September 27, 2016

MAPLE STREET SHELTER
1580 Maple Street
Redwood City, CA
Project No. PC019

Issued on September 27, 2016

Bid Due Date: October 6, 2016

TO ALL PLAN HOLDERS:

The following Addendum No. 6 to the above referenced project shall be included in the project Plans and Specifications.

A. GENERAL:

Item 1: Women's Correctional Facility (Jail) Demo

a. The existing Women's Correctional Facility shall be demolished. Note that utility services for the existing adjacent Modular building are connected to Jail utilities or are attached to the jail building. Disconnect and safe off per plumbing and electrical drawings. Reconnect the Modular building power and gas service after the Jail building demolition. See plumbing and electrical drawings.

b. Electrical power for the Shelter building originates from the main switchboard serving the jail. **Shelter power shall remain in operation at all times during the jail building demolition.** See electrical drawings.

c. A Hazardous Materials Survey has been completed for the Women's Correctional Facility that is to be demolished and was added to the project scope per Addendum #5. Hazardous material abatement at the Shelter (see previously provided Shelter report) and the Jail is to be included in the project. The survey is attached for the contractor's reference.

d. Unless otherwise noted, **ALL** items including but not limited to casework, equipment, furnishings, bunks, mattresses, exercise equipment, roof mounted HVAC, exhaust fans, boilers, water heaters, solar water heating panels, ground mounted hot water storage tank and associated piping and any other remaining materials inside or outside of the building shall be demolished, off hauled and disposed of by the Contractor.

e. Maintain structures or utilities noted on the drawings.

f. Demolish all structures or utilities noted on the drawings.

g. Demolish noted existing concrete slabs on grade, and concrete foundations. Cut existing wood piles approximately 3'-0" below existing finish floor level. Backfill all removing structural elements with Class II aggregate base rock compacted to 90%. See also original building drawings for reference

h. Underground utilities to be demolished shall be disconnected 5' +/- beyond the building perimeter and capped. Under slab plumbing shall be excavated, removed and disposed of. Backfill excavations with Class II aggregate base rock compacted to 90%.

i. Install storm drainage, grade site to drain, and hydro-seed. See civil drawings.

Addendum No.6

Maple Street Shelter

B. SPECIFICATIONS

Item 1: Substitution Requests

A product substitution request was submitted for:

a. Polystyrene foam board slab insulation specified in Section 03300, 2.2, L. The product is not required. Delete from the project.
b. VIPER Vaporcheck II, 15-mil Class A Vapor barrier is an acceptable substitution. Submit during project as typically required.

Item 2: Windows

a. Window W4 shall be a 20 minute rated hollow metal frame and glazing.
b. Refer to Aluminum Window specification Section 08520, 2.03 A: Exterior aluminum window finish shall be the one color option per paragraph A.
   DELETE: paragraph B that indicates a dual color option

Item 3: Folding Partition

a. Refer to Folding Partition specification Section 10650, 2.01 B: Partition shall be a bi-parting, meeting at the center of the opening, Series 2000 accordion partition with an estimated 20 STC rating. Provide Type 15 track attached to steel stud framed drop wall per detail with side extension to provide ceiling tile protection from the partition top sweep strips.

Item 4: Stainless Steel Studs

a. Refer to specifications Section 05400, Cold Formed Metal Framing, Sheets A-7.1 Stud Sizes and Sheet S-2.2 Ceiling Framing. DELETE Reference to Stainless Steel Studs at Shower and Toilet Room cores. PROVIDE: galvanized G-90 metal studs in the specified sizes.

C. Drawings, Reissued and on County's Website:

Item 1:

The following sheets have been revised and are clouded with the current revision delta and date

a. T-0.1 Title Sheet – added or revised sheets noted
b. SU-1 Topographic Survey
c. A-1.2 Site, Phasing & Demolition Plan
d. A-1.5 Site Details
e. A-1.5.1 – ADA Ramp Details
f. A-2.0 Demo Plan Shelter
g. A-2.1 Main Floor Plan
h. A-2.2 Pet Kennel Plan
i. A-2.4 Roof Plan
j. A-4.1 Building Sections
k. A-5.1 ADA Toilet Rooms
l. A-5.2 ADA Toilet Rooms
m. A-5.4 Staff Toilets
n. A-6.1 Reflected Ceiling Plan
o. A-6.3 Interior Elevations
p. A-7.2 Details
q. A-7.5 Window and Door Details

r. A-7.8 ADA Details
s. A-8.1 Door and Window Schedules
t. Entire Civil Set is reissued
u. M2.1-Rev4
v. P0.1-Rev4
w. P2.1 - Rev4
x. P2.4 - Rev4
y. P3.7-Rev4
z. P3.8-Rev4
aa. JDP-1-Rev4
bb. JDP-2-Rev4.
cc. E0.1A-Rev4
dd. E0.1B-Rev4.
ee. E2.1D-Rev4
ff. E3.2-Rev4
gg. E4.1-Rev4
hh. E4.2-Rev4
ii. E4.4-Rev4
jj. E4.5-Rev4
kk. E4.6-Rev4.
ll. SE2-Rev4
mm. JDE-1-Rev4

Item 2: Existing Women's Correctional Center Demolition
Per Addendum #5**,** the existing Women's Correctional Center, on the same site and adjacent to the Shelter building, shall be demolished under this contract with all demolished materials to be off hauled or recycled per jurisdictional requirements.

See attached revised Site Demolition Plan, Civil Grading/Drainage and Utility Plans and original building drawings for reference:

a. A-1.2 Site, Phasing and Demolition Plan
b. C-3.2 Grading & Drainage Plan
c. C-4.2 Utility Plan

Marked up original building drawings for reference

d. JD -2.7 Jail Demo Existing Foundation
e. JD-2.7.1 Jail Demo- Existing Foundation Details
f. JD-2.7.2 Jail Demo – Precast Panels and CMU Walls
g. JD-2.8 Jail Demo – First Floor
h. JD-2.9 Jail Demo – 2nd Floor and Sections
i. JD-2.10 Jail Demo – Exterior Elevations
j. JD-2.11 Jail Demo – Upper Roof Plan, Panel and Steel Details
k. JD-2.12 Jail Demo – Miscellaneous Structural Wall Sections and Details
l. JDP-1 Rev4 Jail Demo- Site Plumbing
m. JDP-2 Rev4 Jail Demo – Building Plumbing
n. JDE-1 Rev4 Jail Demo – Site Electrical

Demolish all structures shown on site plan Sheet A-1.2, remove the existing floor slab, and existing wood piles to 3' below the existing finish floor and grade the site to drain. See also additional building

drawings, a hazardous material survey and site grading information will be forthcoming.

Notice of Intent (NOI) and SWPPP requirements will be included.
The building site perimeter and interior will be accessible on the non-mandatory walk through date noted above.

Item 2: See Sheet S-2.4 Roof Framing Plan.
REVISE Detail cut B/S-2 at line 7 between lines G and I to B/S-3.7

D. Landscape Irrigation Drawings/Specifications, NOT Reissued:
Item 1:
Refer to Landscape drawings and landscape specifications:

DELETE requirement to provide provision for future connection of the irrigation system to future provided recycled water.

Maintain requirement for future connection of recycled water to the facility toilets and laundry.

Questions regarding this project should be directed to Department of Public Works, 555 County Center, 5th Floor, Redwood City, California, 94063-1065 (Project Manager is Johnny Chiem, jchiem@smcgov.org, 650-599-1349)

Confirmation of Receipt

This form must be returned with your proposal or received by proposal due date

Addendum No. 6

MAPLE STREET SHELTER
1580 Maple Street
Redwood City, CA
Project No. PC019

Department of Public Works
555 County Center, 5th Floor
Redwood City, CA 94063

This is to confirm that **Addendum No. 6 issued on** _____ has been received and that all information contained in the addendum has been incorporated into the Contractor's proposal.

By Contractors:

_____
Company Name

_____
Authorized Signature

_____
Print Name

_____
Date

VISTA ENVIRONMENTAL CONSULTING

Pre-Renovation Hazardous Materials Survey
Former Women's Jail
1590 Maple Street, Redwood City, California

Prepared for:

Department of Public Works
555 County Center, 5th Floor
Redwood City, CA 94063

Prepared By:
Vista Environmental Consulting
2984 Teagarden Street
San Leandro, CA 94577

September 19, 2016
Project No. 161101005

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EXECUTIVE SUMMARY

Vista Environmental Consulting (Vista) performed a pre-renovation hazardous materials survey at the Former Women's Jail located at 1590 Maple Street, Redwood City, California. The survey was performed to identify and sample accessible suspect asbestos-containing materials, to identify representative building components for the presence of lead-containing surface coatings/lead-based paints (LCSC/LBP), and to visually identify universal waste (UW) materials, polychlorinated biphenyls (PCBs) containing devices, devices which contain ozone depleting chemicals, and other hazardous materials. Vista performed the hazardous materials survey on August 31 and September 12, 2016.

The results of the survey indicate that the following hazardous materials may be in the path of construction areas:

Asbestos

MATERIAL	DESCRIPTION	LOCATION	ESTIMATED QUANTITY
Mastic	Black	Associated with Vinyl Floor Tiles: 12" White with Gray Streaks, Marble Pattern, Room 24, Room 38 (Stair Landings)	319 SF
Mechanical Curb/Parapet	White	Upper Roof	3,428 SF
Vinyl Sheet Flooring	Tan, Pebble Pattern	Rooms (31, 32, 43, 44, 57, 58. 59, 60, 61, 62, 64, 72, 84, 85)	348 SF
Vinyl Floor Tile/Mastic	12" Beige, Gray with White Streaks/Black	Room 26 & Stair Landings	180 SF
Mastic	Yellow & Black	Associated with 12" Beige Vinyl Floor Tile with Brown & White Streak, Under Cabinets Rooms (22, 52)	363 SF
Vinyl Floor Tile/Mastic	12" White with Tan Streaks/Black	Room 38	158 SF

Lead-Based Paint and Materials

Room	Component	Substrate	Color	Condition	Pb	Units
Site	Floor Stripe	Asphalt	Yellow	Deteriorated	3.9	mg/cm^2

All remaining tested materials had lead concentrations in excess of the level for compliance with trigger activities, as defined in 8 CCR 1532.1.

Devices with Potential Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Other Non-Incandescent Lamps	Universal Waste	366
Light Fixture Ballasts	Polychlorinated Biphenyls	183
HVAC	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	13
Exit Signs	Low-Level Radiation	10

The Hazardous Materials Summary, Asbestos Sampling Inventory, Sample and Asbestos-Containing Materials Location Drawings, Asbestos Analytical Reports, Lead XRF Sequential Reports, and Photo Documentation can be found in *Appendix A – Building Data.*

The documents found in the appendices are not stand-alone documents and should not be separated from this report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification.

All asbestos (>0.1%) disturbance and/or removal operations must be conducted by a Cal/OSHA registered and State licensed asbestos removal contractor. All disturbance and/or abatement operations should be under the direction of a California Certified Asbestos Consultant.

Should the removal of identified regulated asbestos-containing materials (RACM) involve at least 100 square feet or 100 linear feet per project site, per year, then notification to the Bay Area Air Quality Management District (BAAQMD) and Cal/OSHA must be accomplished prior to the initiation of such activities.

All activities involving potential and identified lead-containing surfaces should be conducted in accordance with California Health & Safety Code sections 17920.10 and 10525, 10525.7, Title 8, California Code of Regulations (CCR), Section 1532.1.

In addition, all removal activities involving identified lead-based paints (LBP) must be conducted in accordance with Title 17, CCR, Division 1, Chapter 8, Sections 35001 through 36100, which prescribes the use of California Department of Public Health (CDPH) certified workers, work practices, and other requirements.

Written notification to Cal/OSHA must be accomplished should LBP activities involve equal to or more than 100 square feet or 100 linear feet of removal in accordance with the requirements of 8 CCR 1532.1.

Any welding, cutting or heating of metal surfaces containing surface coatings should be conducted in accordance with 8 CCR 1537 Welding, Cutting, and Heating of Coated Metals, which require surfaces covered with toxic preservatives, and in enclosed areas, be stripped of all toxic coatings for a distance of at least 4 inches, in all directions, from the area of heat application prior to the initiation of such heat application, or 8 CCR 1536 Ventilation Requirements for Welding, Brazing, and Cutting.

All potential and identified Universal Waste materials (UW) impacted by the work should be removed and recycled or disposed of in accordance with the UW guidelines established by the DTSC, as stated in 22 CCR Sections 66261.9 and 66273.1 thru 66273.90.

All ballasts must be visually inspected prior to disposal to determine if they contain PCB's. Those ballasts marked No PCB's or PCB Free can be considered as such and should be treated as UW - electronic waste. All PCB-containing devices, including, but not limited to ballasts should be removed or have the oils removed and properly handled, collected, stored, transported and recycled or disposed of by an approved recycling or disposal facility in accordance with the requirements of Title 22 CCR 67426.1.

Devices containing ozone depleting chemicals, petroleum or other chemicals, should be collected, waste characterized, disposed or recycled according to California rules and regulations.

Should materials similar to those identified in this report, or if other forms of suspect hazardous materials are encountered, contractors should be instructed to immediately cease work activities which may initiate an exposure episode, and notify the appropriate management personnel.

Report prepared for the Company by:

Christopher R. Burns
Senior Project Manager
CAC #92-0224
LRCIA #663

1.0 INTRODUCTION

Vista Environmental Consulting (Vista) performed a pre-renovation hazardous materials survey at the Former Women's Jail located at 1590 Maple Street, Redwood City, California for the County of San Mateo.

The purpose of this survey was to identify hazardous building materials so they could be removed; waste characterized, and properly disposed of prior to being impacted by renovation activities. The data provided in this report can assist all parties involved in this project make informed decisions regarding regulatory compliance and the health and safety of their employees. This survey included the following:

- Visible and accessible suspect asbestos-containing materials (ACM) were assessed and sampled to determine asbestos content.
- Representative painted and coated building components were assessed and categorized based upon standard selective demolition practices and sampled for lead content which can be used in preliminary waste stream characterization estimates and for worker protection.
- Visible and accessible materials commonly found in buildings which can potentially have hazardous properties that are regulated were assessed, but not sampled. These materials include, but are not limited to:
    - Universal Waste (UW) materials, such as non-incandescent lamps, batteries, mercury-containing devices, and electronic waste; Batteries include, but are not limited to those found in exit signs, emergency lights, fire alarm systems, and back-up power systems.
    - Polychlorinated biphenyls (PCBs) containing devices such as lamp ballasts, wet-type transformers, and hydraulic systems;
    - Devices which may contain ozone depleting chemicals, such as Heating, Ventilation and Air Conditioning (HVAC) systems, refrigerators, freezers, fire suppression systems and water coolers/fountains.

2.0 METHODOLOGY

Vista performed the hazardous materials survey on August 31 and September 12, 2016. The asbestos survey was conducted by Christopher Elliott a State of California Division of

Occupational Safety and Health (Cal/OSHA) Certified Asbestos Consultant (CAC #16-5606). The lead screening survey was conducted by Christopher Elliott, who has a Lead-Related Construction Certificate as an Inspector/Assessor (LRCIA #18373) issued by the State of California Department of Public Health (CDPH). Luis Rocha assisted on the survey.

The survey was not intrusive in nature, and did not include access of areas and sampling of materials which would have required demolition or large scale destructive testing. Roof sampling was performed using 3" stainless steel cores down to the first hard substrate. Vista's intent was to perform a thorough survey and made a good faith effort to access all building materials down to the structural components and/or interstitial spaces.

Quantities and locations are based upon areas that were accessed. Materials similar to those in this report may be present in areas which were not accessed.

Different types of fire doors were checked as part of this survey, however not all doors were checked, and/or sampled. Vista recommends that all doors are checked prior to demolition for suspect asbestos-containing materials not addressed in this report.

Sub-surface areas were not included as part of this survey, hence no excavation was conducted to discover buried asbestos utility piping concealed below the surface. The project site was not assessed for the presence of Naturally Occurring Asbestos in the soil.

2.1 *Asbestos*

The asbestos survey was performed generally in accordance with the AHERA protocol (40 CFR Part 763, Subpart E). Visual identification was performed by assessing visible and accessible structural, architectural, and mechanical components for the presence of suspect ACM at the Project Site.

This ACM survey was conducted in the following manner:

- Suspect ACM was categorized into homogeneous materials. A homogeneous material is defined as being a surfacing material, thermal system insulation, or miscellaneous material which is uniform in color and texture. It may also be additionally subcategorized using the date of installation, when available.

- A sampling scheme was developed based upon the location and quantity of the suspect homogeneous ACM. A rough order of magnitude estimate of each suspect homogenous ACM was calculated and recorded for future reference. A sampling scheme, including a specific number of samples per suspect homogeneous ACM, was calculated prior to sampling.
- Sampling guidelines established by the United States Environmental Protection Agency (USEPA) were utilized for sampling each suspected homogeneous ACM. Methods described in Appendix K of 8 California Code of Regulation (CCR) 1529 were utilized in the collection of each suspect homogeneous ACM sample.
- Trained California asbestos certified personnel, using appropriate sampling tools and leak-tight closable bags, collected building materials that were suspected to contain ACM.
- Each suspect ACM sample was collected and sealed in its container and appropriately labeled with a unique sample identification number and recorded on an asbestos bulk sampling log. Each log contains a chain-of-custody to assure the proper transition of the samples from Vista to the analytical laboratory.
- Sampling tools were decontaminated, by using a clean wet cloth, between the collection of each suspect sample to prevent the possibility of cross contamination of subsequent suspect ACM samples.

Suspect ACM samples were delivered, under proper chain-of-custody protocol, to Forensic Analytical Laboratories in Hayward, California. Forensic Analytical Laboratories is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP) and the California Environmental Laboratory Accreditation Program (Cal-ELAP). The samples were submitted for analysis by Polarized Light Microscopy (PLM) utilizing dispersion staining techniques in accordance with the EPA's "Method for the Determination of Asbestos in Bulk Building Materials" U.S. EPA/600/R-93/116, Visual Area Estimate, dated July 1993 and adopted by the NVLAP as Test Method Code 18/A01.

2.2 *Lead*

Vista's lead construction screening survey used an X-Ray Fluorescence (XRF) direct read spectrum analyzer device to take readings of representative painted and coated surfaces for evaluation of lead levels for worker health and safety and preliminary waste characterization prior to construction activities. The device was a NITON Corporation XRF Spectrum Analyzer,

Model XLp- 300 A. This device is a solid-state detector optimized for lead L-shell and K-shell X-ray detection and uses a 40 mCi 109Cd (1,480 Mbq) isotope for an excitation source.

This survey was a limited screening of paint for the purpose of characterizing the lead content in paint and coatings likely to be disturbed during work activities. For this purpose, XRF analysis was used to screen for lead levels and provides results that are generally representative of typical conditions but are not inclusive of all painted/coated surfaces present at the Project Site. This survey was not a surface by surface inspection as outlined in the U.S. Department of Housing and Urban Development (HUD) Guidelines For the Evaluation and Control of Lead-Based Paint Hazards in Housing pursuant to Title X of the Housing and Community Development Act of 1992. This analytical data can be helpful in evaluation of lead-related environmental risks in general, but cannot be used to calculate worker exposures and is not a substitute for employee exposure monitoring or waste stream sampling.

Lead-Based Paint (LBP) is defined by CDPH as any paint containing lead levels exceeding 0.5 wt % (or 5000 parts per million) via paint chip sampling or 1.0 milligrams per centimeter squared (mg/cm^2) or greater via X-Ray Fluorescence (XRF) direct read instrument sampling. Cal/OSHA rules apply to "any detectable concentration of lead" without a specified detection level.

2.3 *Devices with Potential Hazardous Materials*

Devices with potential hazardous materials were visually identified during the survey walk through and their quantities were estimated and recorded. No attempt was made to disassemble devices or sample suspect materials within the devices. For example, fluorescent light fixtures must be presumed to contain Universal Waste lamps and ballasts which contain PCB oil or are electronic waste, pending removal and disassembly of each unit to determine explicit product specific information that proves otherwise.

3.0 RESULTS

Asbestos

The results of the bulk samples collected for asbestos, and analyzed by PLM Methodology, indicate that detectable concentrations of asbestos are present in the following materials:

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	BAAQMD CATEGORY	ESTIMATED QUANTITY
G	Mastic	Black	Associated with Vinyl Floor Tiles: 12" White with Gray Streaks, Marble Pattern, Room 24 & Room 38 (Stair Landings)	Class II	Category I - Non-Friable	319 SF
L	Mechanical Curb	White	Upper Roof	Class II	Category I - Non-Friable	3,428 SF
U	Vinyl Sheet Flooring	Tan, Pebble Pattern	Rooms (31, 32, 43, 44, 57, 58. 59, 60, 61, 62, 64, 72, 84, 85)	Class II	Friable (RACM when Removed)	348 SF
W	Vinyl Floor Tile/Mastic	12" Beige, Gray with White Streaks/Black	Room 26 & Stair Landings	Class II	Category I - Non-Friable	180 SF
EE	Mastic	Yellow & Black, Under Cabinets	Associated with 12" Beige Vinyl Floor Tile with Brown & White Streak, Under Cabinets Rooms (22 &52)	Class II	Category I - Non-Friable	363 SF
FF	Vinyl Floor Tile/Mastic	12" White with Tan Streaks/Black	Room 38	Class II	Category I - Non-Friable	158 SF

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification.

The results of the bulk samples collected for asbestos, and analyzed by PLM, indicate that detectable concentrations of asbestos ***are not present*** in the following tested materials:

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint/Texture Coat	Beige/White, Exterior	7
B	Texture Coat	White, Concrete Walls, Interior	7
C	Plaster	White, Walls & Ceilings	7

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
D	Roof	Black, Tar & Gravel	3
E	Parapet/Mechanical Curb	White, Vinyl	3
F	Sealant	Gray Gooey, HVAC, Roof	2
H	Sealant	White, Flashing	2
I	Mastic	Gray & Black, Patches & Penetrations	3
J	Asphalt Pads	White, Asphalt	2
K	Mastic	White, Gray, Black Residual Conduit	2
M	Sealant	White, Black Solar Panel, Roof Penetrations	2
N	Mastic	Yellow, Carpet, Tan & Blue Line Pattern	3
O	Sealant	Black, HVAC, Exterior	2
P	Acoustic Ceiling Tile/Mastic	12"x12" Pinhole, Large Fissure/Brown	3
Q	Wallboard/Joint Compound	White/White	3
R	Texture Coat	White, Medium, Mechanical Room	3
S	Basecove/Mastic	4" Dark Blue/Brown	2
T	Mastic	Yellow, Stair Tread	2
V	Plaster	Gray, Ceiling, Smooth	7
X	Basecove/Mastic	4" Brown/Yellow	2
Y	Grout/Mortar	White/Gray, 4" Ceramic Walls	1
Z	Grout/Mortar	Gray/Gray, 1" White Ceramic Floors	1
AA	Insulation	Yellow, Fire Door	3
BB	Acoustic Ceiling Panel	2'x4' Pinhole Fissure	2

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
CC	Seam Tape	White, HVAC	2
DD	Vinyl Floor Tile/Mastic	12" Gray with White Streaks/Yellow	2
GG	Coating	Gray with Blue Specks, Concrete Floor	2
HH	Insulation	White, Hanger	3
II	Jacket/Insulation	White/Yellow, 6" OD pipes	1
JJ	Paint	Red, Concrete Floor	1
KK	Vinyl Floor Tile/Mastic	12" Plain Gray/Black	1
LL	Mastic	Black, Sink	1
MM	Vinyl Floor Tile/Mastic	12" Beige with White & Gray Streaks/Yellow	2
NN	Acoustic Ceiling Tile/Mastic	12" Pinhole Small Fissure/Yellow	1
OO	Paint/Concrete Masonry Unit/Mortar	White/Gray/Light Gray	3
PP	Paint	White, Concrete Floor	1
QQ	Matt/Mastic	Brown/Brown	1
RR	Foundation	Gray	2
SS	Paint/Concrete	Beige/Gray	2
TT	Basecove/Mastic	4" Gray/Brown	1
UU	Grout/Mortar	Gray/Gray, 1" Blue Ceramic Floors	1
VV	Grout/Mastic	White/White, 5" Beige Ceramic Walls	1
WW	Mastic	Beige, Wall Panel	1
XX	Concrete	Gray, Sidewalk	2
YY	Asphalt	Black, Parking	3

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
ZZ	Mastic	Yellow Carpet, Brown with Dark Brown Line Pattern	2
A3	Mastic	White, Carpet, Gray with Multi-Color Line Pattern	2
B3	Paint/Insulation/Mastic	White/Yellow/Brown & Black, Exterior Water Tank	3
C3	Jacketing/Insulation	Silver/Brown & Black, Exterior	1
D3	Sealant	Gray, Sidewalk, Building Wall, Exterior	2
E3	Sealant	Beige, Sidewalk, Building Wall, Exterior	1
F3	Vapor Barrier	Black, Flower Bed	2

Lead

For purposes of this survey, and in accordance with Title 8 CCR, Section 1532.1 (8 CCR 1532.1) and Title 17 of the California Code of Regulations, Section 35001 et. seq. the bulk paint chip sample or XRF direct read instrument results were interpreted as follows:

1. Lead-based paints (LBP) are present when bulk paint chip samples revealed a lead concentration of ≥5,000 milligrams per kilogram (mg/kg) or parts per million (ppm), 0.5% by weight (wt%) or ≥1.0 milligrams per centimeter squared (mg/cm^2) via XRF direct read instrument sampling.
2. Lead-containing paints are present when bulk paint chip samples revealed a lead concentration of <5,000 mg/kg or 0.5 wt% down to the analytical detection limit of the analysis, or <1.0 milligrams per centimeter squared (mg/cm^2) via XRF direct read instrument sampling down to the detection limit of the device.
3. "No lead detected" was determined when bulk paint chip samples did not reveal a lead concentration above the analytical detection limit of the laboratory or direct read instrument sampling device.

The bulk paint chip results or XRF direct read instrument results for this survey indicated that the following building components and respective surface coatings have lead concentrations defining them as LBP, in accordance with Title 17 of the California Code of Regulations, Section 35001 et. seq.:

Room	Component	Substrate	Color	Condition	Pb	Units
Site	Floor Stripe	Asphalt	Yellow	Deteriorated	3.9	mg/cm^2

All remaining tested materials had lead concentrations in excess of the level for compliance with trigger activities, as defined in 8 CCR 1532.1.

Devices with Potential Hazardous Materials

Devices with potential hazardous materials were identified at the Project Site. They are as follows:

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Other Non-Incandescent Lamps	Universal Waste	366
Light Fixture Ballasts	Polychlorinated Biphenyls	183
HVAC	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	13
Exit Signs	Low-Level Radiation	10

The Hazardous Materials Summary, Asbestos Sampling Inventory, Sample and Asbestos-Containing Materials Location Drawings, Asbestos Analytical Reports, and the Lead XRF Sequential Reports, and Photo Documentation can be found in *Appendix A – Building Data.*

The documents found in the appendices are not stand-alone documents and should not be separated from this report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical

means", non-standard or other aggressive removal/demolition techniques may result in a different classification.

4.0 RECOMMENDATIONS

4.1 *Asbestos*

Work performed during any activities that disturb the asbestos-containing materials identified in this report must be done in compliance with the most recent edition of all applicable federal, state, and local regulations, standards, and codes governing abatement, transport, and disposal of asbestos-containing materials. These include, but are not limited to, the following:

- CCR, Title 8, Chapter 3.2, Subchapter 2, Article 2.5 - Registration Asbestos-Related Work Sections 341.6 through 341.14
- CCR, Title 8, Section 1529 - Asbestos in the Construction Industry
- BAAQMD Regulation 11, Hazardous Pollutants, Rule 2, Asbestos Demolition, Renovation and Manufacturing
- 40 CFR Part 763 - Subpart E, Asbestos Containing Materials in Schools (AHERA)

Materials encountered in the building that are not part of this report must be properly sampled for the content of asbestos or assumed to be asbestos containing prior to any disturbance.

Prior to activities which will disturb identified or assumed asbestos, a Cal/OSHA registered and California licensed asbestos contractor must be utilized for abatement of asbestos that will be impacted. Vista recommends that all abatement operations be conducted under the direction of a California Certified Asbestos Consultant.

4.2 *Lead*

At present there is no state or federal regulation requiring mandatory lead removal or abatement prior to disturbance of building materials with identified lead paint or coatings. However, there are applicable Cal/OSHA worker protection and training requirements, Cal/EPA waste disposal requirements, CDPH requirements for public and residential buildings, and SB 460 lead hazard regulations that apply to lead-related construction activities, abatement activities and their associated wastes. The following is a brief discussion and summary of applicable regulatory requirements:

♦ **Cal/OSHA:** Title 8, California Code of Regulation (CCR), Section 1532.1 (8 CCR 1532.1) governs occupational exposure to lead. This regulation requires that prior to initiation of certain activities, referred to as "trigger tasks", workers must be trained, medically evaluated, and properly fitted with respiratory protection, and protective clothing until statistically reliable personal eight-hour time weighted average (TWA) results indicate lead exposure levels below the Personal Exposure Limit (PEL) for each unique task which disturbs lead-based and lead-containing coatings. This process is known as a Negative Exposure Assessment or NEA.

If the result of the exposure assessment is above the Action Level (AL) additional monitoring is required and if the result is above the PEL additional exposure monitoring, worker protection (including respirator protection and PPE), training and medical requirements apply. However even where the NEA criteria is met, certain hazard communication training and work practice controls still apply where lead is disturbed. "Trigger tasks" are tasks that are assumed to exceed the PEL pending an exposure assessment and they encompass the majority of construction activities that disturb surface coatings. Examples of "trigger" tasks range from manual paint scraping as a lower expected exposure up to hot work and abrasive blasting as the highest expected exposures, and include any non-listed task that the employer determines may potentially expose employees to lead levels above the AL.

"OSHA does not consider any method that relies solely on the analysis of bulk materials or surface content of lead (or other toxic material) to be acceptable for safely predicting employee exposure to airborne contaminates. Without air monitoring results or without the benefit of historical or objective data (including air sampling which clearly demonstrates that the employee can not be exposed above the action level during any process, operation, or activity) the analysis of bulk or surface samples can not be used to determine employee exposure."- OSHA Standard Interpretation May 8, 2000.

OSHA states that these rules apply to "any detectable concentration of lead" without a specified detection level. Due to the Consumer Product Safety Commission currently allowing paint to contain up to 90 parts per million (ppm) or 0.009 wt% of lead, the variation of lead content due to aging and weathering, and the variation of detection limits associated with analysis of bulk materials, such as paint chips and surface content analysis via XRF, it is recommended that all painted or coated surfaces be treated as potentially containing lead. Positive analytical results by either method can be used to indicate that detectable lead is present but negative results cannot be interpreted as conclusively demonstrating the absence of lead.

Analytical data from analysis of bulk materials or surface content of lead can be helpful in evaluation of lead-related environmental risks in general but cannot be used to calculate worker exposures and are not a substitute for employee exposure monitoring. As a result of the above, any employee that works around potential lead-based or lead-containing coatings must have HAZCOM training and personal exposure air monitoring is additionally required for employees that disturb such coatings. Significant additional certification, notification, and work practices are required for materials found to be lead-based.

Any welding, cutting or heating of metal surfaces containing surface coatings should be conducted in accordance with 29 CFR 1926.354 and 8 CCR 1537. These regulations require surfaces covered with toxic preservatives, and in enclosed areas, be stripped of all toxic coatings for a distance of at least 4 inches, in all directions, from the area of heat application prior to the initiation of such heat application.

♦ **Cal/EPA** through the Division of Toxic Substance Control (DTSC) regulates disposal of lead hazardous waste (22 CCR Division 4.5, Minimum Standards for Management of Hazardous and Extremely Hazardous Wastes). DTSC has issued guidance indicating that architectural debris with intact lead paint is normally expected to be handled as general construction waste. However, waste stream segregation and analysis is still required for all lead painted or coated debris regardless if the paint or coating is intact on a building component or not. The resulting wastes may be hazardous under California and federal RCRA standards for lead and therefore require proper handling, packaging, labeling, and transportation under a proper manifest to a permitted hazardous waste storage, treatment and disposal facility.

♦ **CDPH**: The Department of Public Health (CDPH) has specific requirements (Title 17 Sections 35001 thru 36100 et. al.) for hazard assessment and work in public or residential structures in regards to lead-based paint. These regulations require special certifications, work practices, and notification for such activities.

♦ **Senate Bill 460 (SB 460)**: An act to amend Section 1941.1 of the Civil Code, and to amend Sections 17961, 17980, and 124130 of, and to add Sections 17920.10, 105251, 105252, 105253, 105254, 105255, 105256, and 105257 to, the Health and Safety Code, relating to lead abatement. This bill allows for fines and criminal penalties to be levied on any person who is found to have performed lead abatement without containment or created a measurable "lead hazard" based

upon current CDPH standards. A "lead hazard" means deteriorated lead-based paint, lead contaminated dust, lead contaminated soil, disturbing lead-based paint or presumed lead-based paint without containment, or any other nuisance which may result in persistent and quantifiable lead exposure.

Vista recommends that all parties that come into contact with paint and dust that has detectable lead content follow all applicable federal, state and local regulations relating to employee health and safety and proper disposal of generated wastes.

4.3 *Devices with Potential Hazardous Materials*

All potential and identified Universal Waste materials (UW) impacted by the work should be removed and recycled or disposed of in accordance with the UW guidelines established by the DTSC, as stated in 22 CCR Sections 66261.9 and 66273.1 thru 66273.90.

Vista's limited visual survey indicated that light fixtures with ballasts that may contain PCB oil are present. However, due to the limited nature of the random spot checks, Vista recommends that all ballasts be visually inspected prior to disposal to determine if they contain PCB's. Those ballasts marked No PCB's or PCB Free can be considered as such as should be treated as UW - electronic waste.

All PCB-containing devices, including, but not limited to ballasts and transformers should be removed or have the oils removed and properly handled, collected, stored, transported and recycled or disposed of by an approved recycling or disposal facility in accordance with the requirements of Title 22 CCR 67426.1.

Devices containing ozone depleting chemicals, petroleum or other chemicals, should be collected, waste characterized, disposed or recycled according to California rules and regulations.

If the underground storage tanks still exist, the closure of them requires following all local rules and regulations for obtaining permits, performing soil sampling and obtaining closure certification on the tank system.

All personnel who perform hazardous materials work must be trained and qualified to do so. They must also follow the most current OSHA regulations including 29 CFR 1910.120 and 8 CCR 5192, Hazardous Waste Operations and Emergency Response, as well as other applicable federal, state and local laws and regulations.

5.0 LIMITATIONS & EXCLUSIONS

The following areas were not accessible for sampling during the survey field work:

- Storage Closets Rooms 97
- Mechanical Pipe Chases

Quantities and locations are based upon areas that were accessed. Materials similar those in this report may be present in areas which were not accessed. Because of this, Vista recommends including line item pricing, allowances, and/or additive/deductive wording to bid sheets for unforeseen conditions.

All material quantities reported herein are rough order of magnitude estimates and should not be used for bidding purposes. All contractors are responsible for accurately determining quantities and locations of materials identified in this report.

The survey performed was limited to representative rooms/areas, was not intrusive in nature, and did not include access of areas and sampling of materials which would have required demolition or large scale destructive testing. Roof sampling was performed using 3" stainless steel cores down to the first hard substrate. Vista made a good faith effort based on accepted industry standards to access all areas in order to assess their potential for having hazardous materials, however additional materials such as vinyl floor tile or mastics may be under carpeting or other floor finishes and fixtures, piping and elbows may be inside wall or ceiling voids, and additional layers of roofing may be under the first layer of hard substrate. Vista made every effort to access these areas, however because non-destructive techniques had to be employed since staff were still using the buildings, not all interstitial spaces could be accessed.

Respectfully Submitted,
Vista Environmental Consulting

Reviewed and Approved

Christopher R. Burns
Senior Project Manager
CAC #92-0224
LRCIA #663

Charles R. Bove
Principal
CAC #92-0160

APPENDIX A - BUILDING DATA

FORMER WOMEN'S JAIL
1590 MAPLE STREET, REDWOOD CITY, CA
HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	BAAQMD CATEGORY	ESTIMATED QUANTITY
G	Mastic	Black	Associated with Vinyl Floor Tiles: 12" White with Gray Streaks, Marble Pattern, Room 24, Room 38 (Stair Landings)	Class II	Category I - Non-Friable	319 SF
L	Mechanical Curb/Parapet	White	Upper Roof	Class II	Category I - Non-Friable	3,428 SF
U	Vinyl Sheet Flooring	Tan, Pebble Pattern	Rooms (31, 32, 43, 44, 57, 58. 59, 60 61, 62, 64, 72, 84, 85)	Class II	Friable (RACM when Removed)	348 SF
W	Vinyl Floor Tile/Mastic	12" Beige, Gray with White Streaks/Black	Room 26 & Stair Landings	Class II	Category I - Non-Friable	180 SF
EE	Mastic	Yellow & Black	Associated with 12" Beige Vinyl Floor Tile with Brown & White Streak, Under Cabinets Rooms (22, 52)	Class II	Category I - Non-Friable	363 SF
FF	Vinyl Floor Tile/Mastic	12" White with Tan Streaks/Black	Room 38	Class II	Category I - Non-Friable	158 SF

Lead-Based Paint and Materials

Room	Component	Substrate	Color	Condition	Pb	Units
Site	Floor Stripe	Asphalt	Yellow	Deteriorated	3.9	mg/cm^2

All remaining tested materials had lead concentrations in excess of the level for compliance with trigger activities, as defined in 8 CCR 1532.1.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Other Non-Incandescent Lamps	Universal Waste	366
Light Fixture Ballasts	Polychlorinated Biphenyls	183

FORMER WOMEN'S JAIL
1590 MAPLE STREET, REDWOOD CITY, CA
HAZARDOUS MATERIALS SUMMARY

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
HVAC	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	13
Exit Signs	Low-Level Radiation	10

FORMER WOMEN'S JAIL
1590 MAPLE STREET, REDWOOD CITY, CA
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint/Texture Coat	Beige/White, Exterior	7
B	Texture Coat	White, Concrete Walls, Interior	7
C	Plaster	White, Walls & Ceilings	7
D	Roof	Black, Tar & Gravel	3
E	Parapet/Mechanical Curb	White, Vinyl	3
F	Sealant	Gray Gooey, HVAC, Roof	2
G	Vinyl Floor Tile/Mastic	12" White with Gray Streaks, Marble Pattern/Black	2
H	Sealant	White, Flashing	2
I	Mastic	Gray & Black, Patches & Penetrations	3
J	Asphalt Pads	White, Asphalt	2
K	Mastic	White, Gray, Black Residual Conduit	2
L	Mechanical Curb/Parapet	White, Asphalt, Upper Roof	1
M	Sealant	White, Black Solar Panel, Roof Penetrations	2
N	Mastic	Yellow, Carpet, Tan & Blue Line Pattern	3
O	Sealant	Black, HVAC, Exterior	2
P	Acoustic Ceiling Tile/Mastic	12"x12" Pinhole, Large Fissure/Brown	3
Q	Wallboard/Joint Compound	White/White	3
R	Texture Coat	White, Medium, Mechanical Room	3
S	Basecove/Mastic	4" Dark Blue/Brown	2
T	Mastic	Yellow, Stair Tread	2
U	Vinyl Sheet Flooring	Tan, Pebble Pattern	2

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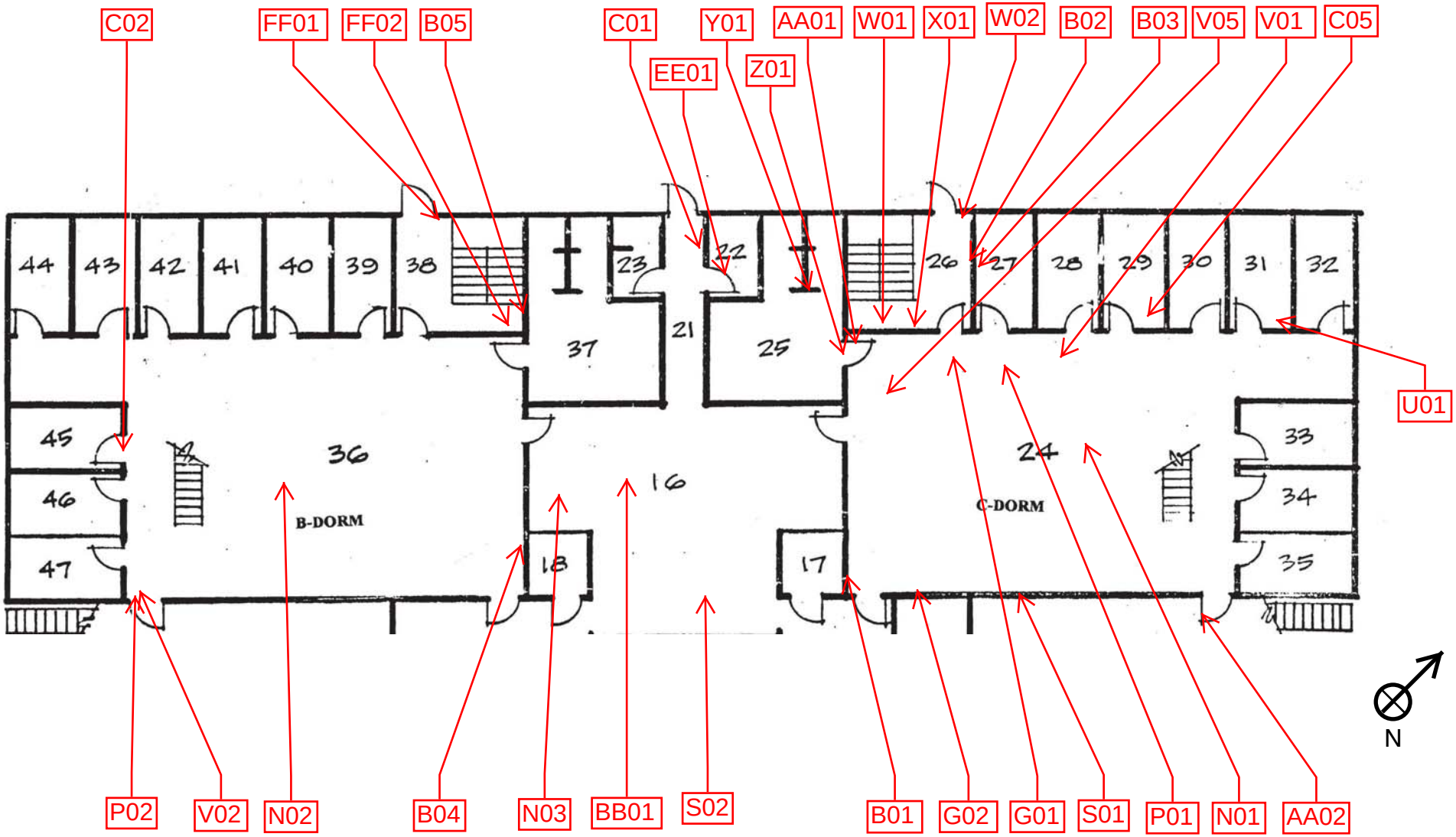
FORMER WOMEN'S JAIL
1590 MAPLE STREET, REDWOOD CITY, CA
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
V	Plaster	Gray, Ceiling, Smooth	7
W	Vinyl Floor Tile/Mastic	12" Beige, Gray with White Streaks/Black	2
X	Basecove/Mastic	4" Brown/Yellow	2
Y	Grout/Mortar	White/Gray, 4" Ceramic Walls	1
Z	Grout/Mortar	Gray/Gray, 1" White Ceramic Floors	1
AA	Insulation	Yellow, Fire Door	3
BB	Acoustic Ceiling Panel	2'x4' Pinhole Fissure	2
CC	Seam Tape	White, HVAC	2
DD	Vinyl Floor Tile/Mastic	12" Gray with White Streaks/Yellow	2
EE	Vinyl Floor Tile/Mastic	12" Beige with Brown & White Streaks/ Yellow & Black, Under Cabinets	2
FF	Vinyl Floor Tile/Mastic	12" White with Tan Streaks/Black	2
GG	Coating	Gray with Blue Specks, Concrete Floor	2
HH	Insulation	White, Hanger	3
II	Jacket/Insulation	White/Yellow, 6" OD pipes	1
JJ	Paint	Red, Concrete Floor	1
KK	Vinyl Floor Tile/Mastic	12" Plain Gray/Black	1
LL	Mastic	Black, Sink	1
MM	Vinyl Floor Tile/Mastic	12" Beige with White & Gray Streaks/Yellow	2
NN	Acoustic Ceiling Tile/Mastic	12" Pinhole Small Fissure/Yellow	1
OO	Paint/Concrete Masonry Unit/Mortar	White/Gray/Light Gray	3
PP	Paint	White, Concrete Floor	1

FORMER WOMEN'S JAIL
1590 MAPLE STREET, REDWOOD CITY, CA
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
QQ	Matt/Mastic	Brown/Brown	1
RR	Foundation	Gray	2
SS	Paint/Concrete	Beige/Gray	2
TT	Basecove/Mastic	4" Gray/Brown	1
UU	Grout/Mortar	Gray/Gray, 1" Blue Ceramic Floors	1
VV	Grout/Mastic	White/White, 5" Beige Ceramic Walls	1
WW	Mastic	Beige, Wall Panel	1
XX	Concrete	Gray, Sidewalk	2
YY	Asphalt	Black, Parking	3
ZZ	Mastic	Yellow Carpet, Brown with Dark Brown Line Pattern	2
A3	Mastic	White, Carpet, Gray with Multi-Color Line Pattern	2
B3	Paint/Insulation/Mastic	White/Yellow/Brown & Black, Exterior Water Tank	3
C3	Jacketing/Insulation	Silver/Brown & Black, Exterior	1
D3	Sealant	Gray, Sidewalk, Building Wall, Exterior	2
E3	Sealant	Beige, Sidewalk, Building Wall, Exterior	1
F3	Vapor Barrier	Black, Flower Bed	2



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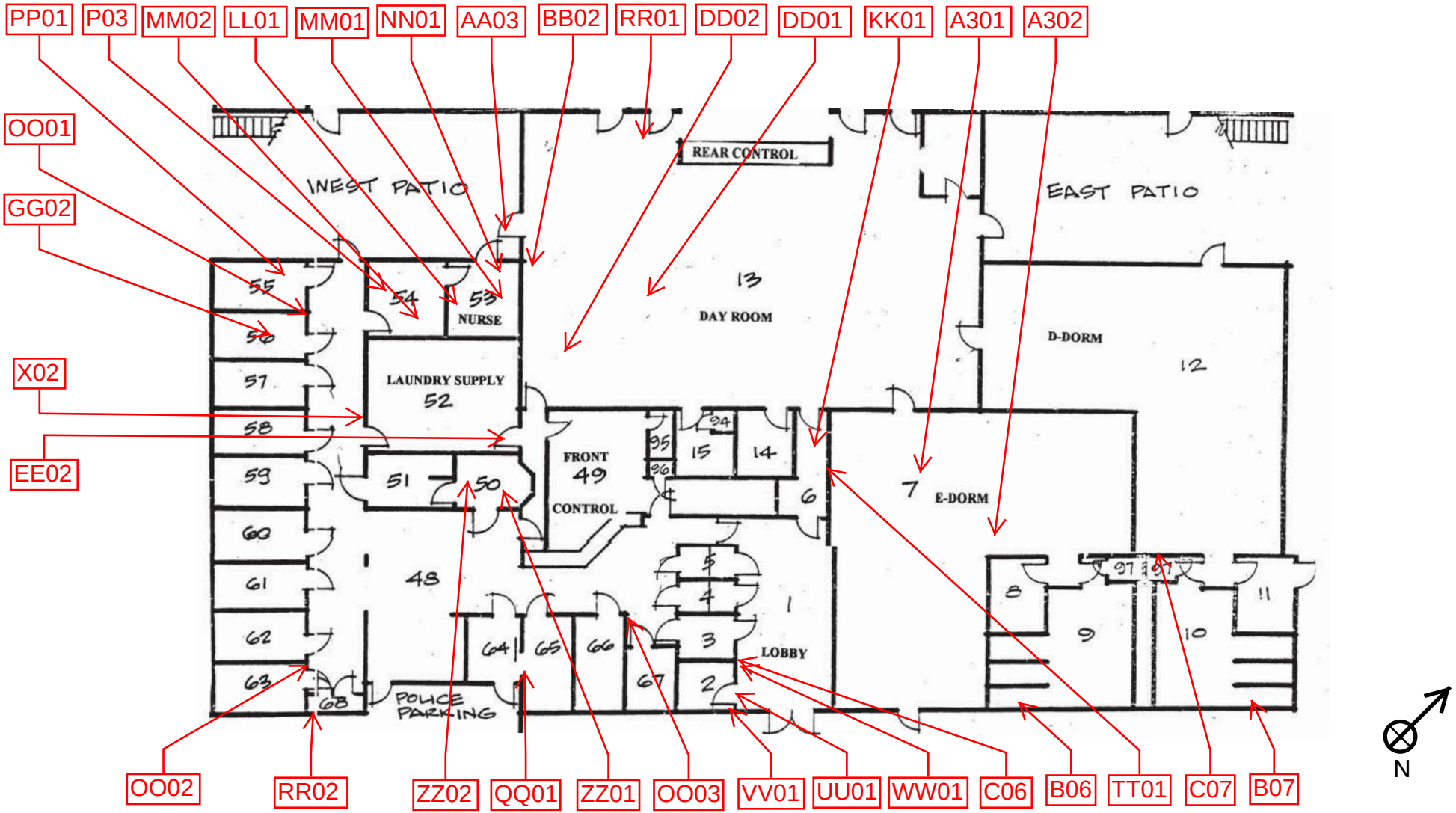
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE
1590 Maple Street, Redwood City, CA

SHEET TITLE
1st Floor North Section Sample Location Chart

SCALE:
DRAWN BY:
CHECKED BY:
PROJECT No.
DATE:
DRAWING No.

FIGURE



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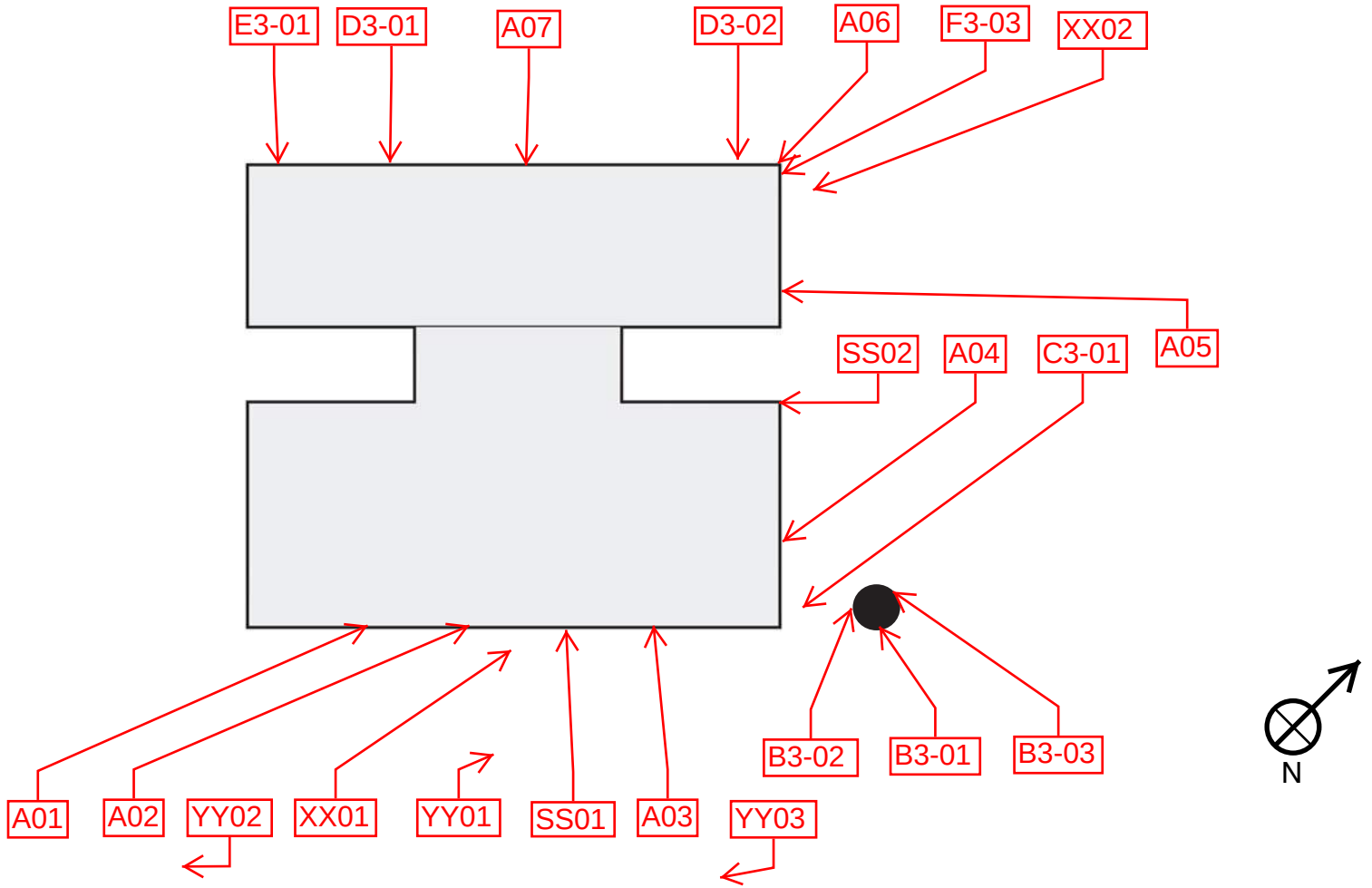
PROJECT TITLE
1590 Maple Street, Redwood City, CA

SHEET TITLE
1st Floor South Section Sample Location Chart

SCALE:
DRAWN BY:
CHECKED BY:
PROJECT No.
DATE:
DRAWING No.

FIGURE



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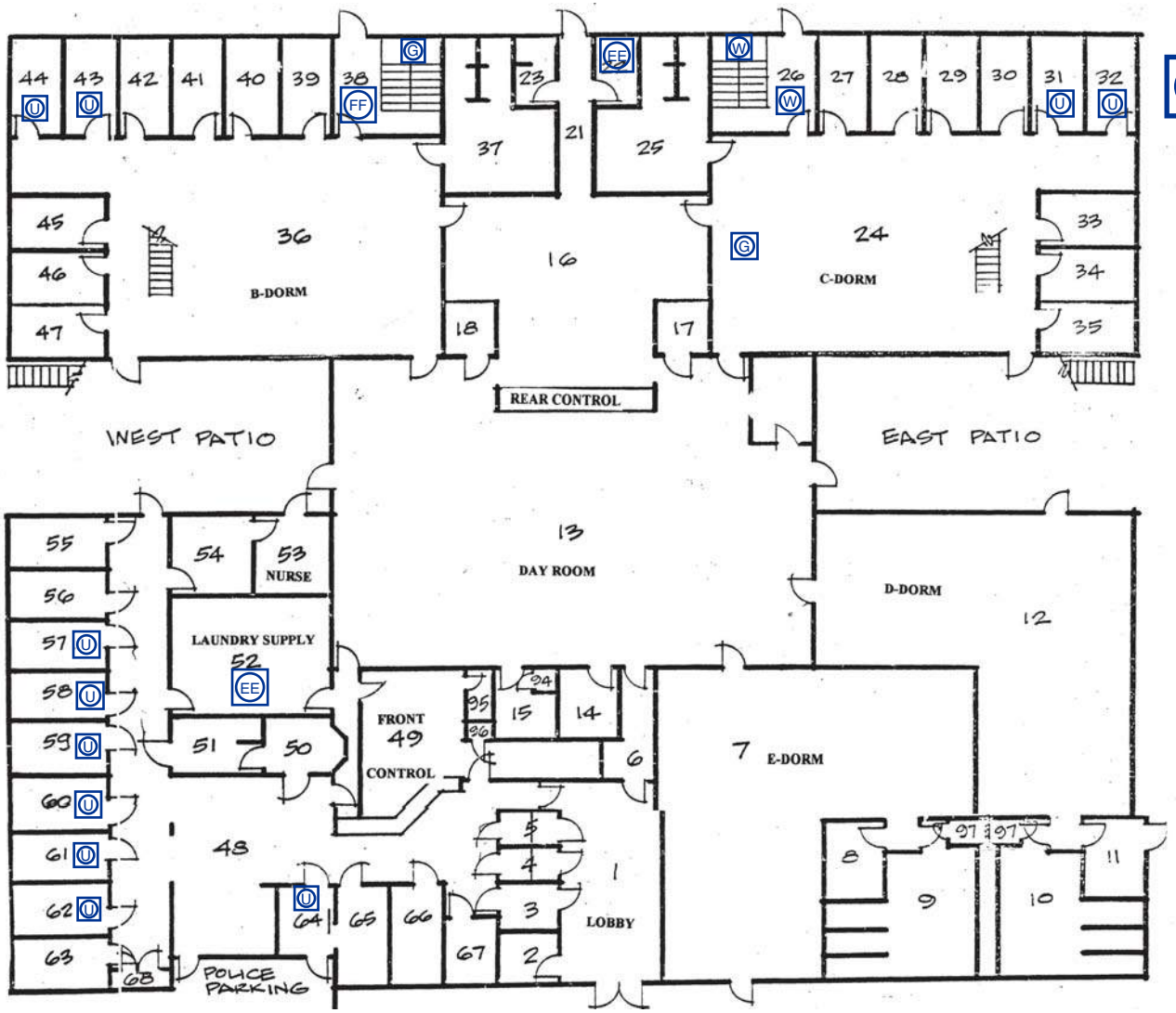
PROJECT TITLE
1590 Maple Street, Redwood City, CA

SHEET TITLE
1st Floor Exterior Sample Location Chart

SCALE:
DRAWN BY:
CHECKED BY:
PROJECT No.
DATE:
DRAWING No.

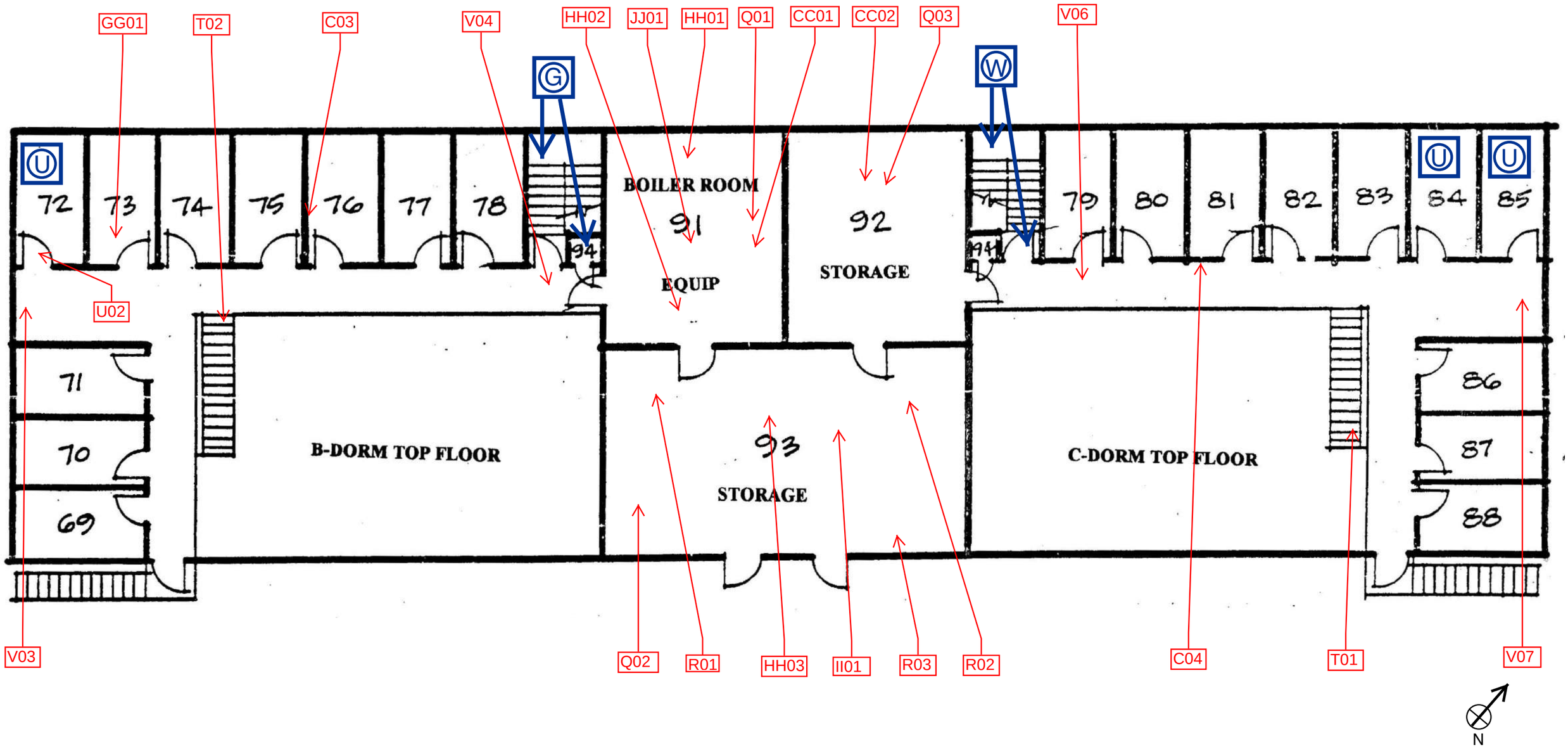
FIGURE



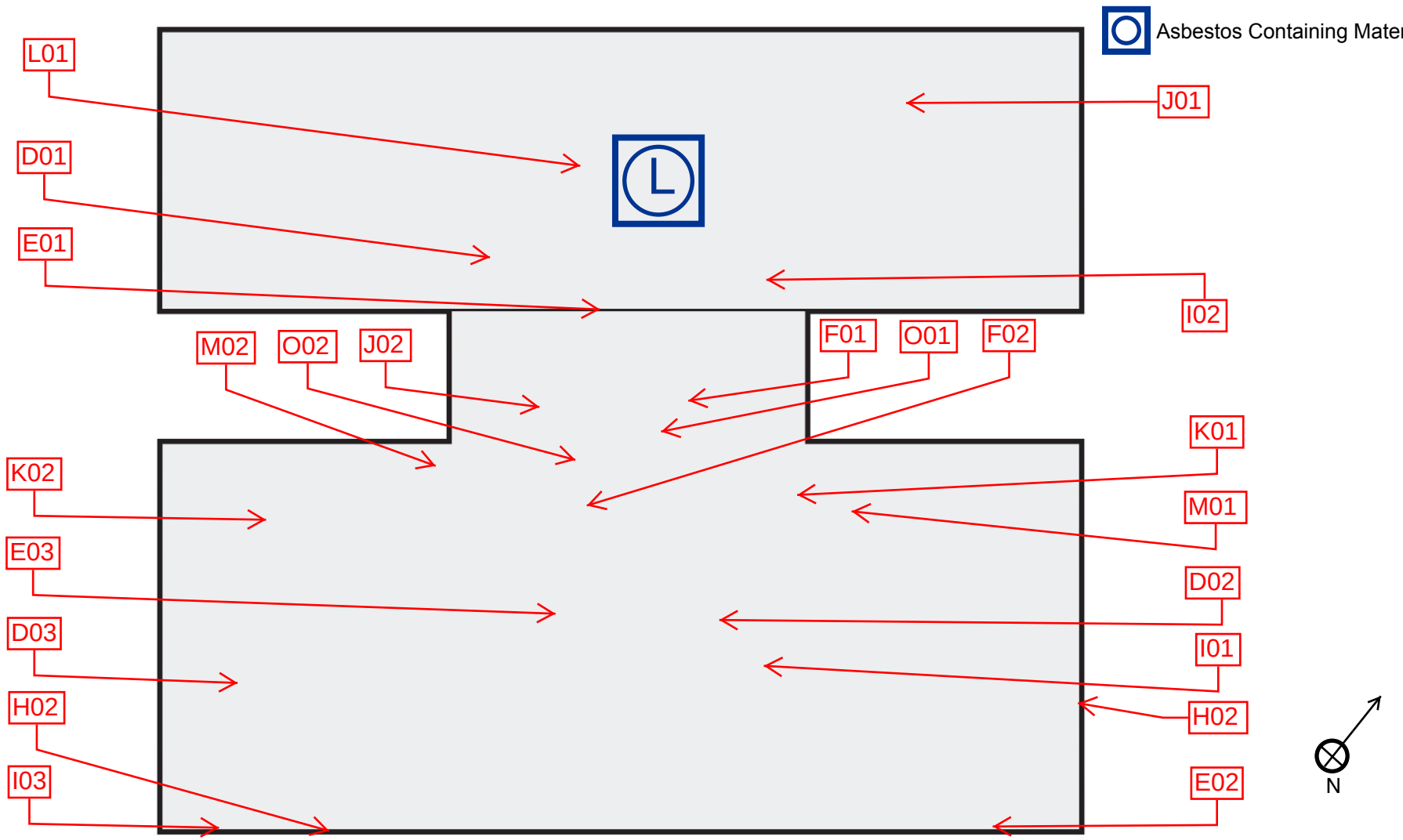
_Asbestos Containing Materials

VISTA ENVIRONMENTAL CONSULTING www.vista-env.com 2984 TEAGARDEN STREET SAN LEANDRO, CA 94577 510-346-8860		PROJECT TITLE 1590 Maple Street, Redwood City, CA	SHEET TITLE 1st Floor Material Location Chart	SCALE: DRAWN BY: CHECKED BY: PROJECT No. DATE: DRAWING No.	FIGURE

_Asbestos Containing Materials



VISTA ENVIRONMENTAL CONSULTING www.vista-env.com 2984 TEAGARDEN STREET SAN LEANDRO, CA 94577 510-346-8860		PROJECT TITLE 1590 Maple Street, Redwood City, CA	SHEET TITLE 2nd Floor Material and Sample Location Chart	SCALE: DRAWN BY: CHECKED BY: PROJECT No. DATE: DRAWING No.	FIGURE



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SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE
1590 Maple Street, Redwood City, CA

SHEET TITLE
Roof Material and Sample Location Chart

SCALE:
DRAWN BY:
CHECKED BY:
PROJECT No.
DATE:
DRAWING No.

FIGURE

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B227496
Date Received: 09/06/16
Date Analyzed: 09/07/16
Date Printed: 09/07/16
First Reported: 09/07/16

Job ID/Site: 161101005 - 1590 Maple St., Redwood City, CA 95063

Date(s) Collected: 08/31/2016

FALI Job ID: L1161
Total Samples Submitted: 119
Total Samples Analyzed: 119

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1590-A01	11805538						
Layer: White Texture			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-A02	11805539						
Layer: White Texture			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-A03	11805540						
Layer: White Texture			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-A04	11805541						
Layer: White Texture			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-A05	11805542						
Layer: White Texture			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-A06	11805543						
Layer: White Texture			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Report Number: B227496

Client Name: Vista Environmental Consultants **Date Printed:** 09/07/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1590-A07	11805544						
Layer: White Texture			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-B01	11805545						
Layer: Tan Texture			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-B02	11805546						
Layer: Tan Texture			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-B03	11805547						
Layer: Tan Texture			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-B04	11805548						
Layer: Tan Texture			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-B05	11805549						
Layer: Tan Texture			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-B06	11805550						
Layer: Tan Texture			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-B07	11805551						
Layer: Tan Texture			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1590-C01	11805552						
Layer: Grey Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-C02	11805553						
Layer: Grey Plaster			**ND**				
Layer: Brown Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-C03	11805554						
Layer: Grey Plaster			**ND**				
Layer: Brown Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-C04	11805555						
Layer: Grey Plaster			**ND**				
Layer: Light Grey Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-C05	11805556						
Layer: Grey Plaster			**ND**				
Layer: Light Grey Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-C06	11805557						
Layer: Grey Plaster			**ND**				
Layer: White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-C07	11805558						
Layer: Grey Plaster			**ND**				
Layer: Light Grey Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1590-D01	11805559						
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Yellow Foam			**ND**				
Total Composite Values of Fibrous Components: Cellulose (15 %) Fibrous Glass (5 %)		**Asbestos (ND)**					
1590-D02	11805560						
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Brown Fibrous Material			**ND**				
Layer: Yellow Foam			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (5 %)		**Asbestos (ND)**					
1590-D03	11805561						
Layer: Black Semi-Fibrous Tar			**ND**				
Layer: Yellow Fibrous Material			**ND**				
Layer: Yellow Foam			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (40 %)		**Asbestos (ND)**					
1590-E01	11805562						
Layer: White Coating			**ND**				
Layer: Stones			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Brown Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (40 %) Fibrous Glass (10 %)		**Asbestos (ND)**					
1590-E02	11805563						
Layer: White Coating			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Brown Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (40 %) Fibrous Glass (10 %)		**Asbestos (ND)**					

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Report Number: B227496

Client Name: Vista Environmental Consultants **Date Printed:** 09/07/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1590-E03	11805564						
Layer: White Coating			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Brown Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (40 %) Fibrous Glass (10 %)		**Asbestos (ND)**					
1590-F01	11805565						
Layer: Grey Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-F02	11805566						
Layer: Grey Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-G01	11805567						
Layer: White Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Layer: Black Mastic		Chrysotile	**2 %**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (Trace)**					
1590-G02	11805568						
Layer: White Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-H01	11805569						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-H02	11805570						
Layer: White Non-Fibrous Material			**ND**				
Layer: Grey Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-I01	11805571						
Layer: Black Mastic			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (5 %)		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1590-I02	11805572						
Layer: Black Mastic			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (5 %)		**Asbestos (ND)**					
1590-I03	11805573						
Layer: Black Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-J01	11805574						
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (5 %)		**Asbestos (ND)**					
1590-J02	11805575						
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (5 %)		**Asbestos (ND)**					
1590-K01	11805576						
Layer: Black Mastic			**ND**				
Layer: White Coating			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-K02	11805577						
Layer: Black Mastic			**ND**				
Layer: White Coating			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-L01	11805578						
Layer: Black Tar			**ND**				
Layer: Stones			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt		Chrysotile	**10 %**				
Layer: Black Felt			**ND**				
Total Composite Values of Fibrous Components: Cellulose (45 %) Fibrous Glass (5 %)		**Asbestos (5%)**					
1590-M01	11805579						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-M02	11805580						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1590-N01	11805581						
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Synthetic (Trace)		**Asbestos (ND)**					
1590-N02	11805582						
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Synthetic (Trace)		**Asbestos (ND)**					
1590-N03	11805583						
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Synthetic (Trace)		**Asbestos (ND)**					
1590-O01	11805584						
Layer: Grey Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-O02	11805585						
Layer: Grey Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-P01	11805586						
Layer: Brown Mastic			**ND**				
Layer: Beige Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (35 %) Fibrous Glass (45 %)		**Asbestos (ND)**					
1590-P02	11805587						
Layer: Yellow Mastic			**ND**				
Layer: Beige Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (35 %) Fibrous Glass (45 %)		**Asbestos (ND)**					
1590-P03	11805588						
Layer: Yellow Mastic			**ND**				
Layer: Beige Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (35 %) Fibrous Glass (45 %)		**Asbestos (ND)**					
1590-Q01	11805589						
Layer: White Drywall			**ND**				
Layer: White Joint Compound			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (10 %)		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1590-Q02	11805590						
Layer: White Drywall			**ND**				
Layer: White Joint Compound			**ND**				
Layer: White Tape			**ND**				
Layer: White Joint Compound			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (20 %) Fibrous Glass (10 %)							
1590-Q03	11805591						
Layer: White Drywall			**ND**				
Layer: White Joint Compound			**ND**				
Layer: White Tape			**ND**				
Layer: White Joint Compound			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (20 %) Fibrous Glass (10 %)							
1590-R01	11805592						
Layer: White Drywall			**ND**				
Layer: White Texture			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (20 %) Fibrous Glass (10 %)							
1590-R02	11805593						
Layer: White Drywall			**ND**				
Layer: White Texture			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (20 %) Fibrous Glass (10 %)							
1590-R03	11805594						
Layer: White Drywall			**ND**				
Layer: White Texture			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (20 %) Fibrous Glass (10 %)							
1590-S01	11805595						
Layer: Blue Non-Fibrous Material			**ND**				
Layer: White Mastic			**ND**				
Layer: Paint			**ND**				
Layer: Brown Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-S02	11805596						
Layer: Blue Non-Fibrous Material			**ND**				
Layer: White Mastic			**ND**				
Layer: Paint			**ND**				
Layer: Brown Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1590-T01	11805597						
Layer: Grey Non-Fibrous Material			**ND**				
Layer: Yellow Mastic			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-T02	11805598						
Layer: Blue Non-Fibrous Material			**ND**				
Layer: Yellow Mastic			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-U01	11805599						
Layer: Tan Sheet Flooring			**ND**				
Layer: Fibrous Backing			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (20 %) Fibrous Glass (5 %) Synthetic (10 %)							
1590-U02	11805600						
Layer: Tan Sheet Flooring			**ND**				
Layer: Fibrous Backing		Chrysotile	**70 %**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (25%)**					
Cellulose (5 %)							
1590-V01	11805601						
Layer: Grey Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
1590-V02	11805602						
Layer: Grey Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
1590-V03	11805603						
Layer: Grey Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
1590-V04	11805604						
Layer: Grey Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1590-V05	11805605						
Layer: Beige Fibrous Material			**ND**				
Layer: Grey Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (40 %) Fibrous Glass (30 %)		**Asbestos (ND)**					
1590-V06	11805606						
Layer: Grey Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-V07	11805607						
Layer: Grey Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-W01	11805608						
Layer: Beige Tile		Chrysotile	**2 %**				
Layer: Black Mastic		Chrysotile	**2 %**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (2%)**					
1590-W02	11805609						
Layer: Beige Tile		Chrysotile	**2 %**				
Layer: Black Mastic		Chrysotile	**2 %**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (2%)**					
1590-X01	11805610						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-X02	11805611						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-Y01	11805612						
Layer: White Grout			**ND**				
Layer: Grey Cementitious Material			**ND**				
Layer: Light Grey Cementitious Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1590-Z01	11805613						
Layer: White Ceramic Tile			**ND**				
Layer: Grey Grout			**ND**				
Layer: Grey Mortar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (5 %)		**Asbestos (ND)**					
1590-AA01	11805614						
Layer: Yellow Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (95 %)		**Asbestos (ND)**					
1590-AA02	11805615						
Layer: Yellow Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (95 %)		**Asbestos (ND)**					
1590-AA03	11805616						
Layer: Yellow Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (95 %)		**Asbestos (ND)**					
1590-BB01	11805617						
Layer: Beige Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (70 %) Fibrous Glass (10 %)		**Asbestos (ND)**					
1590-BB02	11805618						
Layer: Beige Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (70 %) Fibrous Glass (10 %)		**Asbestos (ND)**					
1590-CC01	11805619						
Layer: White Tape			**ND**				
Total Composite Values of Fibrous Components: Cellulose (90 %)		**Asbestos (ND)**					
1590-CC02	11805620						
Layer: White Tape			**ND**				
Total Composite Values of Fibrous Components: Cellulose (90 %)		**Asbestos (ND)**					
1590-EE01	11805621						
Layer: Tan Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1590-EE02	11805622						
Layer: Beige Tile			**ND**				
Layer: Black Mastic		Chrysotile	**5 %**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (Trace)**					
1590-DD01	11805623						
Layer: Grey Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-DD02	11805624						
Layer: Grey Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-FF01	11805625						
Layer: White Tile			**ND**				
Layer: Black Mastic		Chrysotile	**2 %**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (Trace)**					
1590-FF02	11805626						
Layer: Off-White Tile		Chrysotile	**Trace**				
Layer: Black Mastic		Chrysotile	**5 %**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (Trace)**					
1590-GG01	11805627						
Layer: Grey Coating			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-GG02	11805628						
Layer: Grey Cementitious Material			**ND**				
Layer: Grey Coating			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-HH01	11805629						
Layer: Tan Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (2 %) Synthetic (5 %)		**Asbestos (ND)**					
1590-HH02	11805630						
Layer: Tan Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (2 %) Synthetic (5 %)		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1590-HH03	11805631						
Layer: White Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (7 %)		**Asbestos (ND)**					
1590-II01	11805632						
Layer: Yellow Fibrous Material			**ND**				
Layer: White Fibrous Material			**ND**				
Layer: Yellow Mastic			**ND**				
Layer: Foil			**ND**				
Total Composite Values of Fibrous Components: Cellulose (5 %) Fibrous Glass (90 %)		**Asbestos (ND)**					
1590-JJ01	11805633						
Layer: Grey Cementitious Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-KK01	11805634						
Layer: Grey Tile			**ND**				
Layer: Black Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-LL01	11805635						
Layer: Black Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-MM01	11805636						
Layer: Beige Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-MM02	11805637						
Layer: Beige Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-NN01	11805638						
Layer: Yellow Mastic			**ND**				
Layer: Beige Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (35 %) Fibrous Glass (45 %)		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1590-OO01	11805639						
Layer: Grey Cementitious Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-OO02	11805640						
Layer: Grey Cementitious Material			**ND**				
Layer: Grey Cementitious Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-OO03	11805641						
Layer: Grey Cementitious Material			**ND**				
Layer: Grey Cementitious Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-PP01	11805642						
Layer: White Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-QQ01	11805643						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Beige Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-RR01	11805644						
Layer: Grey Cementitious Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-RR02	11805645						
Layer: Grey Cementitious Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-SS01	11805646						
Layer: Grey Cementitious Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
1590-SS02	11805647						
Layer: Grey Cementitious Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1590-TT01	11805648						
Layer: Grey Non-Fibrous Material			**ND**				
Layer: Brown Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-UU01	11805649						
Layer: Blue Cementitious Material			**ND**				
Layer: Grey Cementitious Material			**ND**				
Layer: Black Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-VV01	11805650						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-WW01	11805651						
Layer: Grey Cementitious Material			**ND**				
Layer: Paint			**ND**				
Layer: White Skimcoat/Joint Compound			**ND**				
Layer: Paint			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
1590-XX01	11805652						
Layer: Grey Cementitious Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-XX02	11805653						
Layer: Grey Cementitious Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-YY01	11805654						
Layer: Black Cementitious Tar			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
1590-YY02	11805655						
Layer: Black Cementitious Tar			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
1590-YY03	11805656						
Layer: Black Cementitious Tar			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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2984 TEAGARDEN STREET
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ASBESTOS BULK SAMPLE LOG

CLIENT: ~~County of San Mateo~~ DATE: 08/31/16

LOCATION: 1590 Maple St. Redwood City, CA. 94063 PROJECT NUMBER: 161101005

SAMPLED BY: CR CAC OR SST NO: 16-5606

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
1590	A	01	PAINT/ TEXTURE/COAT	BEIGE/WHITE TEXT		
1590	A	02	↓	↓		
1590	A	03	↓	↓		
1590	A	04	↓	↓		
1590	A	05	↓	↓		
1590	A	06	↓	↓		
1590	A	07	↓	↓		
1590	B	01	TEXTURE/COAT	WHITE, INT		
1590	B	02	↓	↓		
1590	B	03	↓	↓		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS: _____

CHAIN OF ~~CUSTODY~~:

1. _____ TRANSFER SIGNATURE Chris Elliott PRINTED NAME _____ DATE/TIME
2. _____ TRANSFER SIGNATURE _____ PRINTED NAME _____ DATE/TIME
3. _____ TRANSFER SIGNATURE _____ PRINTED NAME _____ DATE/TIME

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VISTA ENVIRONMENTAL CONSULTING
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
OFFICE 510.346.8860
FAX 888.653.8889

ASBESTOS BULK SAMPLE LOG

CLIENT: ~~County of San Mateo~~ DATE: 08/31/16

LOCATION: 1590 Maple St. Redwood City, CA. 94063 PROJECT NUMBER: 161101005

SAMPLED BY: CR CAC OR SST NO: 16-56006

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
1590	B	04				
1590	B	05				
1590	B	06				
1590	B	07				
1590	C	01	PLASTER	WHITE, W&C		
1590	C	02				
1590	C	03				
1590	C	04				
1590	C	05				
1590	C	06				

ANALYTICAL METHOD: PLM, ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS: _____

CHAIN OF CUSTODY:

1. _____ (TRANSFER SIGNATURE) Chris Elliott (PRINTED NAME) _____ (DATE/TIME)
2. _____ (TRANSFER SIGNATURE) _____ (PRINTED NAME) _____ (DATE/TIME)
3. _____ (TRANSFER SIGNATURE) _____ (PRINTED NAME) _____ (DATE/TIME)

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FAX 888.653.8889

ASBESTOS BULK SAMPLE LOG

CLIENT: ~~County of San Mateo~~ DATE: 08/31/16

LOCATION: 1590 Maple St. Redwood City, CA. 94063 PROJECT NUMBER: 161101005

SAMPLED BY: CFE CAC OR SST NO: 16-56006

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
1590	C	07	↓	↓		
1590	D	01	ROOF FIELD	BLACK, TAR		
1590	D	02	↓	↓		
1590	D	03	↓	↓		
1590	E	01	PARAPET /MTECH CURB	WHITE, VINYL		
1590	E	02	↓	↓		
1590	E	03	↓	↓		
1590	F	01	SEALANT	GRAY, GOOEY HVAC, EXT		
1590	F	02	↓	↓		
1590	G	01	VFT/MAS	12" WHITE W/ GRAY STREAKS YELLOW		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS: _____

CHAIN OF CUSTODY:

1. _____ (TRANSFER SIGNATURE) Chris Elliott (PRINTED NAME) 08/31/16 (DATE/TIME)
2. _____ (TRANSFER SIGNATURE) _____ (PRINTED NAME) _____ (DATE/TIME)
3. _____ (TRANSFER SIGNATURE) _____ (PRINTED NAME) _____ (DATE/TIME)

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FAX 888.653.8889

ASBESTOS BULK SAMPLE LOG

CLIENT: ~~County of San Mateo~~ DATE: 08/31/16

LOCATION: 1590 Maple St. Redwood City, CA. 94063 PROJECT NUMBER: 161101005

SAMPLED BY: CE CAC OR SST NO: 16-9000

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
1590	G	02	↓	↓		
1590	H	01	SEALANT	WHITE, FLASHING		
1590	H	02	↓	↓		
1590	I	01	MASTIC	GRAY & BLACK, PATCHES		
1590	I	02	↓	↓		
1590	I	03	↓	↓		
1590	J	01	ASPHALT PADS	BLACK, ASPHALT		
1590	J	02	↓	↓		
1590	K	01	MASTIC	WHITE, GRAY, BLACK CONDUIT		
1590	K	02	↓	↓		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS: _____

CHAIN OF CUSTODY:

1. _____ Chris Elliott 08/31/16
TRANSFER SIGNATURE PRINTED NAME DATE/TIME

2. _____ _____ _____
TRANSFER SIGNATURE PRINTED NAME DATE/TIME

3. _____ _____ _____
TRANSFER SIGNATURE PRINTED NAME DATE/TIME

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ASBESTOS BULK SAMPLE LOG

CLIENT: ~~County of San Mateo~~ DATE: 08/31/16

LOCATION: 1590 Maple St. Redwood City, CA. 94063 PROJECT NUMBER: 161101005

SAMPLED BY: CR CAC OR SST No: 16-5606

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
1590	L	01	MTCH CURB	WHITE ASPHALT; UPPER ROOF		
1590	M	01	SEALANT	WHITE, BLACK SOLAR PANEL		
1590	M	02	↓	↓		
1590	N	01	MASTIC	YELLOW, CARPET; TAN, BLUE LINE		
1590	N	02	↓	↓		
1590	N	03	↓	↓		
1590	O	01	SEALANT	BLACK, HVAC TEXT		
1590	O	02	↓	↓		
1590	P	01	ACT	12" x 12" PINHOLE LARGER FISSURE		
1590	P	02	↓	↓		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. _____ (TRANSFER SIGNATURE) Chris Elliott (PRINTED NAME) 08/31/16 (DATE/TIME)
2. _____ (TRANSFER SIGNATURE) _____ (PRINTED NAME) _____ (DATE/TIME)
3. _____ (TRANSFER SIGNATURE) _____ (PRINTED NAME) _____ (DATE/TIME)

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ASBESTOS BULK SAMPLE LOG

CLIENT: ~~County of San Mateo~~ DATE: 08/31/16

LOCATION: 1590 Maple St. Redwood City, CA. 94063 PROJECT NUMBER: 161101005

SAMPLED BY: CR CAC OR SST No: 16-5606

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
1590	P	03	↓	↓		
1590	Q	01	WB/SC	WHITE/WHITE		
1590	Q	02				
1590	Q	03				
1590	R	01	TEXTURE COAT	WHITE, MEDIUM MACH ROOM		
1590	R	02				
1590	R	03				
1590	S	01	BC/MAS	4" DARK BLUE BROWN		
1590	S	02				
1590	T	01	MASTIC	YELLOW, STAIR TREAD		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS: _____

CHAIN OF CUSTODY:

	TRANSFER SIGNATURE	PRINTED NAME	DATE/TIME
1.	[signature]	Chris Elliott	08/31/16
2.			
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ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: County of San Mateo

DATE: 08/31/16

LOCATION: 1590 Maple St. Redwood City, CA. 94063

PROJECT NUMBER: 161101005

SAMPLED BY: CE

CAC OR SST NO: 15-5606

mislabeled

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
1590	T	01	↓	↓		
1590	U	01	VSF	TAN, PEBBLE		
1590	U	02	↓	↓		
1590	V	01	PLASTER	GRAY, SMOOTH, CEILING		
1590	V	02				
1590	V	03				
1590	V	04				
1590	V	05				
1590	V	06				
1590	V	07	↓	↓		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

	TRANSFER SIGNATURE	PRINTED NAME	DATE/TIME
1.	[signature]	Chris Elliott	08/31/16
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ASBESTOS BULK SAMPLE LOG

CLIENT: ~~County of San Mateo~~ DATE: 08/31/16

LOCATION: 1590 Maple St. Redwood City, CA. 94063 PROJECT NUMBER: 161101005

SAMPLED BY: CR CAC OR SST No: 16-5606

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
1590	W	01	VFT/MASTIC	12" BEIGE, GRAY WHITE STREAKS/BLACK		
1590	W	02	↓	↓		
1590	X	01	BC/MAS	4" BROWN/YELLOW		
1590	X	02	↓	↓		
1590	Y	01	GROUT/MORTAR	WHITE/GRAY, 4" TILE		
1590	Z	01	GROUT/MORTAR	GRAY/GRAY, 1" TILE		
1590	AA	01	INSULATION	YELLOW FIRE DOOR		
1590	AA	02	↓	↓		
1590	AA	03	↓	↓		
1590	BB	01	AC?	2'x4' DIAGONAL FISSURE		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. _____ (TRANSFER SIGNATURE) Chris Elliott (PRINTED NAME) 08/31/16 (DATE/TIME)
2. _____ (TRANSFER SIGNATURE) _____ (PRINTED NAME) _____ (DATE/TIME)
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ASBESTOS BULK SAMPLE LOG

CLIENT: ~~County of San Mateo~~ DATE: 08/31/16

LOCATION: 1590 Maple St. Redwood City, CA. 94063 PROJECT NUMBER: 161101005

SAMPLED BY: CR CAC OR SST No: 16-5606

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
1590	BB	02	↓	↓		
1590	CC	01	SEAM TAPE	WHITE, HVAC		
1590	CC	02	↓	↓		
1590	EE	01	VFT/MASTIC	12" BEIGE W/ BROWN WHITE STREAKS	YELLOW & BLACK	
1590	EE	02	↓	↓		
1590	DD	01	VFT/MAS	12" GRAY W/ WHITE STREAK	YELLOW	
1590	DD	02	↓	↓		
1590	FF	01	VFT/MAS	12" WHITE, TAN STREAKS	BLACK	
1590	FF	02	↓	↓		
1590	GG	01	COATING	GRAY, BLUE STREAKS CONCRETE FLOORS		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

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CHAIN OF CUSTODY:

	TRANSFER SIGNATURE	PRINTED NAME	DATE/TIME
1.	[signature]	Chris Elliott	09/31/16
2.			
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ASBESTOS BULK SAMPLE LOG

CLIENT: ~~County of San Mateo~~ DATE: 08/31/16

LOCATION: 1590 Maple St. Redwood City, CA. 94063 PROJECT NUMBER: 161101005

SAMPLED BY: CR CAC OR SST No: 16-5606

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
1590	GG	02	↓	↓		
1590	HH	01	INSULATION	WHITE, HANGER		
1590	HH	02	↓	↓		
1590	HH	03	↓	↓		
1590	II	01	JACKET INSULATION	WHITE/YELLOW 6" OD, RED,		
1590	JJ	01	PAINT	CONCRETE FL		
1590	KK	01	VFT/MAS	12" GRAY/BLACK		
1590	LL	01	MASTIC	BLACK, SINK		
1590	MM	01	VFT/MAS	12" BRICK, WHITE GRAY STREAK/BLACK		
1590	MM	02	↓	↓		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

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QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

	TRANSFER SIGNATURE	PRINTED NAME	DATE/TIME
1.		Chris Elliott	08/31/16
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ASBESTOS BULK SAMPLE LOG

CLIENT: ~~County of San Mateo~~ DATE: 08/31/16

LOCATION: 1590 Maple St. Redwood City, CA. 94063 PROJECT NUMBER: 161101005

SAMPLED BY: CR CAC OR SST NO: 16-5606

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
1590	NN	01	ACT / MASTIC	12" PINHOLE SMALL FISSURE / YELLOW		
1590	OO	01	PAINT/KMU/MORTAR	WHITE/GRAY/GRAY		
1590	OO	02	↓	↓		
1590	OO	03	↓	↓		
1590	PP	01	PAINT, MAST / MAS	WHITE, COVERFLOOR FLOOR BROWN / BROWN		
1590	QQ	01				
1590	RR	01	FOUNDATION	GRAY		
1590	RR	02	↓	↓		
1590	SS	01	PAINT / CONCRETE	BRIGHT / GRAY		
1590	SS	02	↓	↓		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

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ASBESTOS BULK SAMPLE LOG

CLIENT: ~~County of San Mateo~~ DATE: 08/31/16

LOCATION: 1590 Maple St. Redwood City, CA. 94063 PROJECT NUMBER: 161101005

SAMPLED BY: CR CAC OR SST No: 16-5606

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
1590	TT	01	BC/MAS	4" GRAY/BROWN		
1590	UU	01	GROUT/MORTAR	GRAY/GRAY, 1" BLUE TILE		
1590	VV	01	GROUT/MORTAR	WHITE/WHITE, WALL		
1590	WW	01	MASTIC	BRICK, WALL PAINT		
1590	XX	01	CONCRETE	GRAY, SIDEWALK		
1590	XX	02	↓	↓		
1590	YY	01	ASPHALT	BLACK		
1590	YY	02	↓	↓		
1590	YY	03	↓	↓		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

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2. _____ (TRANSFER SIGNATURE) _____ (PRINTED NAME) _____ (DATE/TIME)
3. _____ (TRANSFER SIGNATURE) _____ (PRINTED NAME) _____ (DATE/TIME)

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Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B227797
Date Received: 09/12/16
Date Analyzed: 09/12/16
Date Printed: 09/12/16
First Reported: 09/12/16

Job ID/Site: 161101005 - County of San Mateo, 1590 Maple St., Redwood City, CA 94063

Date(s) Collected: 09/12/2016

FALI Job ID: L1161
Total Samples Submitted: 12
Total Samples Analyzed: 12

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1590-ZZ01	11807936						
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (2 %)		**Asbestos (ND)**					
1590-ZZ02	11807937						
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (2 %)		**Asbestos (ND)**					
1590-A301	11807938						
Layer: Tan Foam			**ND**				
Layer: White Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-A302	11807939						
Layer: Grey Carpet			**ND**				
Layer: Tan Foam			**ND**				
Layer: White Mastic			**ND**				
Total Composite Values of Fibrous Components: Synthetic (45 %)		**Asbestos (ND)**					
1590-B301	11807940						
Layer: Black Non-Fibrous Material			**ND**				
Layer: Yellow Foam			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-B302	11807941						
Layer: Yellow Foam			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

Report Number: B227797

Client Name: Vista Environmental Consultants **Date Printed:** 09/12/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1590-B303	11807942						
Layer: Black Non-Fibrous Material			**ND**				
Layer: Yellow Foam			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-C301	11807943						
Layer: Black Foam			**ND**				
Layer: Tan Fibrous Material			**ND**				
Layer: Silver Foil			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (5 %)							
1590-D301	11807944						
Layer: Grey Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-D302	11807945						
Layer: Grey Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-E301	11807946						
Layer: Beige Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
1590-F301	11807947						
Layer: Black Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
OFFICE 510.346.8860
FAX 888.653.8889

ASBESTOS BULK SAMPLE LOG

CLIENT: ~~County of San Mateo~~ DATE: 9-12-16

LOCATION: 1590 Maple St. Redwood City, CA. 94063 PROJECT NUMBER: 161101005

SAMPLED BY: CE CAC OR SST NO: 16-5606

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
1590	~~ZZ~~	01	mastic	yellow, Brown line pattern		
1590	~~ZZ~~	02	↓	↓		
1590	A3	01	mastic	wt, ~~Scarpet~~ gray multi; color line pattern		
1590	A3	02	↓	↓		
1590	B3	01	Paint/Insulation mastic	wt/yellow/ Brown, Black		
1590	B3	02	↓	↓		
1590	B3	03	↓	↓		
1590	C3	01	Sealant/ insulation	silver, Brown/ Black		
1590	D3	01	Sealant	gray, sidewalk, wall		
1590	D3	02	↓	↓		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: (SAME DAY) 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

	TRANSFER SIGNATURE	PRINTED NAME	DATE/TIME
1.	Chris Elliott	Chris Elliott	9-12-16
2.		S Hollister	SEP 12 2016 DIV C 12:45
3.			

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ASBESTOS BULK SAMPLE LOG

CLIENT: ~~County of San Mateo~~ DATE: 9-12-16

LOCATION: 1590 Maple St. Redwood City, CA. 94063 PROJECT NUMBER: 161101005

SAMPLED BY: CE CAC OR SST NO: 16-5606

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
1590	E3	01	Sealant	Beige, sidewalk, wall		
15	F3	01	VaporBarrier	Black, wall		

12 samples total

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: (SAME DAY) 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

	TRANSFER SIGNATURE	PRINTED NAME	DATE/TIME
1.		Chris Elliott	9-12-16 1203
2.		S. HOLLISTER	SEP 12 2016 @ 12:45
3.			

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Former Women's Jail
1590 Maple St., Redwood City
XRF Sequential Report

Reading No	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC	Units
1		SHUTTER_CAL					5.83	cps
2		SHUTTER_CAL					5.88	cps
3		SHUTTER_CAL					5.96	cps
4		CALIBRATE				Positive	1.3	mg / cm ^2
5		CALIBRATE				Positive	1.2	mg / cm ^2
6		CALIBRATE				Positive	1.1	mg / cm ^2
7	OUTSIDE	WALL	CONCRETE	BEIGE	INTACT	Negative	0	mg / cm ^2
8	OUTSIDE	COLUMN	CONCRETE	BEIGE	INTACT	Negative	0	mg / cm ^2
9	OUTSIDE	WINDOW	METAL	TAN	INTACT	Negative	0.2	mg / cm ^2
10	OUTSIDE	DOWNSPOUT	METAL	BEIGE	INTACT	Negative	0.02	mg / cm ^2
11	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0.3	mg / cm ^2
12	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0.08	mg / cm ^2
13	OUTSIDE	OVERHANG,ENTRY	WOOD	BROWN	DETERIORATED	Negative	0.01	mg / cm ^2
14	OUTSIDE	FENCE	WOOD	GREEN	DETERIORATED	Negative	0	mg / cm ^2
15	OUTSIDE	WALL	STUCCO	BEIGE	INTACT	Negative	0	mg / cm ^2
16	OUTSIDE	DOOR	METAL	BEIGE	INTACT	Negative	0	mg / cm ^2
17	OUTSIDE	GUTTER	METAL	TAN	DETERIORATED	Negative	0.03	mg / cm ^2
18	OUTSIDE	FLASHING	METAL	TAN	DETERIORATED	Negative	0	mg / cm ^2
19	OUTSIDE	DOOR FRAME	METAL	TAN	DETERIORATED	Negative	0	mg / cm ^2
20	OUTSIDE	WALL	CONCRETE	BEIGE	INTACT	Negative	0	mg / cm ^2
21	OUTSIDE	WINDOW	METAL	TAN	INTACT	Negative	0.5	mg / cm ^2
22	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0.13	mg / cm ^2
23	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0.3	mg / cm ^2
24	OUTSIDE	FLASHING	METAL	TAN	INTACT	Negative	0	mg / cm ^2
25	ROOF	PIPE	METAL	WHITE	DETERIORATED	Negative	0	mg / cm ^2
26	ROOF	PARAPET WALL	CONCRETE	WHITE	INTACT	Negative	0	mg / cm ^2
27	ROOF	HVAC	METAL	GREEN	INTACT	Negative	0	mg / cm ^2
28	ROOF	HVAC BASE	METAL	BEIGE	INTACT	Negative	0.06	mg / cm ^2
29	ROOF	PARAPET WALL	METAL	WHITE	INTACT	Negative	0	mg / cm ^2
30	INSIDE	DOOR FRAME	METAL	WHITE	INTACT	Negative	0.2	mg / cm ^2

Former Women's Jail
1590 Maple St., Redwood City
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Reading No	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC	Units
31	INSIDE	DOOR	METAL	BLUE	INTACT	Negative	-0.32	mg / cm ^2
32	INSIDE	WALL	PLASTER	BLUE	INTACT	Negative	0	mg / cm ^2
33	INSIDE	WALL	PLASTER	YELLOW	INTACT	Negative	0	mg / cm ^2
34	INSIDE	WALL	PLASTER	WHITE	INTACT	Negative	0	mg / cm ^2
35	INSIDE	WALL	CERAMIC	BEIGE	INTACT	Negative	0.01	mg / cm ^2
36	INSIDE	WALL	CERAMIC	BLUE	INTACT	Negative	-0.32	mg / cm ^2
37	INSIDE	FLOOR	CERAMIC	BLUE	INTACT	Negative	0.01	mg / cm ^2
38	INSIDE	TRIM	WOOD	WHITE	INTACT	Negative	0	mg / cm ^2
39	INSIDE	WINDOW FRAME	METAL	WHITE	INTACT	Negative	0.14	mg / cm ^2
40	INSIDE	DOOR	METAL	BLUE	INTACT	Negative	-0.09	mg / cm ^2
41	INSIDE	WALL	PLASTER	WHITE	INTACT	Negative	0	mg / cm ^2
42	INSIDE	WINDOW	METAL	WHITE	INTACT	Negative	0.28	mg / cm ^2
43	INSIDE	CEILING	PLASTER	WHITE	INTACT	Negative	0	mg / cm ^2
44	INSIDE	STAIRS	METAL	WHITE	INTACT	Negative	0	mg / cm ^2
45	INSIDE	WALL	WOOD	RED	INTACT	Negative	0	mg / cm ^2
46	INSIDE	DOOR FRAME	METAL	BROWN	INTACT	Negative	0.24	mg / cm ^2
47	INSIDE	DOOR	METAL	BROWN	INTACT	Negative	0.5	mg / cm ^2
48	INSIDE	WALL	CONCRETE	WHITE	INTACT	Negative	0	mg / cm ^2
49	INSIDE	FLOOR	CONCRETE	RED	INTACT	Negative	0	mg / cm ^2
50	INSIDE	WALL	WOOD	WHITE	INTACT	Negative	0.19	mg / cm ^2
51	INSIDE	WALL	PLASTER	BROWN	INTACT	Negative	0	mg / cm ^2
52	INSIDE	CEILING	PLASTER	BROWN	INTACT	Negative	0	mg / cm ^2
53	INSIDE	WALL	CERAMIC	WHITE	INTACT	Negative	0.06	mg / cm ^2
54	INSIDE	FLOOR	CERAMIC	WHITE	INTACT	Negative	0.01	mg / cm ^2
55	INSIDE	DOOR FRAME	METAL	GRAY	INTACT	Negative	0.24	mg / cm ^2
56	INSIDE	DOOR	METAL	GRAY	INTACT	Negative	0.4	mg / cm ^2
57	INSIDE	FLOOR	VINYL	TAN	INTACT	Negative	0	mg / cm ^2
58	INSIDE	CABINET	WOOD	RED	INTACT	Negative	0.01	mg / cm ^2
59	INSIDE	WALL	CONCRETE	WHITE	INTACT	Negative	-0.39	mg / cm ^2
60	INSIDE	LOCKERS	METAL	GRAY	INTACT	Negative	0.02	mg / cm ^2

Former Women's Jail
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Reading No	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC	Units
61	INSIDE	WALL	DRYWALL	WHITE	INTACT	Negative	0	mg / cm ^2
62	INSIDE	LOCKERS	METAL	BEIGE	INTACT	Negative	0	mg / cm ^2
63	INSIDE	LOCKERS	METAL	WHITE	INTACT	Negative	0	mg / cm ^2
64	INSIDE	STALLS	METAL	BEIGE	INTACT	Negative	0	mg / cm ^2
65	INSIDE	STALLS	METAL	RED	INTACT	Negative	0.01	mg / cm ^2
66	INSIDE	BUNK BEDS	METAL	GRAY	INTACT	Negative	0	mg / cm ^2
67	INSIDE	STALLS	METAL	BLACK	INTACT	Negative	0.01	mg / cm ^2
68	INSIDE	WALL	CERAMIC	BEIGE	INTACT	Negative	0.06	mg / cm ^2
69		CALIBRATE				Positive	1.1	mg / cm ^2
70		CALIBRATE				Positive	1.2	mg / cm ^2
72		CALIBRATE				Positive	1	mg / cm ^2
73	INSIDE	BEAM	METAL	RED	INTACT	Negative	0.02	mg / cm ^2
74	INSIDE	BEAM	METAL	RED	INTACT	Negative	0.02	mg / cm ^2
75	SITE	CURB	CONCRETE	RED	INTACT	Negative	0	mg / cm ^2
76	SITE	PARKING CURB	CONCRETE	RED	INTACT	Negative	0.01	mg / cm ^2
77	SITE	POST	METAL	RED	INTACT	Negative	0	mg / cm ^2
78	SITE	BOLLARD	CONCRETE	RED	INTACT	Negative	0.01	mg / cm ^2
79	SITE	BOLLARD	CONCRETE	RED	INTACT	Negative	0.09	mg / cm ^2
80	SITE	FLOOR STRIPE	ASPHALT	RED	INTACT	Negative	0	mg / cm ^2
81	SITE	FLOOR STRIPE	ASPHALT	WHITE	DETERIORATED	Negative	0	mg / cm ^2
82	SITE	FLOOR STRIPE	ASPHALT	WHITE	DETERIORATED	Negative	0.02	mg / cm ^2
83	SITE	FLOOR STRIPE	ASPHALT	YELLOW	DETERIORATED	Positive	3.9	mg / cm ^2
84		CALIBRATE				Positive	1	mg / cm ^2
85		CALIBRATE				Positive	1.3	mg / cm ^2
86		CALIBRATE				Positive	1	mg / cm ^2
87		SHUTTER_CAL					6.53	cps
88		CALIBRATE				Positive	1.1	mg / cm ^2
89		CALIBRATE				Positive	1.2	mg / cm ^2
90		CALIBRATE				Positive	1	mg / cm ^2
91	INSIDE MENS	WALL	CERAMIC	BEIGE	INTACT	Negative	0	mg / cm ^2

Former Women's Jail
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Reading No	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC	Units
92	INSIDE MENS	FLOOR	CERAMIC	RED	INTACT	Negative	0	mg / cm ^2
93	INSIDE MENS	DOOR FRAME	METAL	RED	INTACT	Negative	0	mg / cm ^2
94	INSIDE MENS	DOOR	WOOD	VARNISH	INTACT	Negative	0	mg / cm ^2
95	INSIDE MENS	BASEBOARD	CERAMIC	RED	INTACT	Negative	0	mg / cm ^2
96	INSIDE MENS	SINK	CERAMIC	WHITE	INTACT	Negative	0.01	mg / cm ^2
97	INSIDE MENS	TOILET	CERAMIC	WHITE	INTACT	Negative	0.03	mg / cm ^2
98	INSIDE WOMEN	DOOR FRAME	METAL	RED	INTACT	Negative	0	mg / cm ^2
99	INSIDE WOMEN	DOOR	WOOD	VARNISH	INTACT	Negative	0	mg / cm ^2
100	INSIDE WOMEN	WALL	CERAMIC	BEIGE	INTACT	Negative	0	mg / cm ^2
101	INSIDE WOMEN	BASEBOARD	CERAMIC	RED	INTACT	Negative	0	mg / cm ^2
102	INSIDE WOMEN	FLOOR	CERAMIC	RED	INTACT	Negative	0	mg / cm ^2
103	INSIDE WOMEN	SINK	CERAMIC	WHITE	INTACT	Negative	0	mg / cm ^2
104	INSIDE WOMEN	TOILET	CERAMIC	WHITE	INTACT	Negative	0.04	mg / cm ^2
105		CALIBRATE				Positive	1	mg / cm ^2
106		CALIBRATE				Positive	1.1	mg / cm ^2
107		CALIBRATE				Positive	1	mg / cm ^2

LifeMoves Maple Street Shelter

BUILDING DEPARTMENT RESUBMITTAL 09-23-16

ABBREVIATIONS

Term	Abbreviation
ACCESS DOOR	AD.
ACCESS PANEL	AP.
ACOUSTICAL	ACOUST.
ADHESIVE	ADH.
ADJUSTABLE	ADJ.
AGGREGATE	AGGR.
AIR CONDITIONER	A/C
ALUMINUM	AL.
ANCHOR BOLT	AB.
AREA DRAIN	AD.
ASBESTOS	ASB.
ASBESTOS CEMENT PIPE	ACP.
ASPHALT	ASPH.
ASPHALTIC CONCRETE	AC.
BEGINNING OF VERTICAL CURVE	BVC.
BENCH MARK	BM.
BLOCKING	BLKG.
BOARD	BD.
BOTTOM	BTM.
BUILDING	BLDG.
CABINET	CAB.
CARRIAGE BOLT	CB.
CAST-IN-PLACE	CIP.
CAST-IRON	CI.
CAST IRON PIPE	CIP.
CATCH BASIN	CB.
CEILING	CLG.
CEMENT	CEM.
CENTER	CTR.
CENTER TO CENTER	C TO C.
CERAMIC	CER.
CLEAN OUT TO FLOOR	CTF.
CLEAN OUT TO GRADE	CTG.
CLEAR	CLR.
CLOSET	CLO.
COLUMN	COL.
CONCRETE	CONC.
CONCRETE PIPE, UN-REINFORCED	CP.
CONSTRUCTION	CONST.
CONSTRUCTION JOINT	CJ.
CONTINUOUS	CONT.
CORRUGATED METAL PIPE	CMP.
COUNTER	CTR.
COUNTERSINK	CSK.
CUBIC YARD	CY.
CURB INLET	CI.
DETAIL	DET.
DIAMETER	DIA.
DIMENSION	DIM.
DISPENSER	DISP.
DOOR	DR.
DOUBLE	DBL.
DOUBLE-ACTING	DA.
DOUGLAS FIR	DF.
DOWN	DN.
DOWN SPOUT	DS.
DRAIN	DR.
DRINKING FOUNTAIN	DF.
DRAWING	DWG.
DUCTILE IRON PIPE	DIP.
EACH	EA.
EACH FACE	EF.
EACH WAY	EW.
EDGE OF PAVEMENT	EP.
ELECTRIC	ELEC.
ELECTRIC WATER COOLER	EWC.
ELEVATION	EL.
ELEVATOR	ELEV.
EQUAL	EQ.
EQUIPMENT	EQUIP.
EXISTING	(E)
EXPANSION	EXP.
EXPANSION JOINT	EXP JT.
EXTENSION	EX.
EXTERIOR	EXT.
FACE OF	FO.
FIBER BOARD	FB.
FINISH	FIN.
FIRE ALARM	FA.
FIRE EXTINGUISHER	F.E.
FIRE EXTINGUISHER CABINET	F.E.C.
FIRE TREATED	F.T.
FLASHING	FL.
FLAT BAR	FB.
FLAT HEADED WOOD SCREW	FHWS.
FLOOR	FLR.
FLOOR DRAIN	FD.
FLOORING	FLG.
FLOW LINE	FL.
FLUORESCENT	FLUOR.
FOOTING	FTG.
FOUNDATION	FDN.
GAGE OR GAUGE	GA.
GALVANIZED	GALV.
GALVANIZED IRON	GI.
GLASS	GL.
GLUE-LAM BEAM	GLB.
GRADE	GR.
GROUND	GRND.
GYPSUM	GYP.
HANGER	HGR.
HARDBOARD	HDBD.
HARDWARE	HDW.
HARDWOOD	HDWD.
HEADER	HDR.
HEATER	HTR.
HEIGHT	HT.
HIGH STRENGTH BOLT	HSB.
HOLLOW CORE	HC.
HORIZONTAL	HOR.
HOSE BIB	HB.
HOUR	HR.
INSIDE DIAMETER	ID.
INSULATION	INS.
INTERIOR	INT.
INVERT	INV.
INVERT ELEVATION	IE.
JOINT	JT.
LAMINATE(D)	LAM.
LAVATORY	LAV.
MACHINE	MACH.
MACHINE BOLT	MB.
MAN HOLE	MH.
MANUFACTURE(R)	MFR.
MANUFACTURING	MFG.
MAXIMUM	MAX.
MECHANICAL	MECH.
METAL	MTL.
MINIMUM	MIN.
MOUNTING	MTG.
NEW	(N)
NOMINAL	NOM.
NOT IN CONTRACT	N.I.C.
OBSCURE	OB.
ON CENTER	OC.
OPENING	OPNG.
OPPOSITE	OPP.
OUTSIDE DIAMETER	OD.
OUTSIDE FACE OF STUD	OFS.
OVAL HEADED WOOD SCREW	OHWS.
PAINTED	PTD.
PANIC BAR	PB.
PARTITION	PTN.
PERFORATED	PERF.
PLASTER	PLAS.
PLASTIC	PLSTC.
PLYWOOD	PLY. WD.
POINT	PT.
POLISHED PLATE GLASS	PPGL.
POLYVINYL CHLORIDE	PVC.
POUNDS PER SQUARE FOOT	PSF.
POUNDS PER SQUARE INCH	PSI.
PRE CAST CONCRETE	PC.
PROPERTY	PROP.
PROPERTY LINE	PL.
RADIUS	R.
REDWOOD	RWD.
REFRIGERATOR	REF.
REINFORCED CONCRETE PIPE	RCP.
REINFORCING	REINF.
REQUIRED	REQD.
RESILIENT	RESIL.
RESISTANT	RES.
ROOF DRAIN	RD.
ROOM	RM.
ROUND HEADED WOOD SCREW	RHWS.
RIGHT OF WAY	R.O.W.
SCHEDULE	SCHED.
SECTION	SECT.
SELECT	SEL.
SHEATHING	SHTHG.
SIDING	SDG.
SIMILAR	SIM.
SINGLE ACTING	SA.
SLOPE	S.
SOLID CORE	SC.
SPACE	SP.
SQUARE	SQ.
STAINLESS STEEL	S.S.
STANDARD	STD.
STEEL	STL.
STORAGE	STG.
STRUCTURAL	STR.
SUSPENDED	SUSP.
SYMBOL	SYMB.
SYMMETRICAL	SYMM.
TELEPHONE	TEL.
TEMPERED	TEMP'D.
TERRAZZO	TER.
TIE DOWN	TD.
TONGUE AND GROOVE	T&G.
TOP OF CURB	TC.
TOP OF RAIL	TR.
TYPICAL	TYP.
UNDERGROUND	UG.
UNLESS OTHERWISE NOTED	U.O.N.
URINAL	UR.
VENT THROUGH ROOF	VTR.
VERTICAL	VERT.
VERTICAL CURVE	VC.
VERTICAL GRAIN	VG.
VINYL ASBESTOS TILE	VAT.
VITREOUS CLAY PIPE	VCP.
WAREHOUSE	WHSE.
WATER CLOSET	WC.
WATER HEATER	WH.
WATERPROOF	W.P.
WEAKENED PLANE JOINT	WPJ.
WINDOW	WDW.
WITH	W/.
WITHOUT	W/O.
WOOD	WD.

SYMBOLS LEGEND

- 1 / A5.0 — SECTION NO. / DWG. NO.
- 1 / A4.0 — ELEVATION NO. / DWG. NO.
- 1 / A8.0 — DETAIL NO. / DWG. NO.
- D1 / 2 — DOOR TYPE / HARDWARE GROUP
- W1 — WINDOW TYPE
- 3'-2 1/8" — DIMENSIONS TO FACE OF STUD OR WALL
- 3'-2 1/8" — DIMENSION TO CENTERLINE
- R — REVISION
- ELEVATION — LEVEL LINE CONTROL POINT ON DATUM
- MATCH LINE
- KEYNOTES

MATERIALS LEGEND

- EARTH/ COMPACTED FILL
- ROCK FILL
- CONCRETE
- MASONRY
- STONE
- METAL
- ROUGH STRUCTURAL WOOD
- BLOCKING
- FINISH WOOD
- PLYWOOD
- GYPSUM WALL BOARD
- CERAMIC TILE

PROJECT DATA

CJW Job No. 2015-2801
PROJECT ADDRESS: 1580 Maple Street Redwood City, CA 94062
ASSESSOR'S PARCEL No. 052-532-020

APN:	052-532-020
CITY FILE #:	BLD-2016-01235
JURISDICTION:	SAN MATEO COUNTY
PLANNING ZONE:	XXXXX
CODES:	2013 CALIFORNIA BUILDING STANDARD, ADMINISTRATIVE CODE, TITLE 24, PART 1, TITLE 24 CCR 2013 CALIFORNIA MECHANICAL CODE 2013 CALIFORNIA PLUMBING CODE 2013 CALIFORNIA ELECTRIC CODE 2013 CALIFORNIA ENERGY CODE TITLE 24, CLIMATE ZONE 3 2013 CALIFORNIA GREEN BUILDING CODE 2013 CALIFORNIA FIRE CODE
OCCUPANCY CLASSIFICATION: (MIXED USE)	DINING COMMONS: A-2 ~~STAFF OFFICES: B~~ DORMS: R-2 ~~PET KENNEL: GROUP-U~~ EXISTING CORRECTIONAL: GROUP I-3
CONSTRUCTION TYPE:	SHELTER: TYPE V-B, NO HOUR, FULLY SPRINKLED MODULAR: TYPE V-B, NO HOUR, FULLY SPRINKLED PET KENNEL: TYPE V-B, NON-SPRINKLED CORRECTIONAL: TYPE IA, NON SPRINKLED
EXTERIOR WALLS:	N
OPENINGS TO PROPERTY LINE:	NOT PERMITTED < 5'; PROTECTED < 10'
STRUCTURAL FRAME:	N (1 HOUR AT OCCUPANCY SEPARATIONS)
INTERIOR WALLS & PARTITIONS:	N (1 HOUR & 2 HOUR AT OCCUPANCY SEPARATIONS)
SHAFT ENCLOSURES:	N
FLOOR/CLG ASSSEMBLIES:	N
ROOF/CLG ASEMBLIES:	N
MIXED OCCUPANCY BASIC ALLOWABLE FLOOR AREA PER TABLE 503:	I-3: UNLIMITED AREA A-2: 6,000 s.f.; B: 9,000 s.f.; R-2: 7,000 s.f.
ALLOWABLE INCREASES	PER CBC 506.2: Side yards not taken PER CBC 506.3: Bldg fully sprinkled area increase factor = 3
I-3 OCCUPANCY ALLOWABLE FLOOR AREA:	UNLIMITED
A-2 OCCUPANCY ALLOWABLE FLOOR AREA:	6,000 + 18,000 = 24,000
B OCCUPANCY ALLOWABLE FLOOR AREA:	9,000 + 27,000 = 36,000
R-2 OCCUPANCY ALLOWABLE FLOOR AREA:	7,000 + 21,000 = 28,000
U OCCUPANCY ALLOWABLE FLOOR AREA:	

I-3		A-2		B		R-2		U		
15200 / UNLIMITED	+	1919 / 24,000	+	2557 / 36,000	+	5404 +7961+ 5070 / 28,000	+	723 / 5500	=	?
0		.079	+	.071	+	.657	+	.13		

TOTAL ALLOWABLE FLOOR AREA .93 < or equal to 1, therefore OK

MAX HEIGHT/NUMBER OF STORIES TABLE 503 40' / 1 STORY & 2 STORY

TOTAL LOT AREA	2.00 ACRES (87,125 s.f.)	
SITE COVERAGE	38,100 s.f. (EXISTING CONSTRUCTION)	= 43%
	723 s.f. (NEW CONSTRUCTION)	=0.8%
	38,823 s.f. (TOTAL PROPOSED)	= 43.8%
	MAX. COVERAGE PERMITTED	= 50% (43.8% < 50%, therefore, OK)

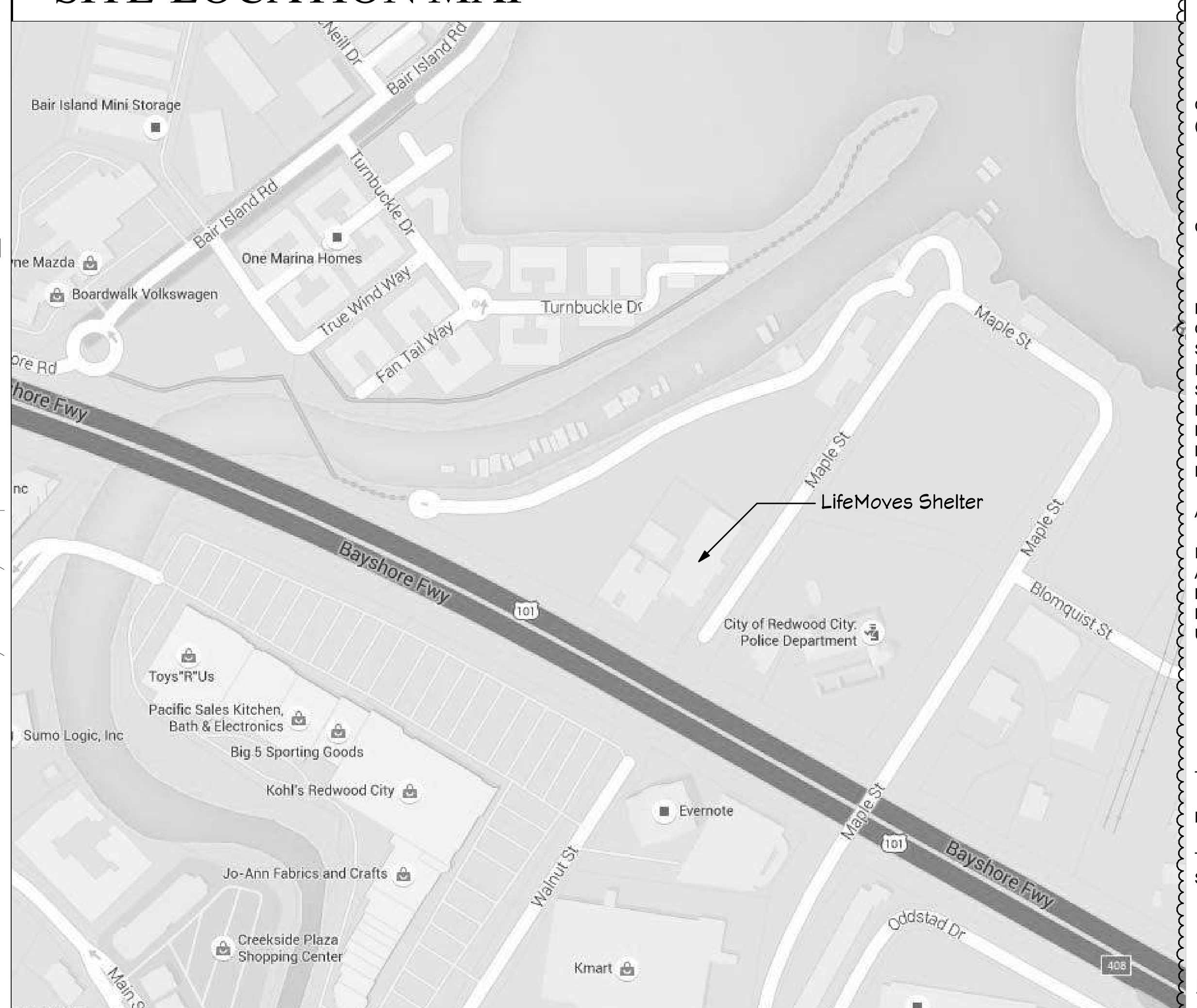
Project Scope:
Seismic upgrade, tenant improvement, project with the complete demolition and renovation of approximately 18,000 SF of interior space utilized by the LifeMoves Maple Street Shelter.

Work includes but is not limited to: Building seismic upgrade for existing exterior concrete tilt panel walls, site work including paving, utilities, grading and drainage, landscaping, irrigation.New and reconfigured interior walls Spray foam insulate the inside face of exterior concrete panels. Provide GWB cover, finish and paint. Spray foam insulate inside attic roof framing. Provide spray on fire retardant compliant with International Fire Proof Technology DC315 fireproof paint for foam tested per UL 1715 and listed WHI No 20947. New floor, wall and ceiling finishes Two new resident toilet cores, dorm rooms, commons area, laundry room, staff offices/conference room, serving kitchen, cooking, serving and refrigeration equipment, Tear off existing BUR and replace with new roof membrane. New HVAC equipment, New supply/sanitary plumbing and plumbing fixtures, Fire sprinklers Upgrade exsiting gas meter and service,New transformer, upgrade electrical service and new generator. New 1,060 s.f. pet kennel for housing pets of shelter residents only. New 433 s.f. Cabana.

The project is two phases of construction wherein approximately one half of the building will be renovated during each phase.

Deferred Approvals to be submitted for separate approval and permit by the appropriate contractor or sub-contractor:
1.Fire Sprinkler System
2. Fire Alarm System
3. ANSUL Fire Suppression System
4. Diesel generator will require a separate fire permit and is a deferred approval item.

SITE LOCATION MAP



VICINITY MAP
N.T.S.

PROJECT TEAM

ARCHITECT: **CJW ARCHITECTURE**
130 PORTOLA ROAD, SUITE A
PORTOLA VALLEY, CA 94028
ATT.: Carter Warr
T: 650-851-9335 F: 650-851-9337
E-MAIL: carter@cjwarchitecture.com

STUCTURAL: **BCA ENGINEERING, INC.**
1300 INDUSTRIAL ROAD, SUITE 1
SAN CARLOS, CA 94070
ATT.: Geoff Clifford, S.E.
T: 650-508-2500 ext.25 F: 650-508-2505
E-MAIL: geoff@bcaeng.net

SURVEYOR: **LEA & BRAZE ENGINEERINGS, INC.**
2495 INDUSTRIAL PARKWAY WEST
HAYWARD, CA 94545
ATT.: Johnny Chiu
T: 510-887-4086 F: 510-887-3019
E-MAIL: jchiu@leabraze.com

M.E.P: **TANTECH ENGINEERS, INC.**
1431 CEDAR STREET
SAN CARLOS, CA 94070
ATT.: John Tankeh
T: 415-269-4283
E-MAIL: tankeh@comcast.net

LANDSCAPE: **RON HODGES LANDSCAPE ARCHITECT**
ATT.: Ron Hodges
T: 707-481-4500
E-MAIL: ronald.hodges@gmail.com

Room	Total Beds/Showers Provided	Min Req'd to be Accessible- 5% or 1 min	Accessible Provided	Percentage
Women Respite	8	.4	8	100%
Men Respite	19	.95	12	63%
Women Emergency	11	1	4	36%
Men Emergency	25	1.25	5	20%
Women Transitional	20	1	20	100%
Men Transitional	50	2.5	50	100%
Women Showers	8	1 roll in req'd	3 roll in	37.5%
Men Showers	9	1 roll in req'd	3 roll in	33%

Notes:
1. Per CBC 11B-224 , Transient Lodging Guest Rooms
2. No individual toilet/ showers providing in the sleeping areas.
3. Mobility Features per 11B-224.2: Roll- in showers provided at centrally located Toilet/Shower cores.
4. Communication features per 11B-224.4: Data outlets provided at18" AFF at 100% of sleeping area. See E2.1
5. Dispersion per 11B-224.5 : Complies
6. Storage Per 11B-225: Bed side tables and under bed storage drawers provided within req'd reach ranges

DRAWING INDEX

GENERAL NOTES

1. CODE COMPLIANCE:
1a. Contract and Construction Documents include: San Mateo County contract for construction. See General Conditions
1b. All work is to be performed in accordance with all governing codes, ordinances, and regulations.

2. UTILITIES AND SITE WORK:
2a. General Contractor shall verify all underground utility locations prior to excavation, trenching, or grading of any kind. General Contractor shall coordinate with applicable utility companies when routing electrical, telephone, cable TV, gas, water, sanitary sewer services, or any other utility.
2b. Construction Documents include the Geotechnical Investigation and procedures. Report By: BAGG Geotechnical
2c. Geotechnical Engineer and Civil Engineer shall coordinate drainage system and approved before backfilling. Drainage and positive flow of entire system shall be tested prior to backfill.
2d. General Contractor shall include Soils Engineer in the inspection of foundations, foundation waterproofing and drainage systems, and all related facets of the job. The Architect requires a signed letter stating that the work is in compliance with the Soils Engineer's recommendations.

3. DIMENSIONS:
3a. No dimensions shall be taken by scaling from the drawings. Contact architect for dimension clarifications or additional dimensions as required. Refer to this Cover Sheet for dimensioning standards. Details and the dimensions provided therein take precedence over general floor plans, elevations, and sections.
3b. Verify all dimensions on the job site prior to ordering or manufacturing.
3c. Dimensions noted "clear" must be accurately maintained, and shall not vary more than +-1/8" without written instruction from the Architect. Dimension marked +- mean a tolerance not greater nor smaller than 2" from indicated dimension, u.o.n. verify field dimensions exceeding tolerance with the Architect, and secure Architect's approval.

4. DISCREPANCIES:
4a. In case of any discrepancy in the contract documents, consult the Architect before proceeding.

5. GENERAL CONTRACTOR RESPONSIBILITIES:
5a. General Contractor shall be responsible for coordination and execution of the work shown or implied in the construction documents. General Contractor is responsible for all construction means, methods,
5b. General Contractor shall coordinate all facets of work and all trades involved to avoid conflict in the location, installation, and construction of all items of work as indicated on the construction documents. If any work is to be installed by the Owner directly, allowances for such work must be made. Coordinate with Architect.
5c. General Contractor shall review all Contract and Construction Documents; Architectural Drawings include reflected ceiling, finish, electrical, lighting, and mechanical plans; and all schedules prior to pouring concrete and prior to framing. Coordinate locations of shafts, electrical wiring/conduit, HVAC ductwork, and light fixtures with locations of foundations and framing. It is imperative that locations of framing members do not conflict with locations of recessed light fixtures.
5e. The installer of each major unit of work is required to inspect the substrate and conditions to receive work and shall report all unsatisfactory conditions to the General Contractor and shall not proceed until satisfactory conditions are attained.
5f. No work shall commence with unapproved materials. Any work done with un-approved materials and equipment is at the contractor's risk. See specifications for submittal and substitution requirements.
5g. Construction materials stored on the site shall be properly stacked and protected so as to prevent damage or deterioration until used. Failure in this regard may be cause for rejection of material and/or
5h. New/existing finishes and construction shall be protected by the contractor from potential damage caused by construction activity. Damage to finishes or construction caused in this manner shall be repaired or replaced (owner's decision) by the contractor with identical material and/or finishes. Contractor shall make and maintain a photographic record notebook with dated/indexed photographs.
5i. In addition to those shown on drawings, provide and locate access doors or panels in ceiling and wall construction as required by mechanical, plumbing, and electrical work.
5j. General Contractor shall leave the job site "broom clean" at the end of each working day. All materials shall be stored in a neat and safe place to avoid accidents.

6. EQUIPMENT BACKING:
6a. For mounting heights not clearly outlined in the plans or schedules, coordinate with the Architect. Architect shall confirm all electrical device and light fixture locations before contractor pulls wire.
6b. Provide solid backing as necessary for wall mounted shelves, fixtures, and fittings, even when work is to be done by Owner directly. Coordinate work and locations with Owner and Architect.
6c. All fastening devices to be concealed, unless otherwise shown.

7. WEATHER PROOFING:
7a. Weather-strip all exterior doors and windows.
7b. Caulk or otherwise seal around all openings to limit infiltration, including but not limited to: Exterior joints around windows and door frames, between sole plates and floors, at exterior wall intersections and corners, and between exterior wall panels.
7c. General Contractor shall verify that all work on the exterior of the project is watertight. All joints exposed to the elements shall be tested for water tightness prior to substantial completion.

CJ W ARCHITECTURE
130 Portola Road, suite A
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LICENSED ARCHITECT
CARTER JENSEN WARR
No. C-19397
REN. 6-30-17
STATE OF CALIFORNIA

◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street Redwood City CA 94063

◦ SHEET TITLE ◦

TITLE SHEET

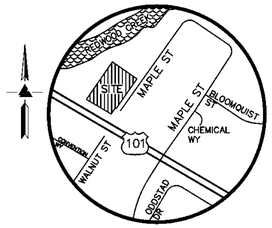
◦ REVISIONS ◦

No.	Date	Notes
1	6-17-2016	Building Submittal
2	8-15-2016	PC#1/ Add #3
3	9-23-2016	PC#2/ Add #6

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: T-0.1

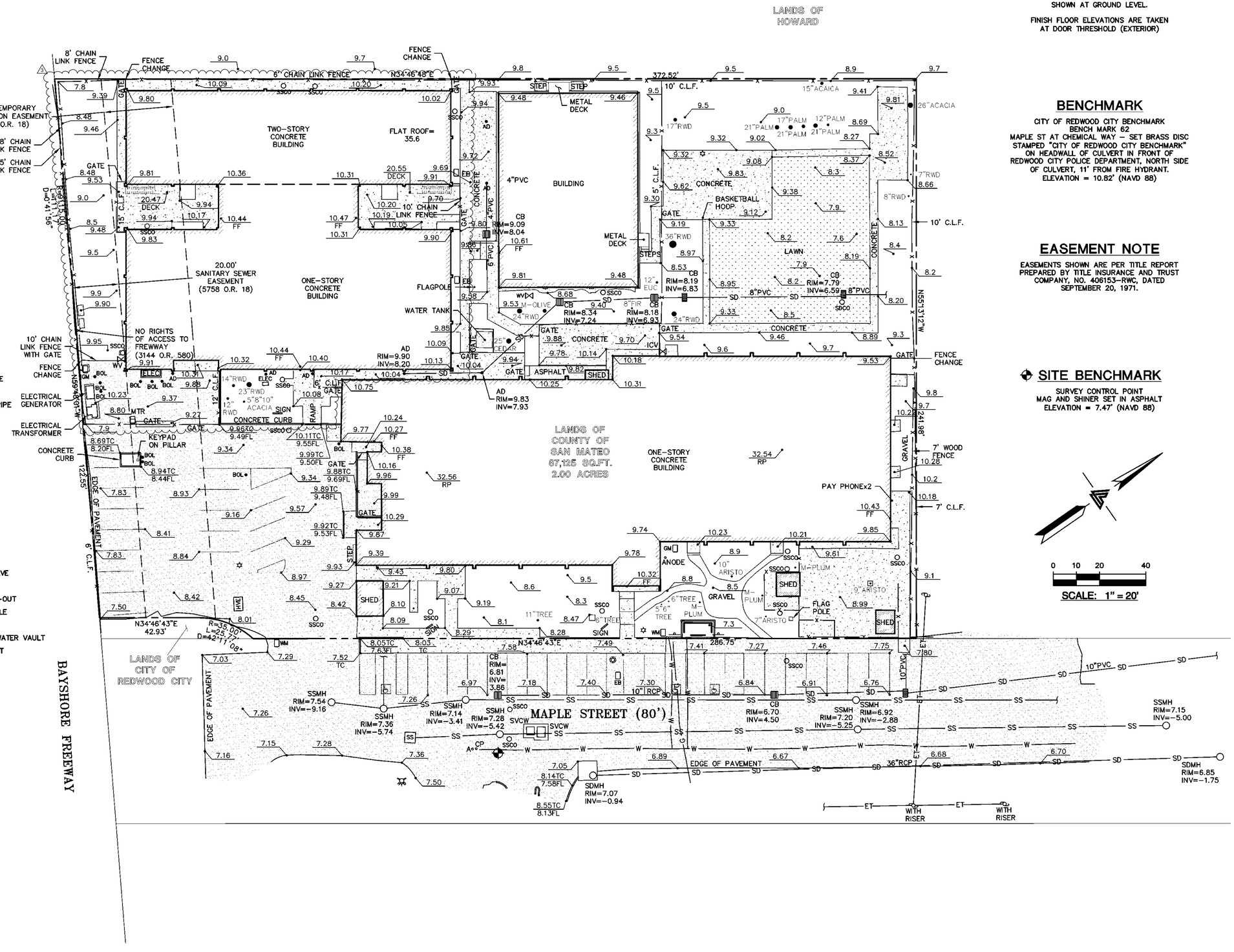


VICINITY MAP

NO SCALE

LEGEND AND NOTES

———	BOUNDARY LINE
- - - -	EASEMENT LINE
——ET——	ELECTRICAL/TELEPHONE OVERHEAD LINE
——x——	FENCE LINE
——G——	GAS LINE (PER USA MARKINGS)
——SS——	SANITARY SEWER LINE
——SD——	STORM DRAIN LINE
——W——	WATER LINE (PER USA MARKINGS)
ARISTO	ARISTOCRAT
C.L.F.	CHAIN LINK FENCE
EUC	EUCALYPTUS
FF	FINISH FLOOR
FL	FLOW LINE
INV	INVERT
M–	MULTIPLE TRUNKS
PVC	POLYVINYL CHLORIDE PIPE
RWD	REDWOOD
RCP	REINFORCED CONCRETE PIPE
RP	ROOF PEAK
TC	TOP OF CURB
TOS	TOP OF SLAB
∘ A	ANODE
• AD	AREA DRAIN
• BOL	BOLLARD
CB	CATCH BASIN
EB	ELECTRICAL BOX
ELEC	ELECTRICAL VAULT
	FIRE HYDRANT
GM	GAS METER
MTR	GATE MOTOR
ICV	IRRIGATION CONTROL VALVE
	JOINT POLE
SSCO	SANITARY SEWER CLEAN–OUT
SSMH	SANITARY SEWER MANHOLE
SS	SANITARY SEWER VAULT
SVCW	SILICON VALLEY CLEAN WATER VAULT
SDCO	STORM DRAIN CLEAN–OUT
SDMH	STORM DRAIN MANHOLE
	STREET LIGHT
UV	UTILITY VAULT
WM	WATER METER
WV	WATER VALVE
XXX.XX	BENCHMARK
XXX.XX	SPOTGRADE
	ASPHALT
	CONCRETE
	GRAVEL
	LAWN
DR 2" INF	TREE: TYPE AND SIZE AS NOTED



NOTES

ALL DISTANCES AND DIMENSIONS ARE IN FEET AND DECIMALS OF A FOOT.

UNDERGROUND UTILITY LOCATION IS BASED ON SURFACE EVIDENCE.

BUILDING FOOTPRINTS ARE SHOWN AT GROUND LEVEL.

FINISH FLOOR ELEVATIONS ARE TAKEN AT DOOR THRESHOLD (EXTERIOR)

BENCHMARK

CITY OF REDWOOD CITY BENCHMARK
BENCH MARK 62
MAPLE ST AT CHEMICAL WAY – SET BRASS DISC STAMPED "CITY OF REDWOOD CITY BENCHMARK" ON HEADWALL OF CULVERT IN FRONT OF REDWOOD CITY POLICE DEPARTMENT, NORTH SIDE OF CULVERT, 11' FROM FIRE HYDRANT.
ELEVATION = 10.82' (NAVD 88)

EASEMENT NOTE

EASEMENTS SHOWN ARE PER TITLE REPORT PREPARED BY TITLE INSURANCE AND TRUST COMPANY, NO. 406153–RWC, DATED SEPTEMBER 20, 1971.

SITE BENCHMARK

SURVEY CONTROL POINT
MAG AND SHINER SET IN ASPHALT
ELEVATION = 7.47' (NAVD 88)

LICENSED LAND SURVEYOR
GREGORY P. BRAZE
No. 7628
Exp. 12-31-16
STATE OF CALIFORNIA
ORIGINAL SIGNATURES IN BLUE INK

LEA & BRAZE ENGINEERING, INC.
CIVIL ENGINEERS · LAND SURVEYORS
BAY AREA REGION
2495 INDUSTRIAL PKWY WEST
HAYWARD, CALIFORNIA 94545
(P) (510) 887–4086
(F) (510) 887–3019
SACRAMENTO REGION
300 DOUGLAS BLVD., # 300
ROSEVILLE, CA 95678
(P) (916)966–1338
(F) (916)797–7363
WWW.LEABRAZE.COM

1580 MAPLE STREET REDWOOD CITY, CALIFORNIA

APN: 052–532–020

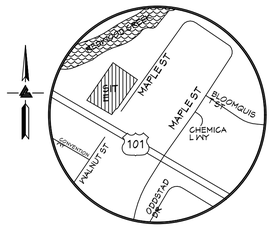
SAN MATEO COUNTY

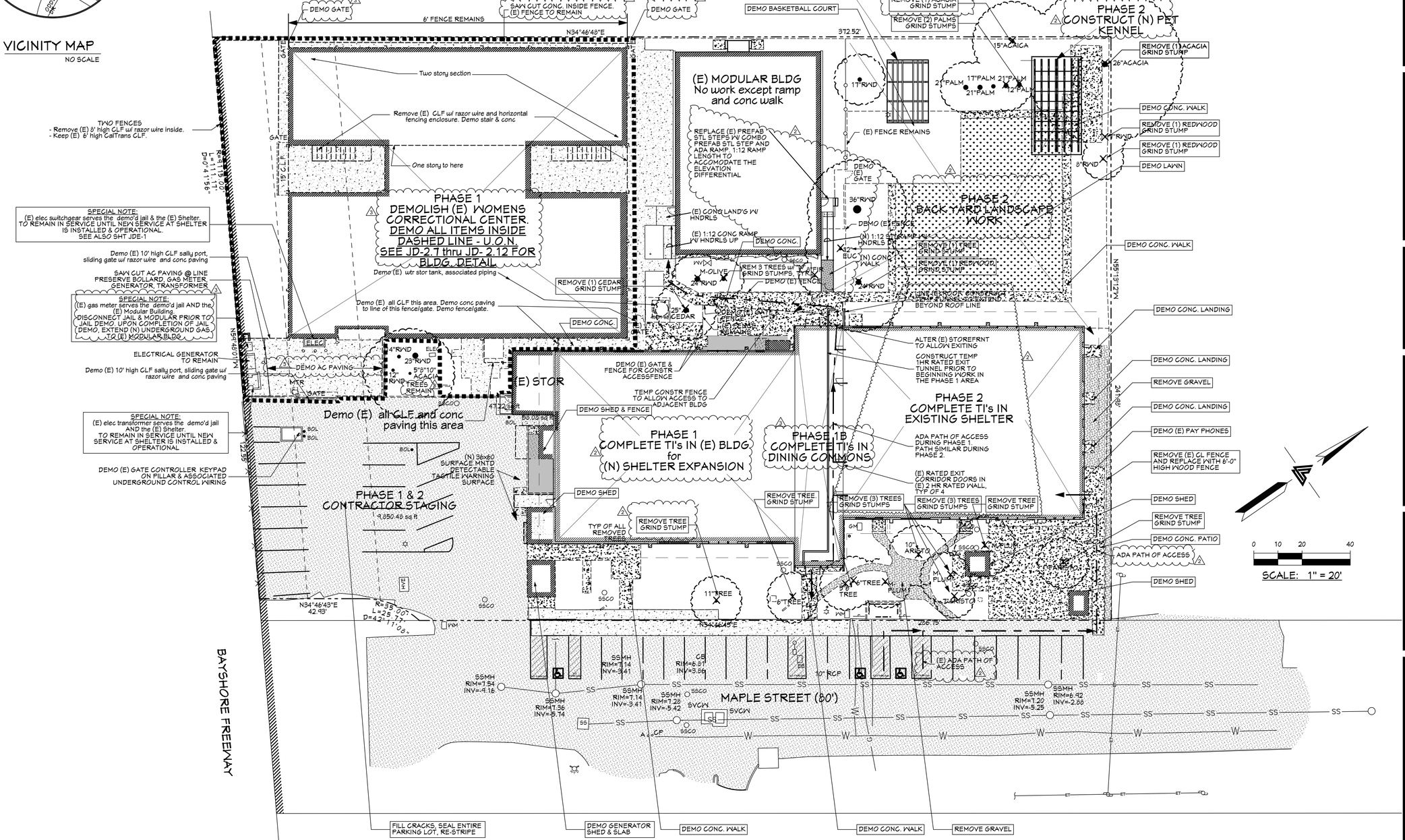
TOPOGRAPHIC SURVEY

–	–
–	–
9-23-2016 PC#2/ Add #6	–
ADDT'L SURVEY 9–16–16	DB
REVISIONS	BY
JOB NO:	2151288
DATE:	01–06–16
SCALE:	1" = 20'
FIELD BY:	DR
DRAWN BY:	JN
SHEET NO:	SU1
01 OF 01 SHEETS	

VICINITY MAP

NO SCALE





1 Site, Phasing & Demolition Plan 1" = 20'

CJ W ARCHITECTURE
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(650) 851-9335 / (Fax) 851-9337

LICENSED ARCHITECT CARTER JENSEN WARD No. C-19397 REN. 6-30-17 STATE OF CALIFORNIA

◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

SITE, PHASING & DEMOLITION PLAN

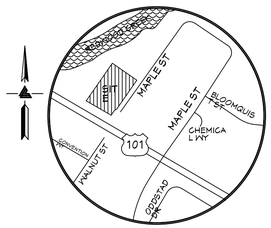
◦ REVISIONS ◦

No.	Date	Notes
1	6-17-2016	Building Submittal
2	8-15-2016	PC#1/ Add #3
3	9-23-2016	PC#2/ Add #6

◦ JOB: 2015.2801

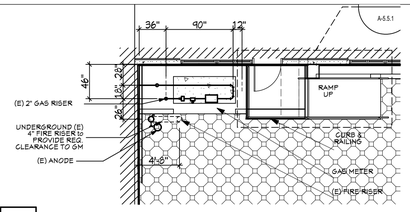
◦ DATE: 6/17/2016

◦ SHEET: A-1.2



VICINITY MAP

NO SCALE



2 (E) GAS METER DETAIL

1/8" = 1'-0"

LEGEND AND NOTES

	BOUNDARY LINE
	EASEMENT LINE
ET	ELECTRICAL/TELEPHONE OVERHEAD LINE
X X	FENCE LINE
G	GAS LINE (PER USA MARKINGS)
SS S	SANITARY SEWER LINE
SD	STORM DRAIN LINE
CW C	WATER LINE (PER USA MARKINGS)
	ADA PATH OF ACCESS
ARISTO	ARISTOCRAT
C.L.F.	CHAIN LINK FENCE
EUC	EUCALYPTUS
FF	FINISH FLOOR
FL	FLOW LINE
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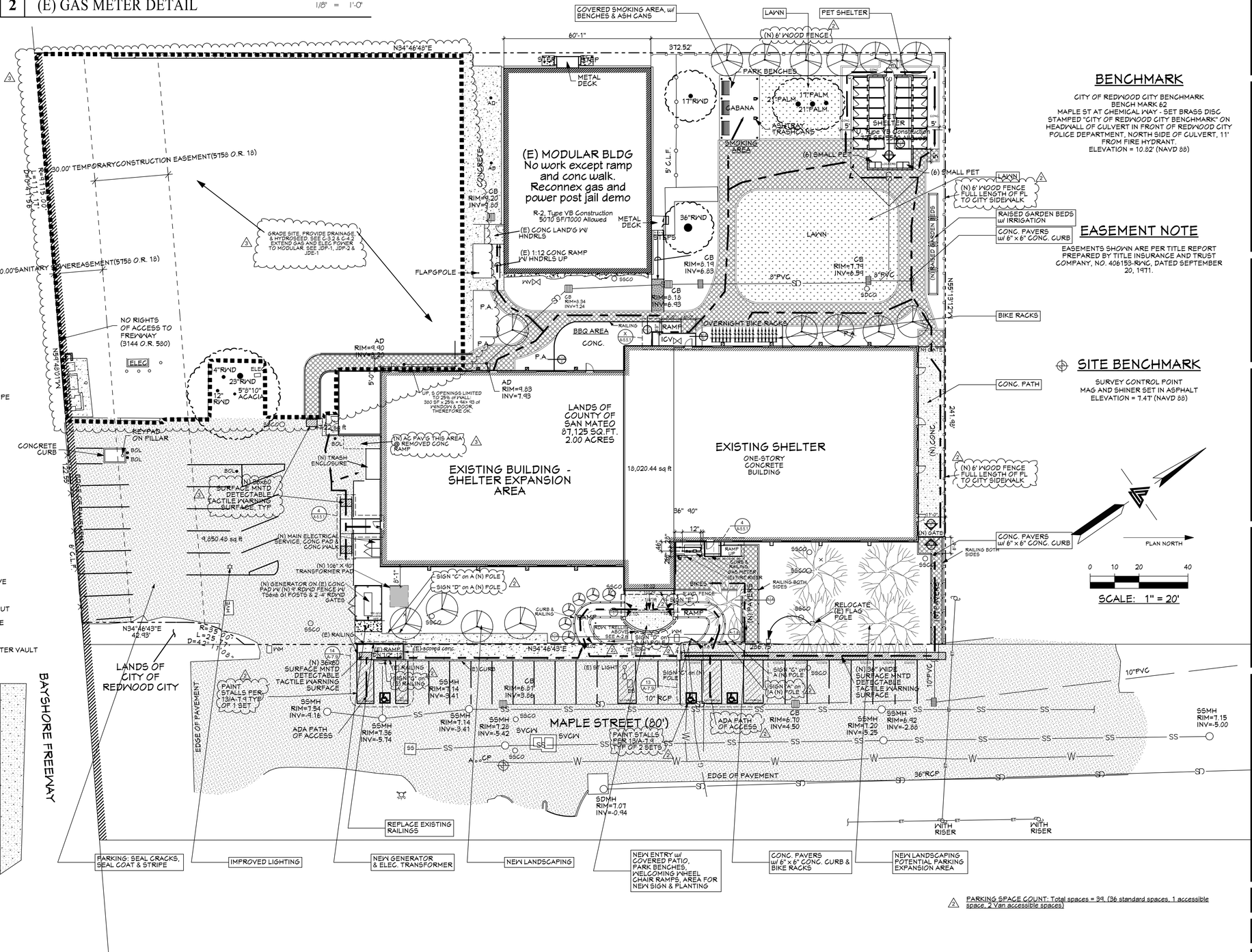
WM	WATER METER
WV	WATER VALVE
	BENCHMARK
XXX.XX	SPOTGRADE
	ASPHALT
	CONCRETE
	GRAVEL
	LAWN
	PAVERS
DRIPLINE	TREE: TYPE AND SIZE AS NOTED



△3 PARKING SPACE COUNT: Total spaces = 39, (36 standard spaces, 1 accessible space, 2 Van accessible spaces)

1 Site Plan Proposed

1" = 20'

NOTES

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SURVEY CONTROL POINT
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ELEVATION = 7.47' (NAVD 88)

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LICENSED ARCHITECT CARTER JENSEN WARD No. C-19397 REN. 6-30-17 STATE OF CALIFORNIA

• PROJECT •

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

• SHEET TITLE •

SITE PLAN PROPOSED

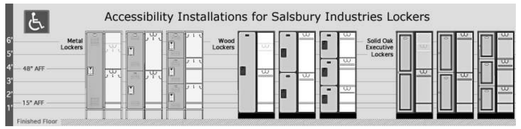
• REVISIONS •

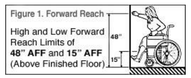
No.	Date	Notes
1	6-17-2016	Building Submittal
△2	8-15-2016	PC#1/ Add #3
△3	9-23-2016	PC#2/ Add #6

• JOB: 2015.2801

• DATE: 6/17/2016

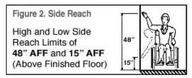
• SHEET: A-1.3





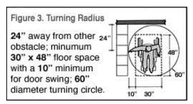
Forward Reach Requirement
Forward reach from a wheelchair is covered in Section 308.2.1 of the 2010 ADA Standards for Accessible Design published by the U.S. Department of Justice (September 15, 2010), It states: "Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground." See Figure 1.

The 48" maximum high forward reach for a shelf must be located less than 48" above the finished floor, and the 15" lower limit position for the shelf surface must be located at 15" above the finished floor.

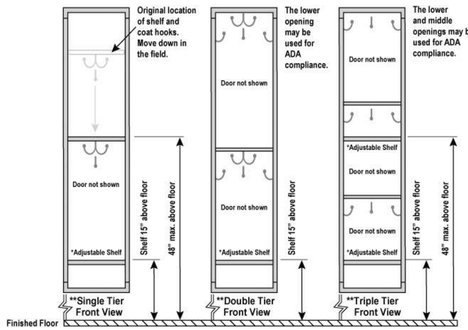


Side Reach Requirement
Side reach from a wheelchair is covered in Section 308.3.1 of the same document. It states: "Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground." See Figure 2.

The 48" maximum high side reach for a shelf must be located less than 48" above the finished floor, and the 15" lower limit position for the shelf surface must be located at 15" above the finished floor.



Turning Radius Recommendation
Lockers should be placed in an area that allows full door swing and wheelchair turning ability. Lockers shall be placed in a location at least 24" away from any wall or other obstacle and have a minimum clear floor space of 30" x 48" with a 10" minimum for door swing. The area in front of the locker must be clear within a 60" diameter turning circle to allow for unobstructed access. See Figure 3.



** Locker shelves are adjustable to meed ADA guidelines.*
*** Locker leg or base height can vary depending on installation desired. From zero (0) inches A.F.F. (metal lockers without legs or wood lockers without bases) to six (6) inches A.F.F. (metal lockers with legs).*

ADA Locker Guidelines

Although the Americans with Disabilities Act (ADA) does not address lockers specifically, it does refer to features that are found on or in lockers and provides guidance for the placement of lockers within a room. That guidance is as follows:

DOOR HARDWARE
• Shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist to
operate." (ADA Accessibility Guideline: 4.13.9)

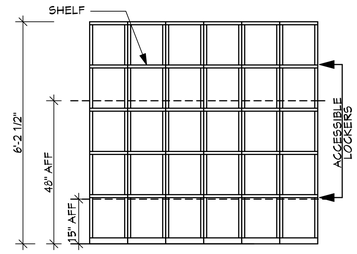
LOCKS
• No higher than 48"
• Limit pinching/twisting
• Suggested lock types:

-Padlock hasp or high security padlock hasp with user supplied ADA compliant lock

INTERIOR DESIGN
• Interior hooks, no higher than 48"
• Shelves: no higher than 48", there must be a shelf no lower that 15" (above finished floor)

LOCKER PLACEMENT
• Clearance in front of locker must be a minimum of 24" away from the lockers and 30" in width along the lockers. Salsbury's
recommended clearance is 60", circular to allow for a wheel chair to turn

Local building officials will eventually require compliance with **The Americans with Disabilities Act of 1990** which requires the following:
-At least one of each type of locker offered, and for double tier lockers only the bottom row be provided as ADA compliant
-A clear floor space of 30"x48" minimum that allows for either forward or parallel approach by a person using a wheelchair
-Storage spaces such as shelves, hooks, coat rods, etc. shall be located at a height of 15" minimum and 48" maximum above the
finished floor
-Acceptable hardware for accessible lockers are U-shaped pulls located as close to the top of the door as possible



Per CBC 11B-309 LOCKERS SHALL COMPLY WITH ADA ACCESSIBILITY. AT LEAST 5% OF LOCKERS SHALL BE ACCESSIBLE; CURRENT DESIGN MAKES 60%ACCESSIBLE.

8 Entry Ramps

1/2" = 1'-0"

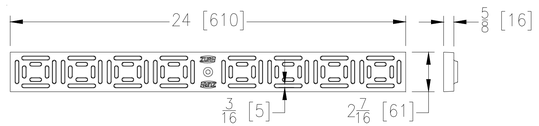
ZURN

P880-BZ
2-7/16 [61] Wide Bronze Decorative Grate

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice

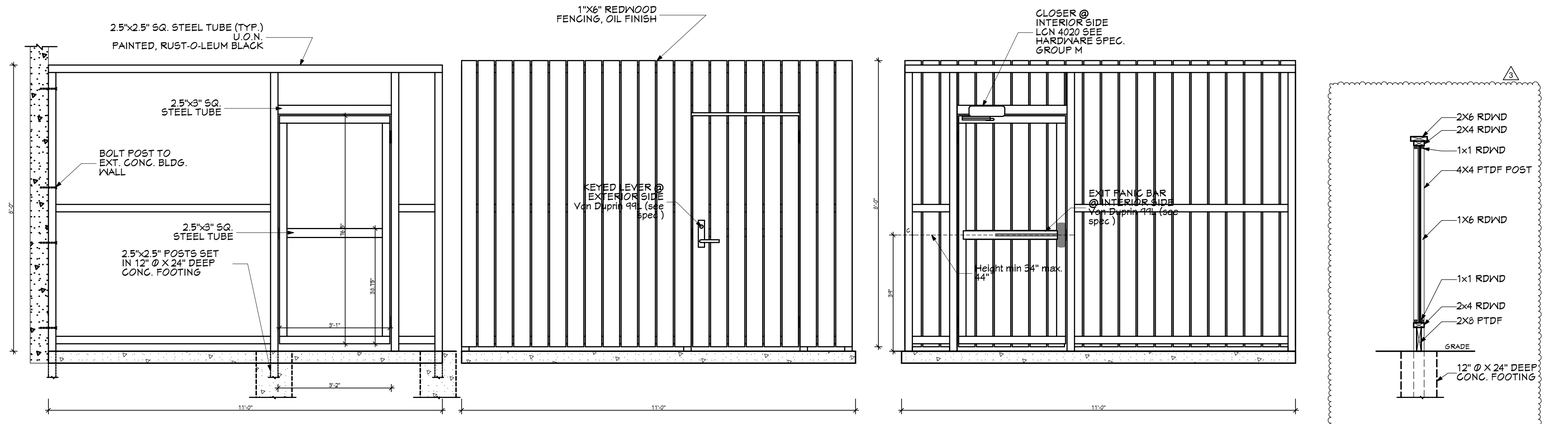
Back to Index

Please Check ✓	Item No.	Part Number	Item I.D.
	2	64446-001	P880-BZ



Opening in grate is max. 3/16".
Opening shall not allow passage of a sphere more than 1/2" diameter.
CBC 11B-302.3 & Figure 11B-302.3

5 Trench Drain Grate



STEEL FENCE FRAME - VIEW FROM STREET
WOOD FENCE - VIEW FROM STREET
WOOD FENCE - VIEW FROM INTERIOR

7 Gate & Fence - West

1/2" = 1'-0"

CJ W ARCHITECTURE
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(650) 851-9335 / (Fax) 851-9337

LICENSED ARCHITECT CARTER JENSEN WANN No. C-19397 REN. 6-30-17 STATE OF CALIFORNIA

◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

SITE DETAILS

◦ REVISIONS ◦

No.	Date	Notes
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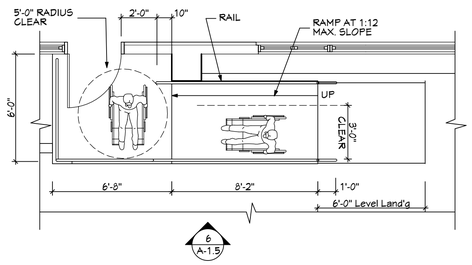
2	8-15-2016	FC#1/ Add #3
3	9-23-2016	FCC & Add #6

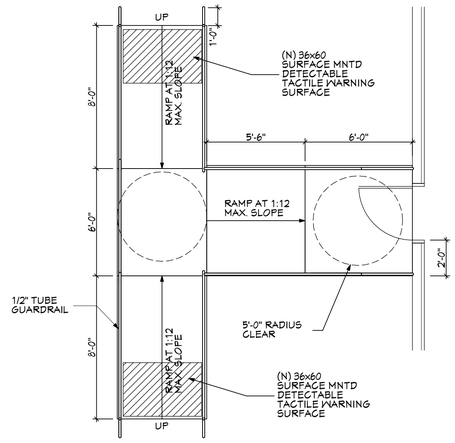
◦ JOB: 2015.2801

◦ DATE: 6/17/2016

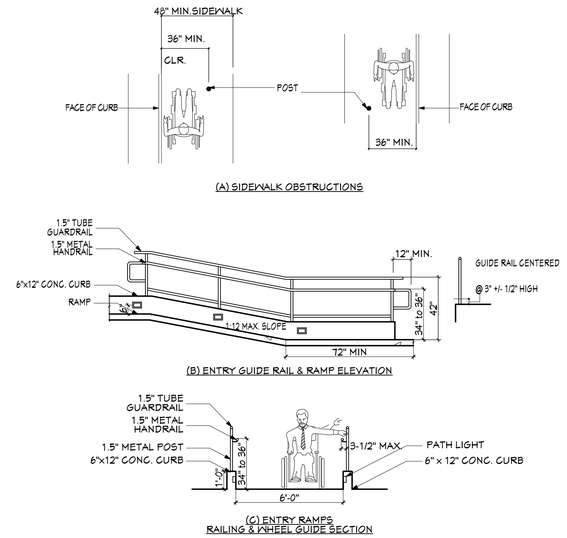
◦ SHEET: A-1.5



5 Ramp Plan @ Women Emergency Housing 1/4" = 1'-0"



3 Ramp Plan South 1/4" = 1'-0"



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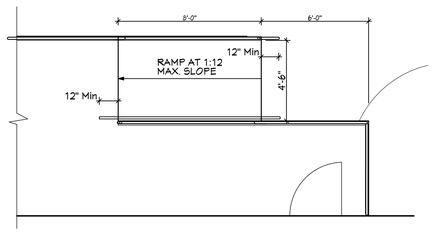
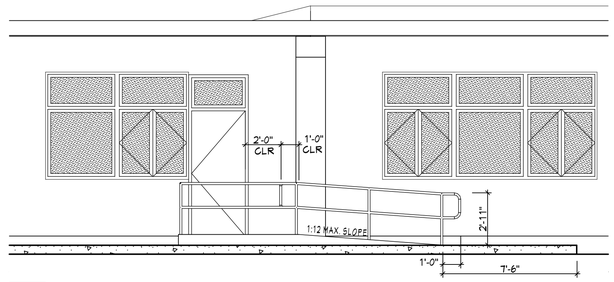
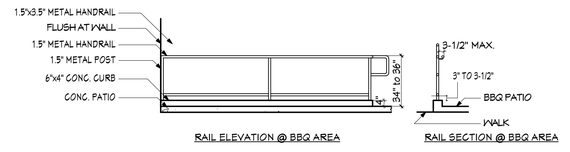


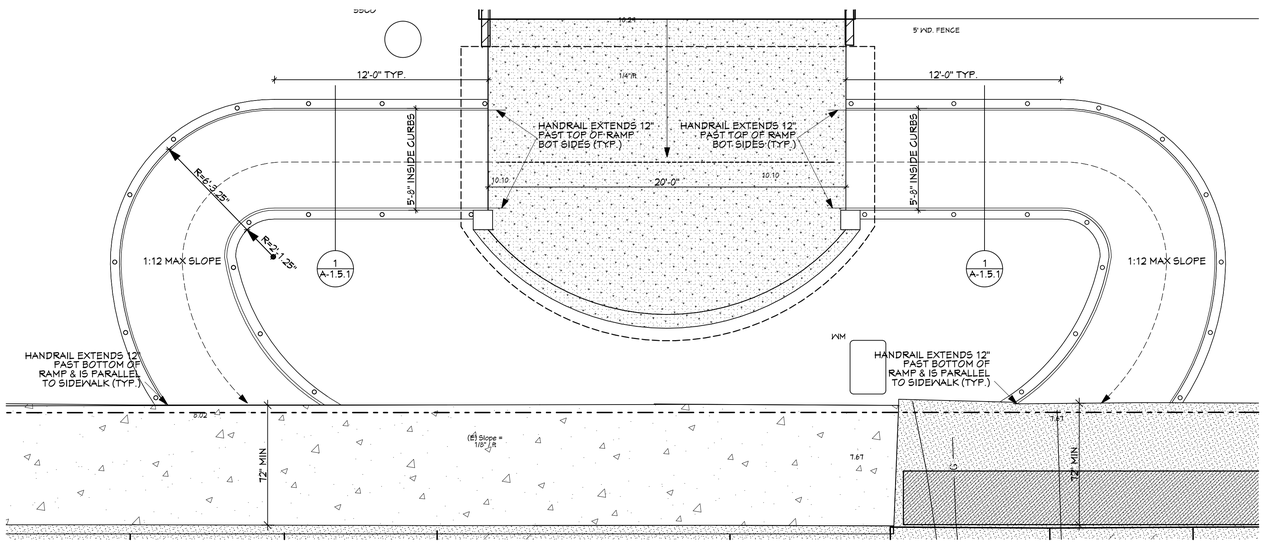
6 Ramp Plan West 1/4" = 1'-0"



4 Ramp Sect. @ Women Emergency Housing 1/4" = 1'-0"



2 BBQ Area Railings 1/4" = 1'-0"



7 Entry Ramp Detail 1/4" = 1'-0"

CJ W ARCHITECTURE
130 Portola Road, suite A
Portola Valley, CA 94028
(650) 851-9335 / (Fax) 851-9337

LICENSED ARCHITECT CARTER JENSEN WARD No. C-19397 REN. 6-30-17 STATE OF CALIFORNIA

◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

ADA RAMP DETAILS

◦ REVISIONS ◦

No.	Date	Notes
3	9-23-2016	PCC & Add #6

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: A-1.5.1 3

DEMOLITION NOTES

DEMOLITION WILL INCLUDE ALL INTERIOR AREAS PLUS EXTERIOR DOORS AND WINDOWS INCLUDING THE FOLLOWING:

- DEMO ALL CEILINGS STOPPING AT THE TRUSSES, INSULATION ABOVE THE CEILINGS, MECHANICAL AND PLUMBING EQUIPMENT AIN THE ATTIC
- DEMO ALL INTERIOR WALLS
- DEMO ALL FLOOR COVERINGS
- DEMO ALL INTERIOR LIGHTING
- DEMO ALL INTERIOR ELECTRICAL OUTLETS. LEAVE MAIN PANEL AND SUB-PANELS IN PLACE. SEE ALSO PHASING DISCUSSION BY MEP IN ADDENDUM 3.
- DEMO SURFACE MATERIALS ATTACHED TO EXTERIOR CONCRETE WALLS, SUCH AS FRP PANELS, STAINLESS STEEL SHEET AND ANY OTHER MATERIELS APPLIED TO CONCRETE SURFACE.
- DEMO ALL EXTERIOR DOORS AND FRAMES.
- DEMO ALL WINDOWS AND FRAMES.
- DISMANTLE EXISTING BUS SHELTER AND STORE TO PRESERVE; SEE COUNTY MAINTENENCE MANAGER FOR DETAILS

WALL LEGEND

- (E) EXTERIOR WALL TO REMAIN
- (E) INTERIOR WALL TO REMAIN
- (N) EXTERIOR WALL
- (N) INTERIOR WALL
- (N) INFILL — (N) IN-FILL @ (E) OPENING w/ SHOTCRETE (SEE STRUC.) MATCH (N) FINISH @ INT.

2 NOTE: See sheet A-1.4 for 1 hour fire partitions and 1 hour fire barrier UL wall listings

(E) DRY STORAGE TO REMAIN
DEMO (E) REFRIG COMPRESSORS
SAW CUT THIS BAY FOR NEW WINDOW TO MATCH (E)
SAW CUT THIS BAY FOR NEW WINDOW TO MATCH (E)
CHANGE WINDOW TO DOOR
(N) EXIT DOOR & WINDOWS w/ CONC. LANDING
DEMO (E) STORE FRONT WINDOW & ENTRY DOOR SYSTEM
DEMO (E) PARTIAL-HEIGHT PARTITIONS
DEMO (E) TOILET/SHOWER CORE. INTERIOR TO BE REBUILT

JANITOR 16
DEMO WALK-IN COOLER
DEMO ALL KITCHEN EQUIP. STOVES, FRYERS, HOODS, ETC.
KITCHEN 17
DINING ROOM 18
DORM
VISITOR RESTROOM 21
VISITOR COATS 22
INMATE RESTROOM 23
SUPPLY 15
DEMO WALK-IN COOLER
STGE 15-A
CORRIDOR 3
HOBBY ROOM 19
DAY ROOM 20
TRANSITIONAL HOUSING OFFICE 20B
HOUSING CONF. 20C
LAUNDRY 14
CORRIDOR 3
(E) ELECT. EQUIP. 12
VEST 11
STORAGE 13
STAFF TOILET 12
PROTECT & PRESERVE PHONE (E) EQUIPT.
CONFERENCE 10
INTERVIEW 9
INTERVIEW 8
STAFF 7
SECRETARY 6
OFFICE 5
OFFICE 4
PROGRAM DIRECTOR OFFICE 1A
PROGRAM CONFERENCE 1B
MEN #1 TRANSITIONAL HOUSING 35
MEN #2 TRANSITIONAL HOUSING 27
CORRIDOR 24-A
WATER HEATERS 25
EMERGENCY OFFICE 34
KITCHEN 33
SHOWER MEN 36-M
TOILET MEN 38-M
LAUNDRY 34
CORRIDOR 24-B
SHOWER WOMEN 36-W
TOILET WOMEN 38-W
WOMEN #3 TRANSITIONAL HOUSING 28
WOMEN #4 TRANSITIONAL HOUSING 29
CORRIDOR 24-C
MEN EMERGENCY HOUSING 32-A
WOMEN EMERGENCY HOUSING 31
LOUNGE 30
DEMO (E) KITCHEN CABINETS AND EQUIPMENT
DEMO (E) DOOR & CONC. LANDING
DEMO (E) DOOR & CONC. LANDING
(N) DOOR & CONC. LANDING LOCATION
DEMO CONC. PATIO @ FRONT YARD. SEE SITE DEMO
DEMO (E) ADD-ON STRUCTURE
DEMO (E) GENERATOR AND GENERATOR SHED
DEMO (E) STORE FRONT WINDOW & ENTRY DOOR SYSTEM
DISMANTLE & STORE (E) BUS SHELTER TO BE USED AT NEW LOCATION
BUS SHELTER

1 Main Floor Demolition plan — 1/8" = 1'-0"

PLAN NORTH

CJ W ARCHITECTURE
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LICENSED ARCHITECT — CARTER JENSEN WARD — No. C-19397 REN. 6-30-17 — STATE OF CALIFORNIA

PROJECT

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

SHEET TITLE

DEMO PLAN SHELTER

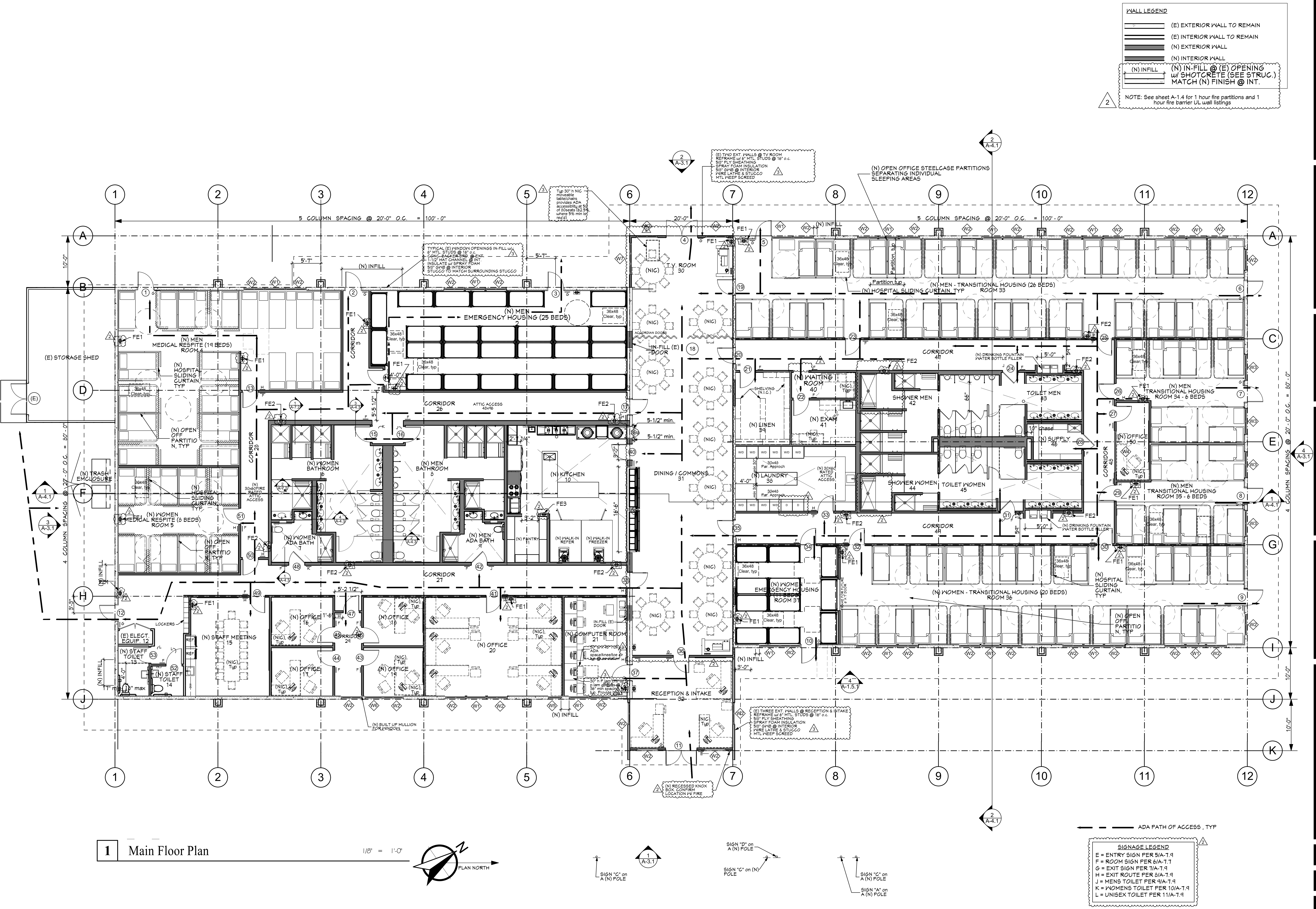
REVISIONS

No.	Date	Notes
1	6-17-2016	Building Submittal
3	9-23-2016	PC#2/ Add #6

JOB: 2015.2801

DATE: 6/17/2016

SHEET: A-2.0



1 Main Floor Plan 1/8" = 1'-0"

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LICENSED ARCHITECT CARTER JENSEN WARR No. C-19397 REN. 6-30-17 STATE OF CALIFORNIA

• PROJECT •

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

• SHEET TITLE •

MAIN FLOOR PLAN

• REVISIONS •

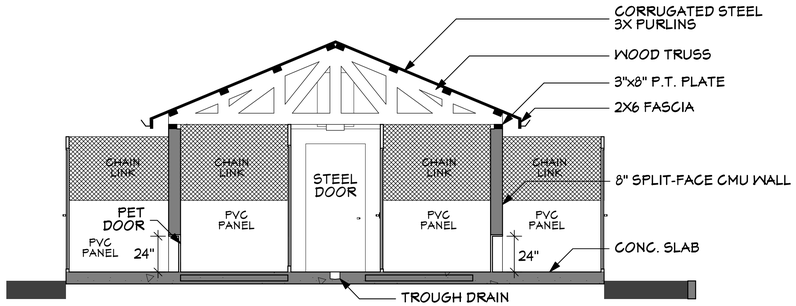
No.	Date	Notes
1	6-17-2016	Building Submittal
2	8-15-2016	PC#1/ Add #3

• JOB: 2015.2801

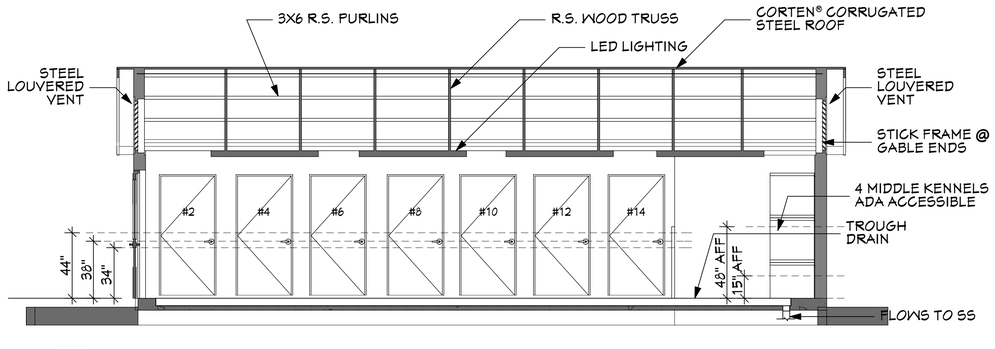
• DATE: 6/17/2016

• SHEET: A-2.1

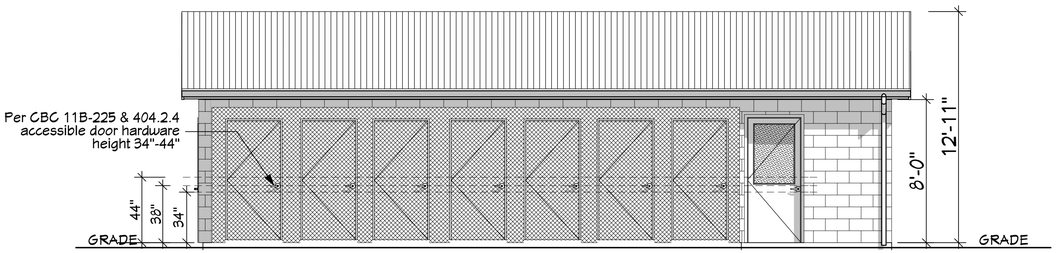
a) Accessible hardware is centered between 34" and 44" above the floor. CBC 11B-404.2.7
b) Floor in the direction of travel shall not be more than ½" lower than the threshold of the doorway. Change in level between ¼" and ½" shall be beveled with a slope no greater than 1 unit vertical to 2 units horizontal (50% slope). CBC 11B-404.2.5
c) Operable parts of doors shall comply with CBC 11B-309.4.
d) Bottom 10" of all doors to have a smooth, uninterrupted surface to allow the door to be opened by a wheelchair footrest without creating a trap or hazardous condition. CBC 11B-404.2.10



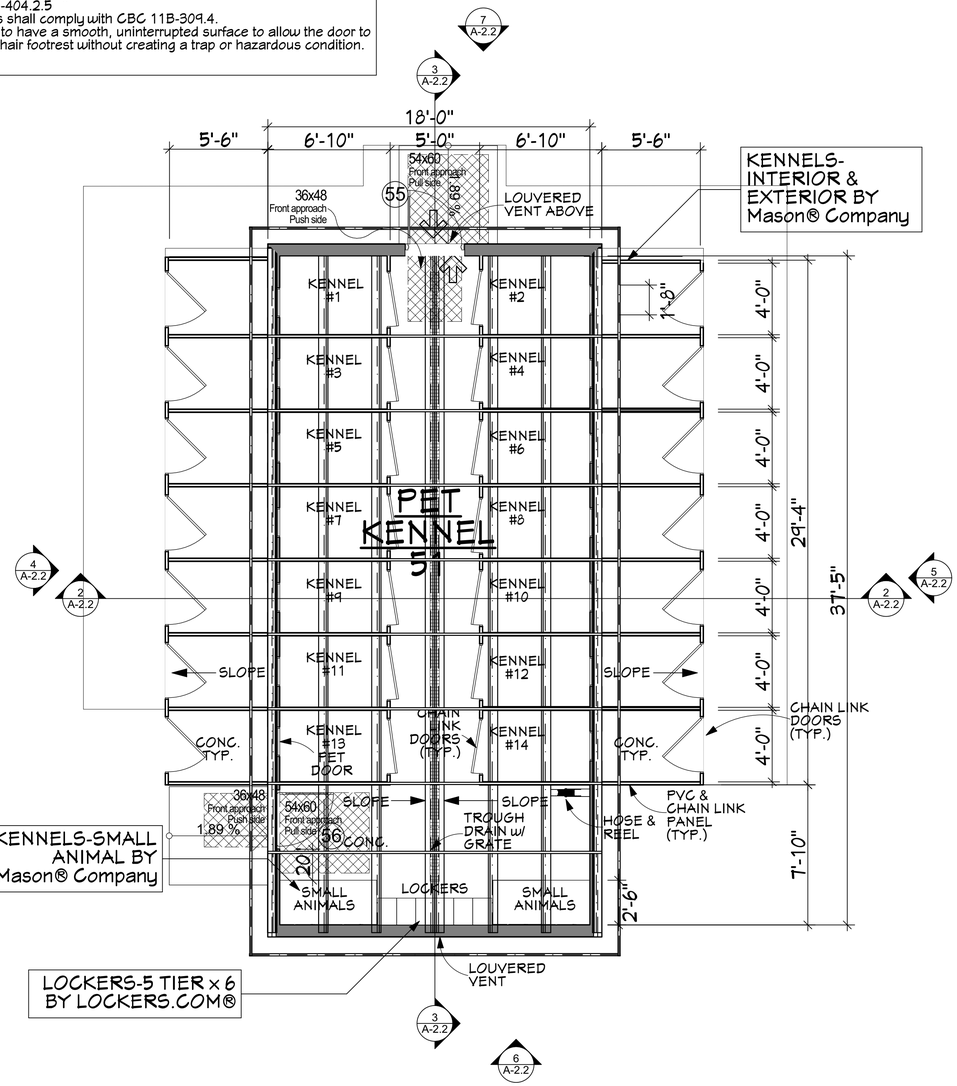
2 SECTION A @ SHELTER 1/4" = 1'-0"



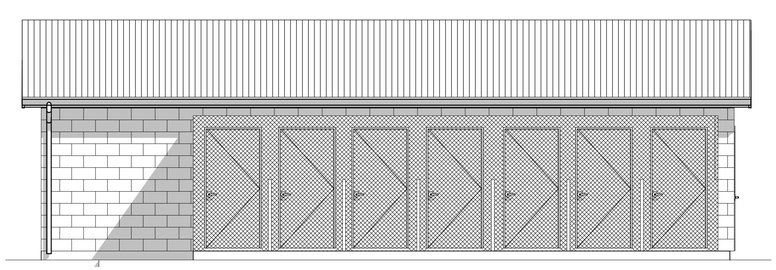
3 SECTION B @ SHELTER 1/4" = 1'-0"



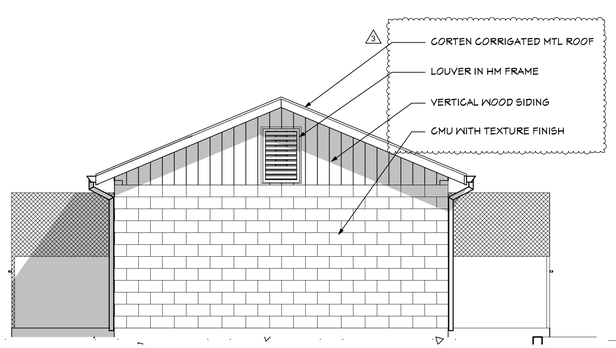
4 KENNEL WEST ELEVATION 1/4" = 1'-0"



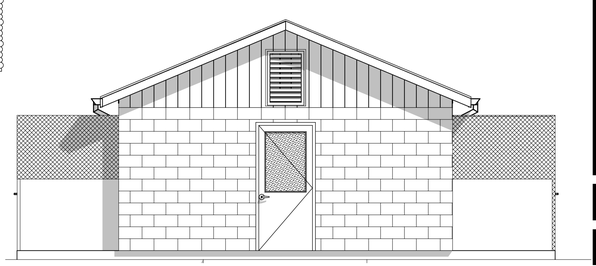
1 Main Floor Plan 1/4" = 1'-0"



5 KENNEL EAST ELEVATION 1/4" = 1'-0"



6 KENNEL SOUTH ELEVATION 1/4" = 1'-0"



7 KENNEL NORTH ELEVATION 1/4" = 1'-0"

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

PET KENNEL PLAN

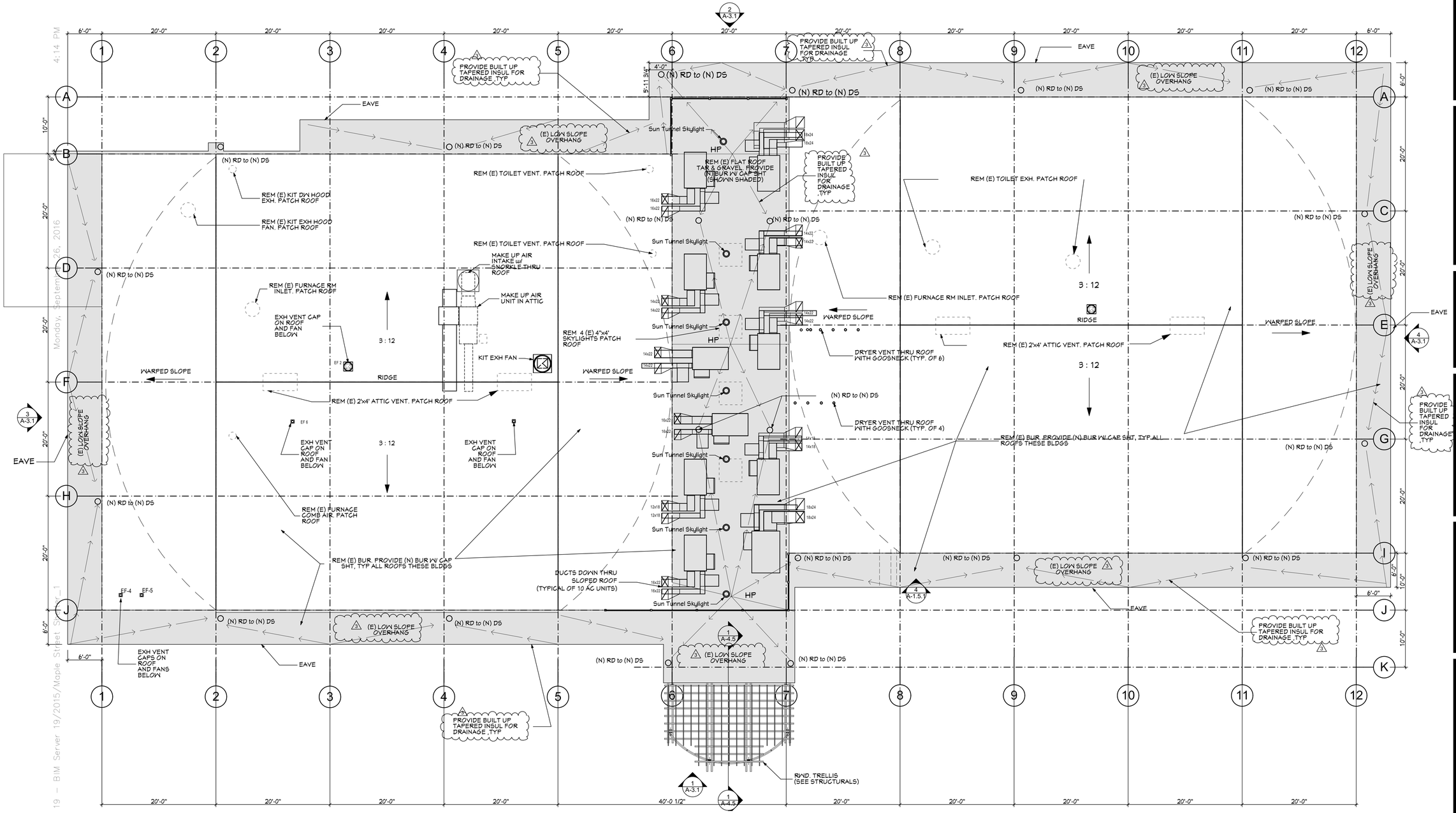
◦ REVISIONS ◦

No.	Date	Notes
1	6-17-2016	Building Submittal
2	8-15-2016	PC#1/ Add #3
3	9-23-2016	PCC & Add #6

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: A-2.2



1 Roof Plan 1/8" = 1'-0"

BIM Server: CJW BIM Server 19 — BIM Server 19/2015/Maple Street Shelter_1

Monday, September 26, 2016 4:14 PM

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LICENSED ARCHITECT
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No. C-19397
REN. 6-30-17
STATE OF CALIFORNIA

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LifeMoves Maple Street Shelter
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Redwood City CA 94063

◦ SHEET TITLE ◦

ROOF PLAN

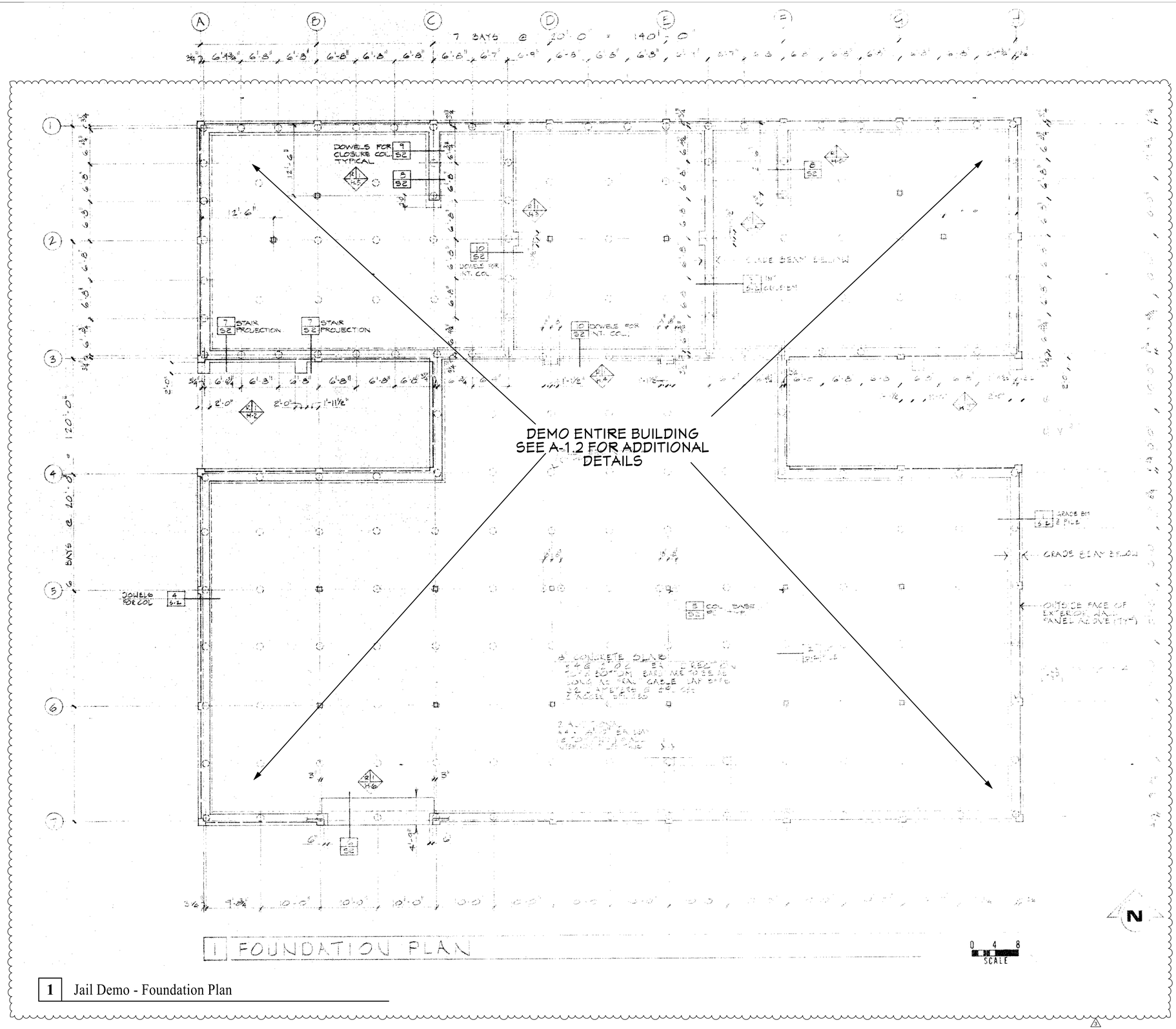
◦ REVISIONS ◦

No.	Date	Notes
1	6-17-2016	Building Submittal
3	9-23-2016	FCC & Add #6

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: A-2.4



1 FOUNDATION PLAN

1 Jail Demo - Foundation Plan

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◦ SHEET TITLE ◦

JAIL DEMO - EXISTING FOUNDATION

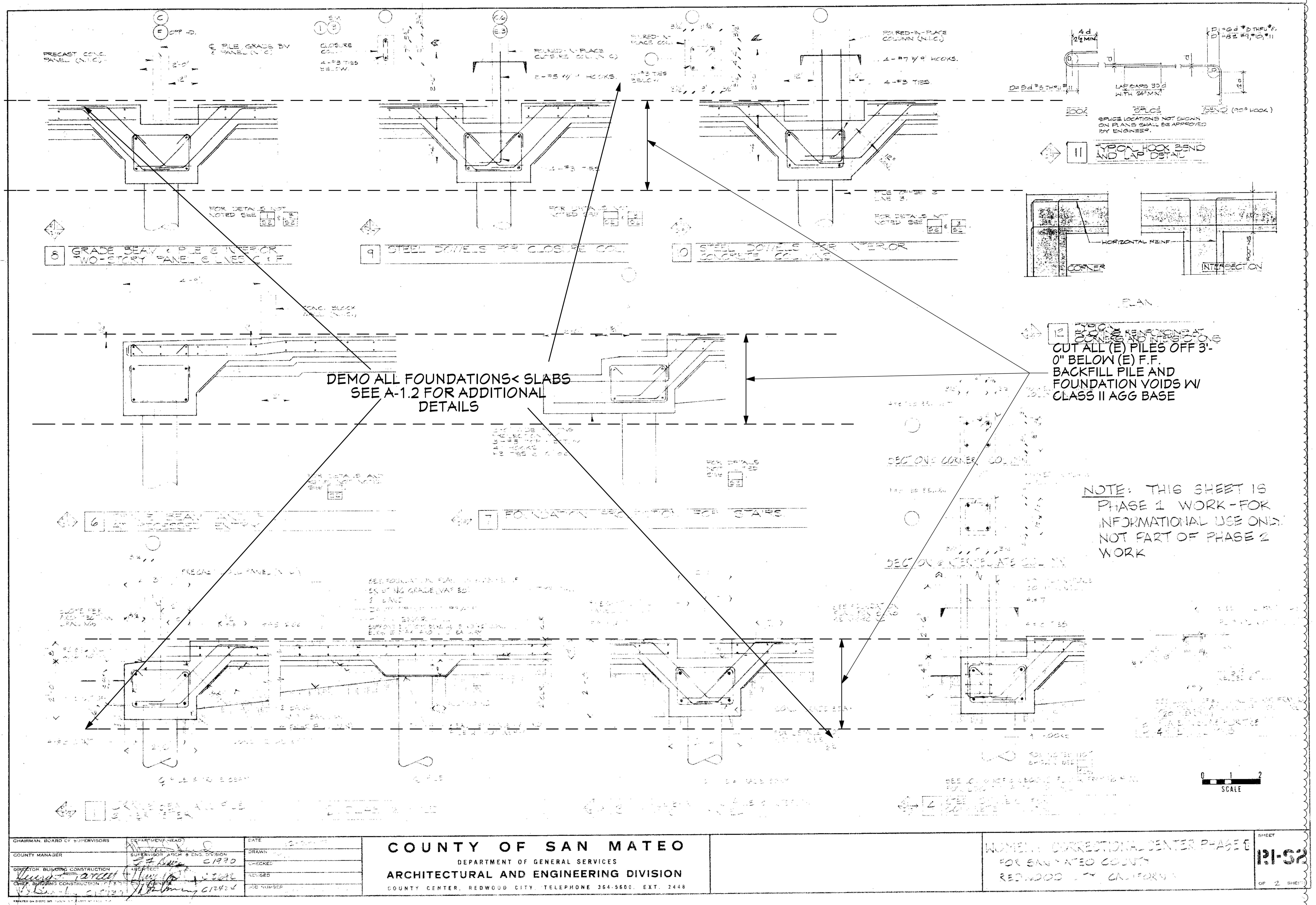
◦ REVISIONS ◦

No.	Date	Notes
1	9-23-2016	PC#2/ Add #6

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: JD-2.7



1 Existing Jail Foundation & Grade Beam Details (NTS)

3

C J W ARCHITECTURE

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∘ PROJECT ∘

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Redwood City CA 94063

∘ SHEET TITLE ∘

JAIL DEMO - EXISTING FOUNDATION DETAILS

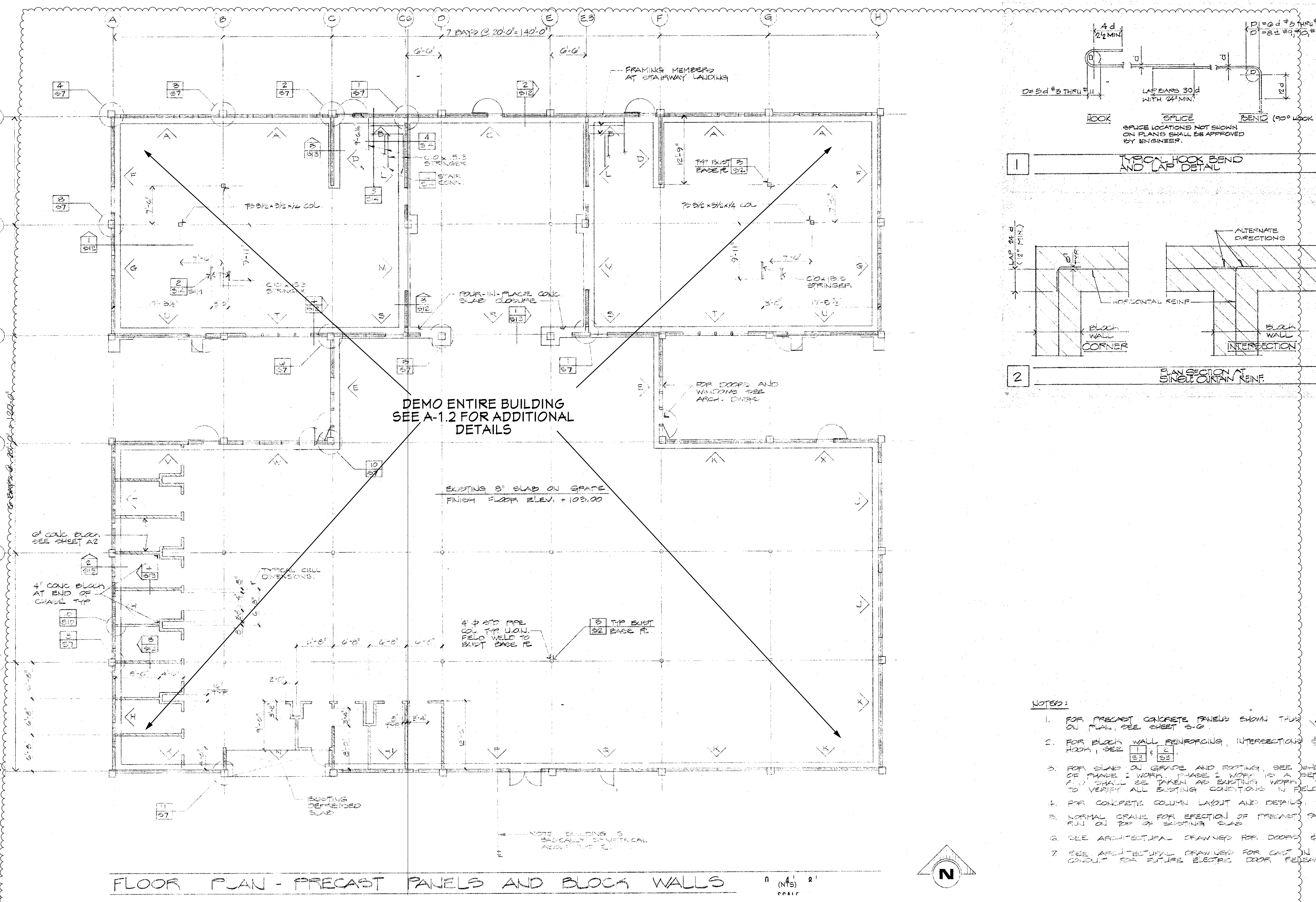
∘ REVISIONS ∘

No.	Date	Notes
3	9-23-2016	PC#2/ Add #6

∘ JOB: 2015.2801

∘ DATE: 6/17/2016

∘ SHEET: JD-2.7.1



1 Jail Demo - Precast Walls & Block Walls (NTS)

C J W ARCHITECTURE
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∘ PROJECT ∘

LifeMoves Maple Street Shelter
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Redwood City CA 94063

∘ SHEET TITLE ∘

JAIL DEMO - PRECAST PANELS & CMU WALLS

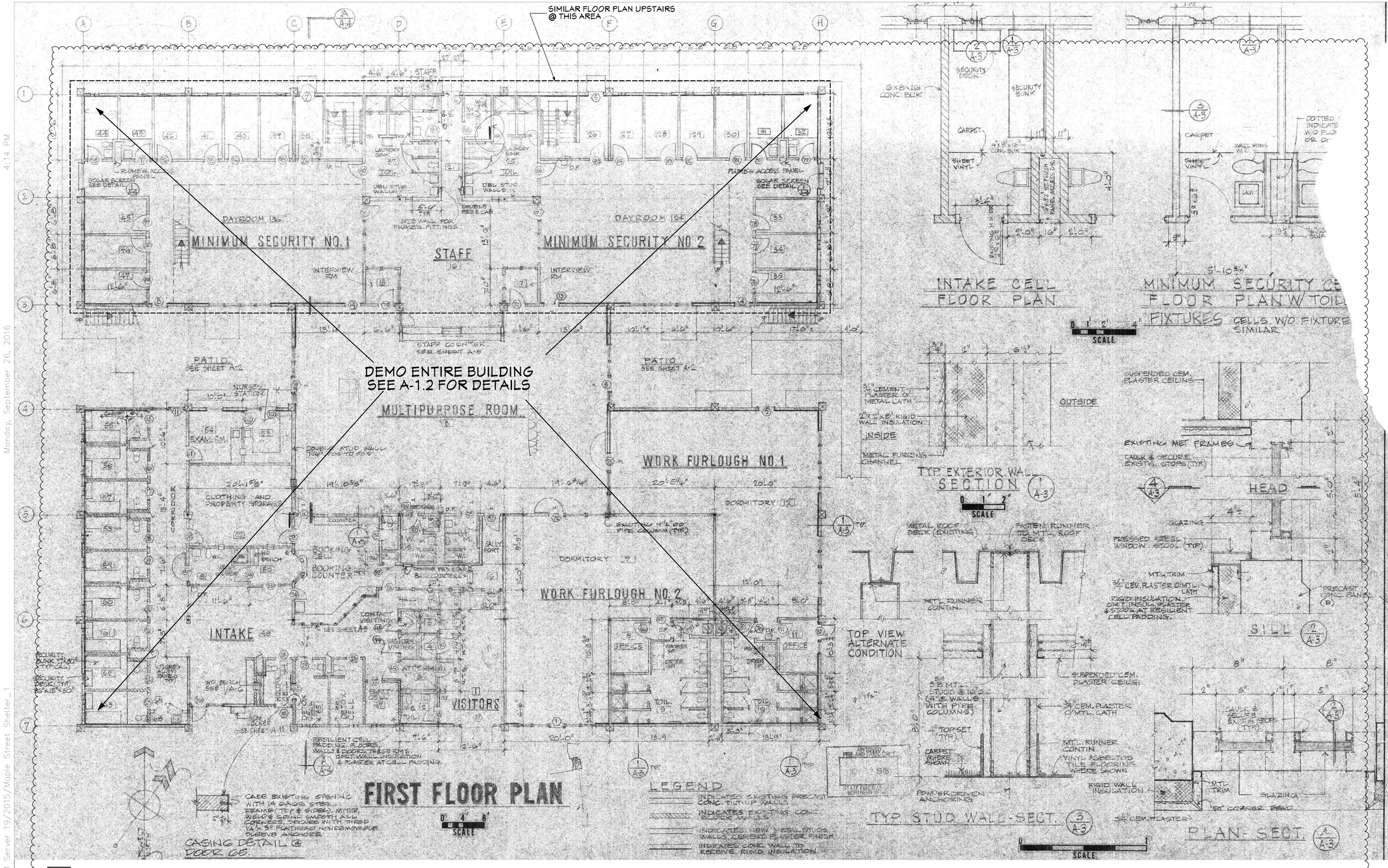
∘ REVISIONS ∘

No.	Date	Notes
3	9-23-2016	PC#2/ Add #6

∘ JOB: 2015.2801

∘ DATE: 6/17/2016

∘ SHEET: JD-2.7.2



1 Jail Demo - First Floor Plan (NTS)

CJ W ARCHITECTURE
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JAIL DEMO - FIRST FLOOR

◦ REVISIONS ◦

No.	Date	Notes
3	9-23-2016	PC#2/ Add #6

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: JD-2.8

SAWCUT WALK SLAB HERE. WALK & (E) FENCE REMAIN

DEMO ENTIRE BUILDING SEE A-1.2 FOR DETAILS

TRANSVERSE SECTION

SCALE 0 2' 4'

SECOND FLOOR PLAN

SCALE 0 4' 8'

SOLAR SCREEN DETAIL

SCALE 0 1 2

SCALE 0 1

1 2nd Floor & Section (NTS)

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LifeMoves Maple Street Shelter
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Redwood City CA 94063

◦ SHEET TITLE ◦

JAIL DEMO, 2nd FLOOR & SECTION

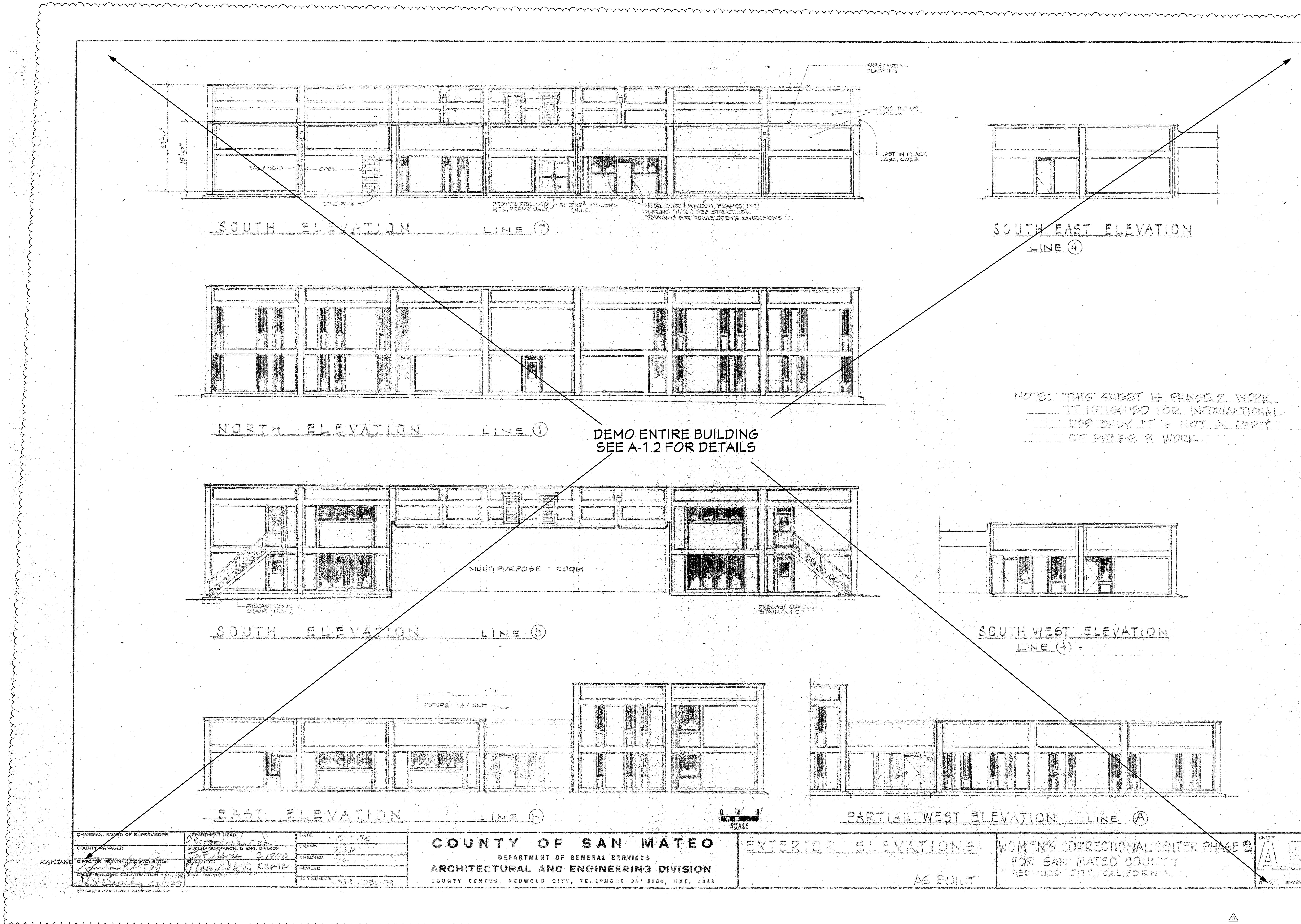
◦ REVISIONS ◦

No.	Date	Notes
2	9-23-2016	PC#2/ Add #6

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: JD-2.9



1 Jail Exterior Elevations (NTS)

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Redwood City CA 94063

SHEET TITLE

JAIL DEMO - EXTERIOR ELEVATIONS

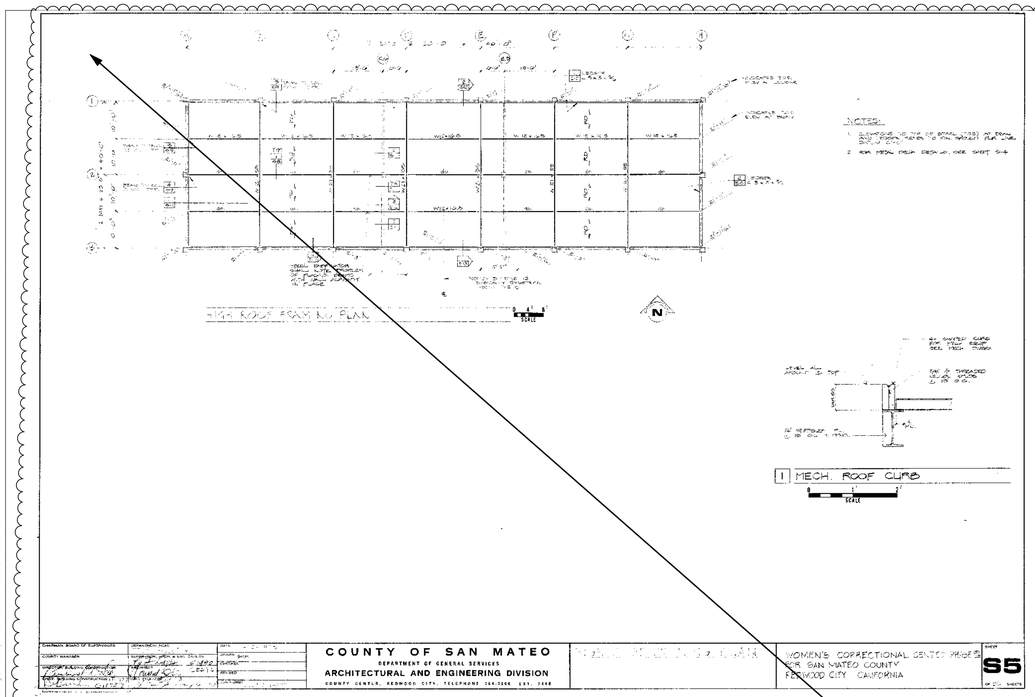
REVISIONS

No.	Date	Notes
3	9-23-2016	PC#2/ Add #6

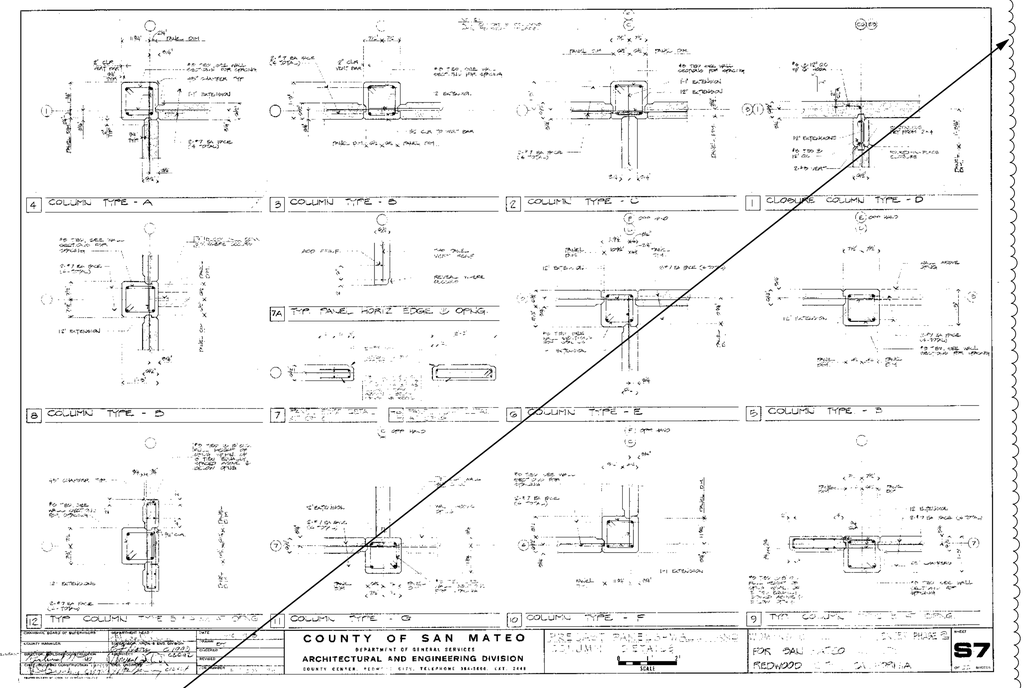
JOB: 2015.2801

DATE: 6/17/2016

SHEET: JD-2.10

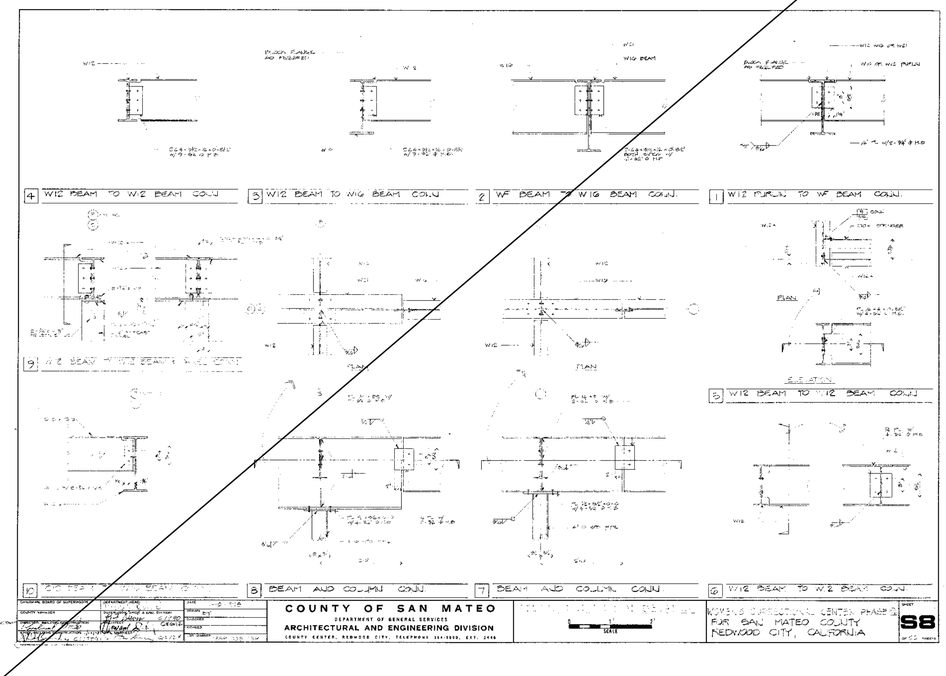


1 Upper Roof Plan (NTS)

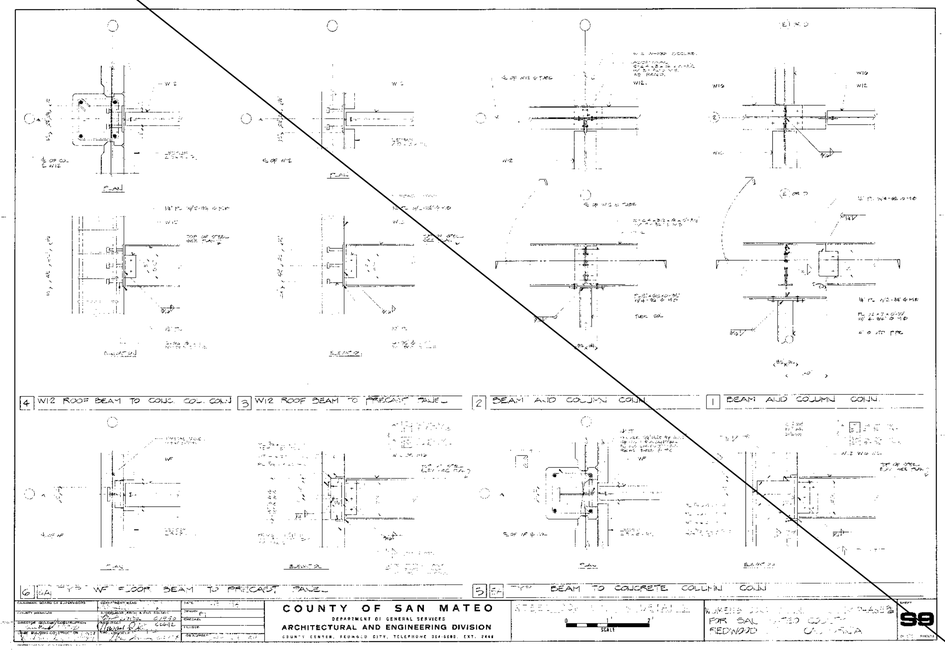


2 Pre-Cast Wall Panel Details (NTS)

DEMO ENTIRE BUILDING
SEE A-1.2 FOR DETAILS



3 Steel connex det (NTS)



4 Steel connex det 2 (NTS)

△3

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LICENSED ARCHITECT
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LifeMoves Maple Street Shelter
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Redwood City CA 94063

◦ SHEET TITLE ◦

JAIL DEMO - UPPER ROOF, PANEL & STEEL DETAILS

◦ REVISIONS ◦

No.	Date	Notes
△3	9-23-2016	PC#2/ Add #6

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: JD-2.11

Monday, September 26, 2016 4:14 PM
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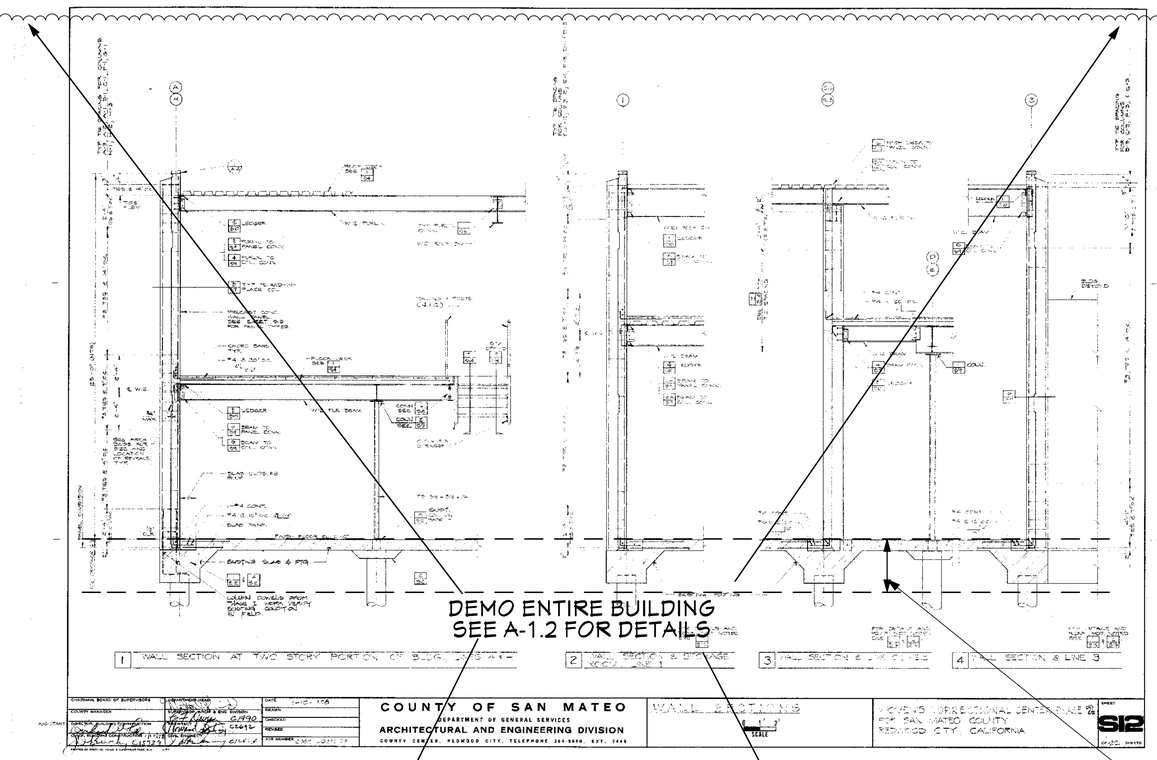
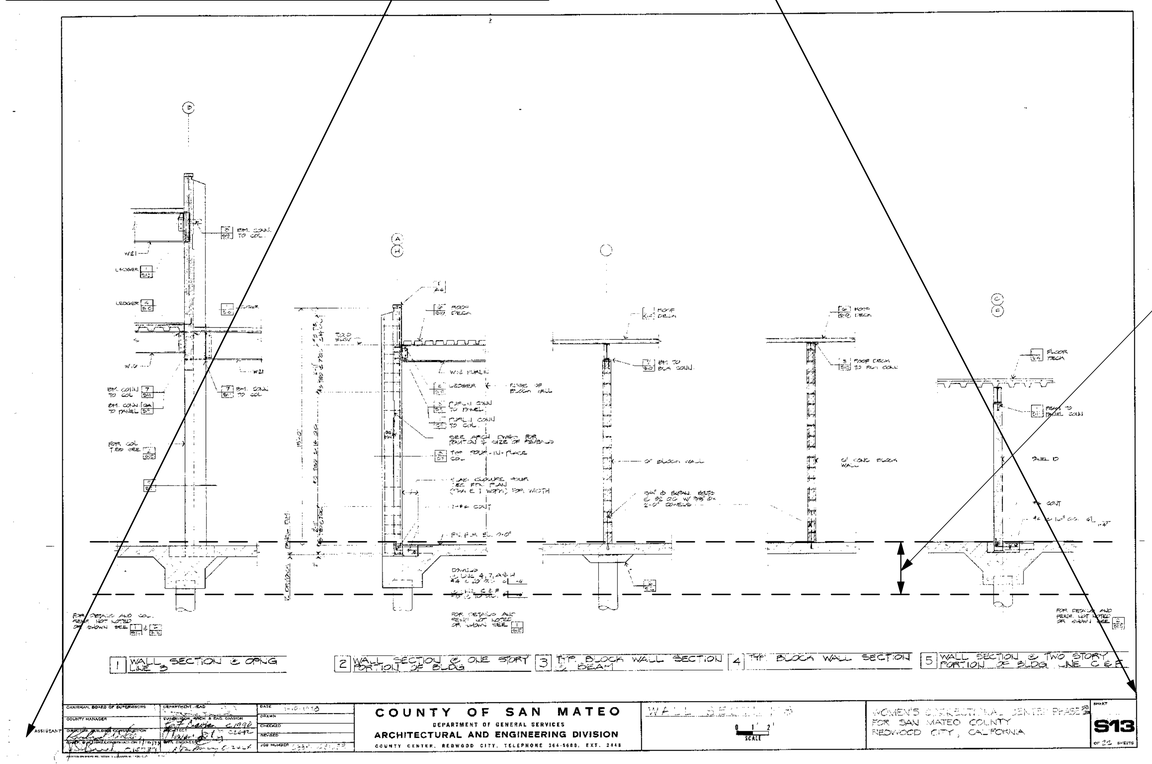


1 Jail Existing Wall Sections (NTS)



2 Jail Existing Wall Sections (NTS)

CUT ALL (E) PILES OFF 3'-0" BELOW (E) F.F. BACKFILL PILE AND FOUNDATION VOIDS W/ CLASS II AGG BASE

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◦ SHEET TITLE ◦

JAIL DEMO - MISC STRUCT WALL SECTIONS & DETAILS

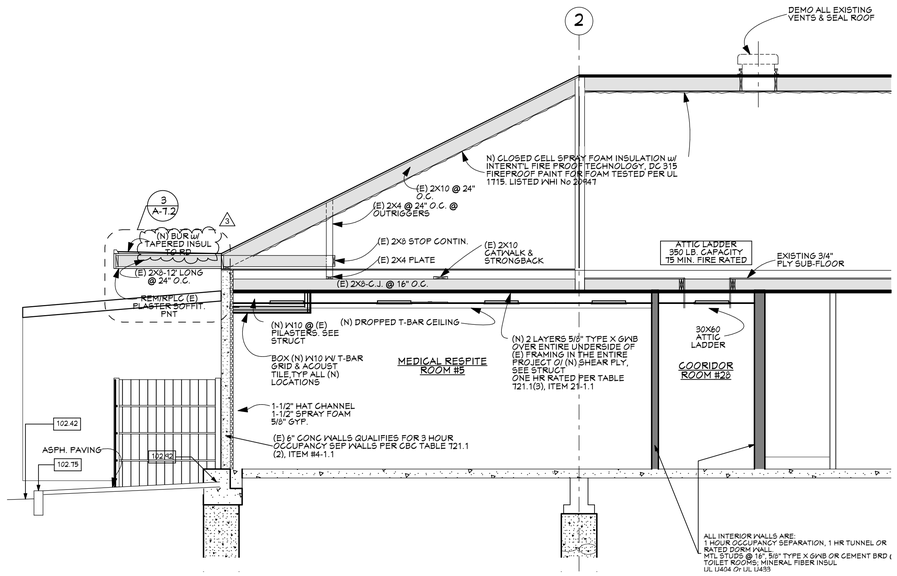
◦ REVISIONS ◦

No.	Date	Notes
2	9-23-2016	PC#2/ Add #6

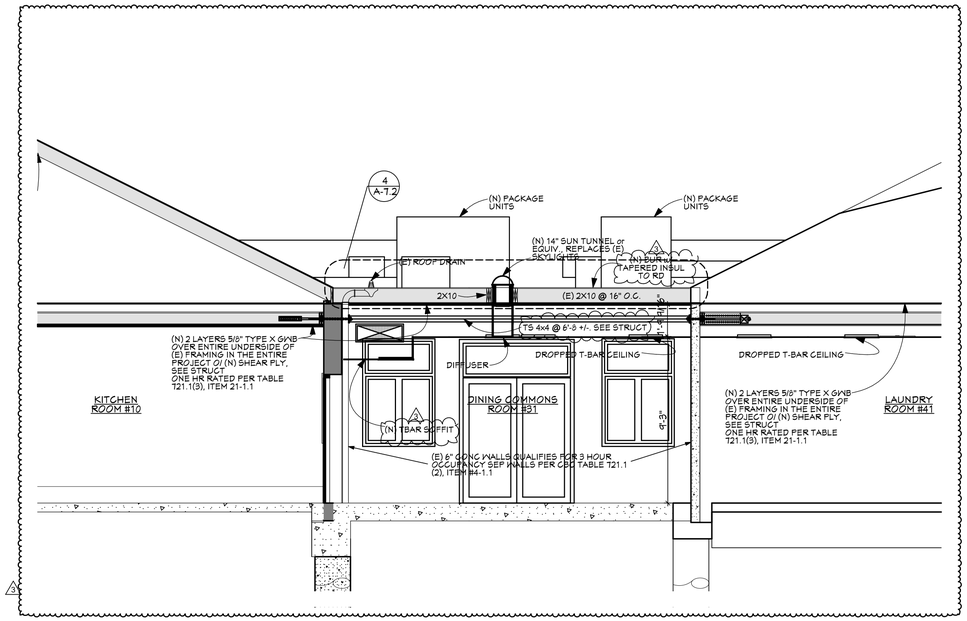
◦ JOB: 2015.2801

◦ DATE: 6/17/2016

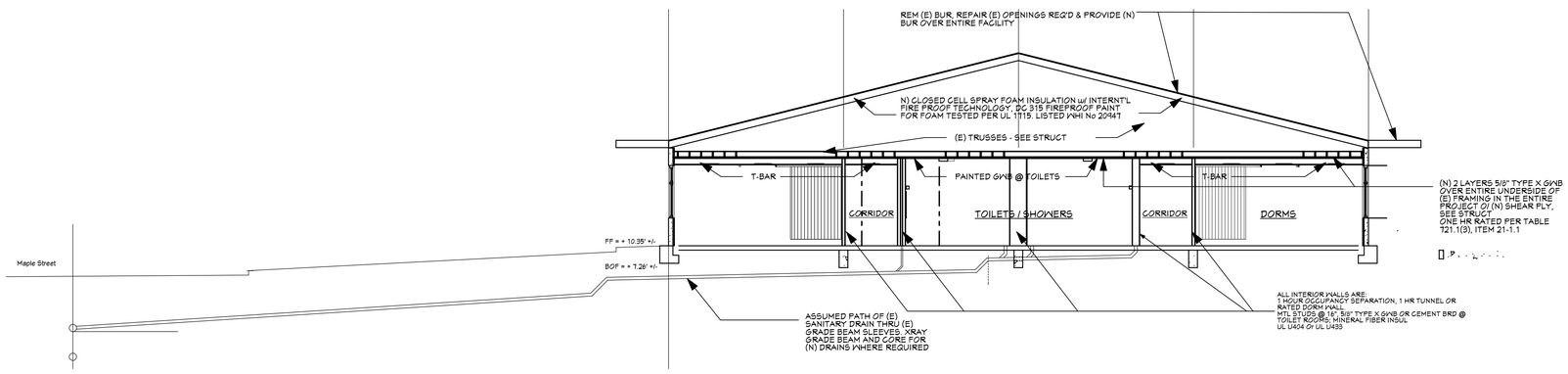
◦ SHEET: JD-2.12



1 Partial Cross Section @ Medical Respite 1/4" = 1'-0"



1 Partial Cross Section @ dinning commons 1/4" = 1'-0"



3 Cross Section with SS line detail 1/4" = 1'-0"

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BUILDING SECTIONS

◦ REVISIONS ◦

No.	Date	Notes
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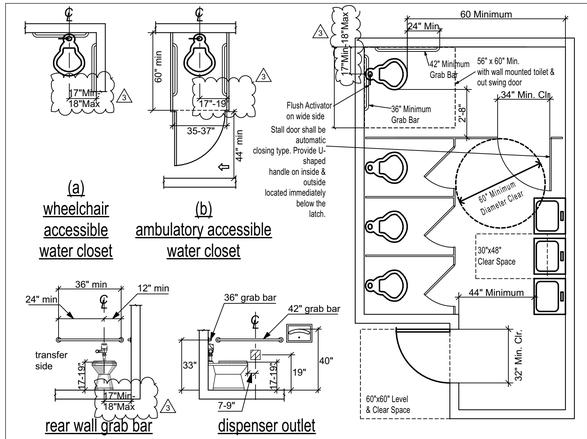
2	8-15-2016	PC#1/ Add #3
3	9-23-2016	PC#2/ Add #6

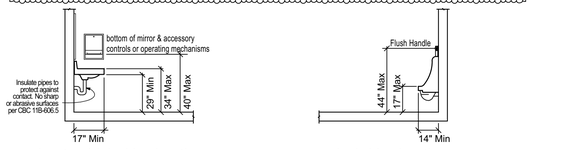
◦ JOB: 2015.2801

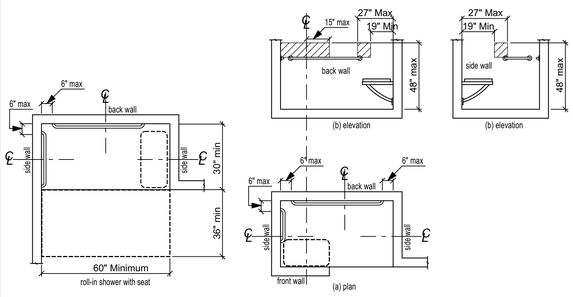
◦ DATE: 6/17/2016

◦ SHEET: A-4.1



TOILET ROOM GENERAL NOTES
1. Wall mounting of visible signals is required to have the lens of the strobe mounted not less than 80 inches and not greater than 96 inches above the finished floor.
2. Walls and partitions within 2 feet of water closet & urinal shall have smooth, non absorbent surface to a height of 4 feet above floor. CBC 1210.2.2
3. Toilet floors have a smooth, hard, nonabsorbent surface. The intersections of such floors with walls shall have smooth, hard, nonabsorbent vertical base that extends upward onto the wall at least 4 inches. CBC 1210.2.1
4. Flush control shall be located 44" max above finished floor (for water closet and urinal).

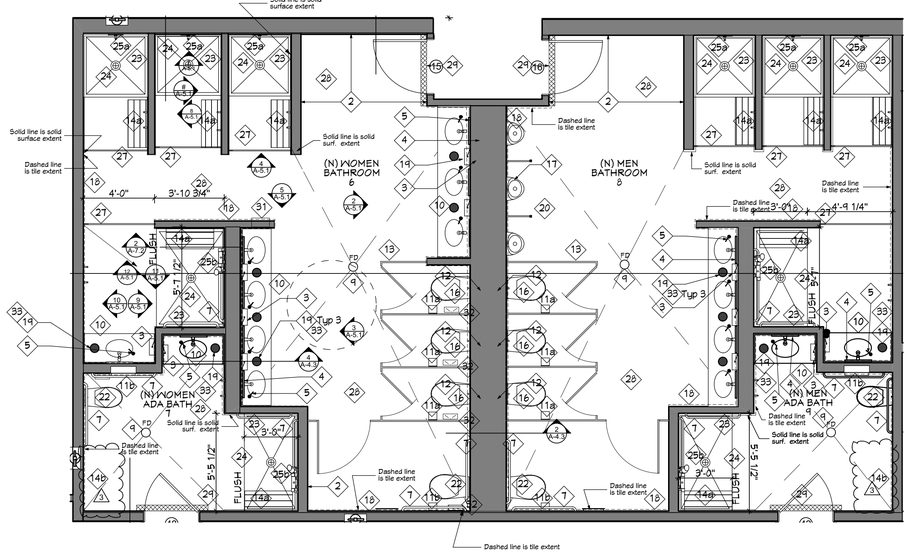




Typical ADA Dimensions

SHEET NOTES:

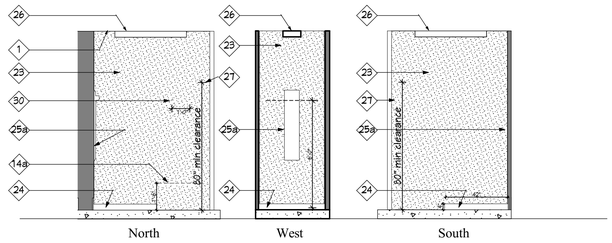
1. Painted GWB ceiling on wd framing
2. Painted GWB
3. Paper towel dispenser Bradley 250-15
4. Mirror with shelf (Typical) Bradley model 7805-1836
5. Soap dispenser (Typical) Bradley 6324
6. LED strip light, moisture resistant. See electrical
7. Grab bar. Provide in wall 4 x 6 blk'g w/ A35 clips T & B (Typical). Bradley #812
8. Hollow mtl. frame & wood door; paint
9. F.D. slope to drain
10. Solid surface counter with undermount sinks Bradley OmniDeck 3000 series
11a. T.P. dispenser, Partition mounted (Typical) Bradley #5402
11b. T.P. ADA combi-dispenser, recess mounted (Typical) Bradley #5422
12. Wall mounted seat cover dispenser (Typical) Bradley #584
13. Floor mounted, overhead braced toilet screen partition. Provide in wall 4 x 6 blk'g Bradley HDPE series 400
14a. Shower bench (Typical). See sheet A-7.8 #T & #10 for dimensions and detail
14b. NOT USED
15. ADA wrap @ drn, HW, CW, (Typical)
16. Floor mounted WC. See plumb'g (typical)
17. Urinal (Typical)
18. Ceramic tile o/ cement brd. Height as dimensioned.
19. Cut out in counter for waste w/ Bradley Waste Chute Model P10-696. See MFG's instructions for cut out size. Order with OmniDeck.
20. Wall mounted urinal screen, min 18" deep from wall, max 12" above floor and min. 5' above floor to top of partition with full height post floor to ceiling.
22. Floor mounted ADA WC. See plumb'g (Typical)
23. Floor-to-Ceiling solid surface @ showers (Typical)
24. Solid surface, 1-Piece shower pan with curb 4 sides. ADA solid surface shower pan, curb 3 sides. Grifform brand.
25a. Shower unit (Typical) Symmons Hydalpe 1-411RS
25b. ADA Shower unit (Typical) Symmons Hydalpe 1-8015-FSB
26. Surface mount ceiling light LED (Typical) Moisture resistant. See electrical.
27. Shower Curtain (Typical) 80" min clearance required
28. UCrete heavy duty non-slip polyurethane floor (Typical)
29. Trench drain (Typical)
30. Security Towel Hook, Bradley 5A36 (Typical) (2) @ each shower.
31. Semi recessed napkin/tampon vendor,Bradley 4017-10
32. Surface napkin/tampon disposal receptacle, Bradley 4722-15
33. Floor standing waste receptacle,Bradley 377-36-97



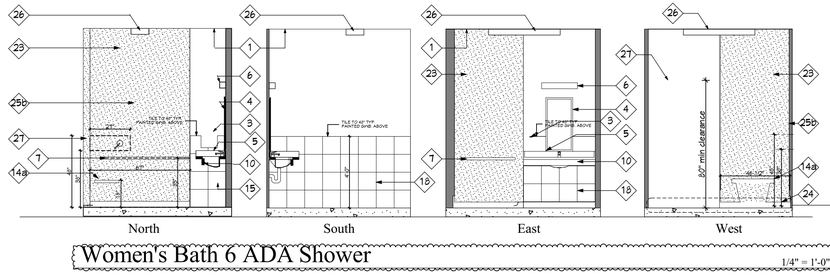
1 South Bathroom Core 1/4" = 1'-0"

N

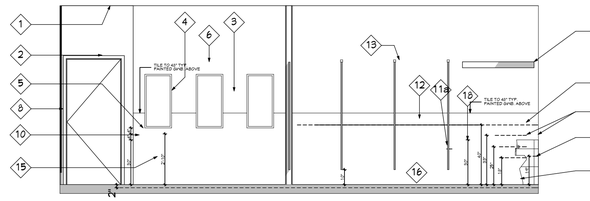
SEE SHEET A-7.11 FOR ADA CLEARANCES AT DOORS AND FIXTURES FOR THIS PROJECT



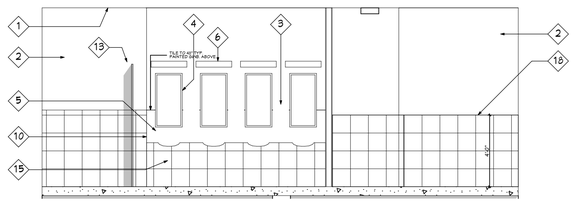
Women's Bath 6 Standard Shower 1/4" = 1'-0"



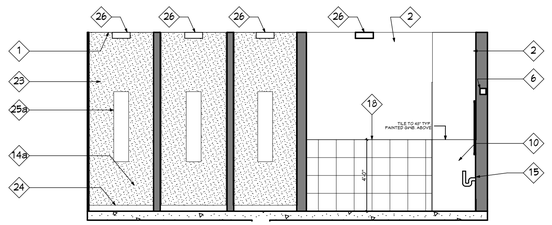
Women's Bath 6 ADA Shower 1/4" = 1'-0"



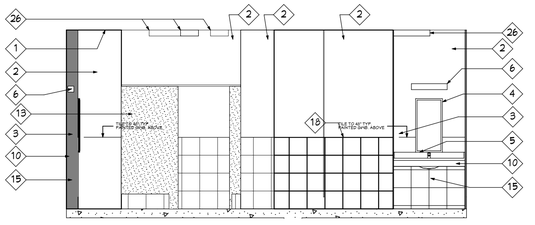
2 Women's Bath 6 North 1/4" = 1'-0"



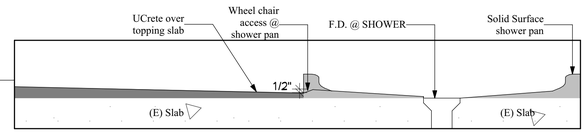
3 Women's Bath 6 South 1/4" = 1'-0"



4 Women's Bath 6 East 1/4" = 1'-0"



5 Women's Bath 6 West 1/4" = 1'-0"



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LICENSED ARCHITECT CARTER JENSEN WANN No. C-19397 REN. 6-30-17 STATE OF CALIFORNIA

◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

ADA BATHROOM DETAIL

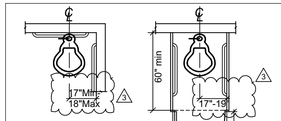
◦ REVISIONS ◦

No.	Date	Notes
1	6-17-2016	Building Submittal
2	8-15-2016	PC#1/ Add #3
3	9-23-2016	PC#2/ Add #6

◦ JOB: 2015.2801

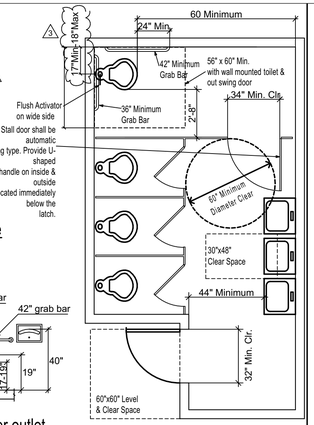
◦ DATE: 6/17/2016

◦ SHEET: A-5.1

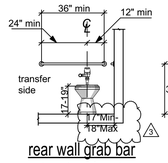


(a) wheelchair accessible water closet

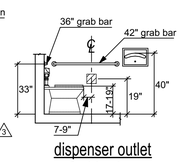
(b) ambulatory accessible water closet



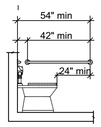
multiple accomodation toilet



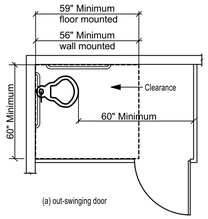
rear wall grab bar at water closets



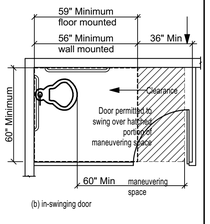
dispenser outlet & side view



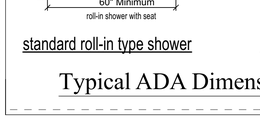
side wall grab bar at water closets



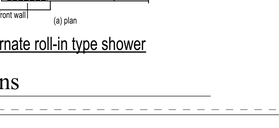
maneuvering space with side-opening door



maneuvering space with side-opening door

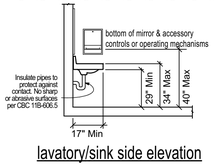


maneuvering space with side-opening door

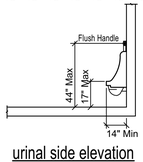


maneuvering space with side-opening door

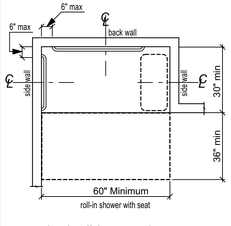
TOILET ROOM GENERAL NOTES
1. Wall mounting of visible signals is required to have the lens of the strobe mounted not less than 80 inches and not greater than 96 inches above the finished floor.
2. Walls and partitions within 2 feet of water closet & urinal shall have smooth, non absorbent surface to a height of 4 feet above floor. CBC 1210.2.2
3. Toilet floors have a smooth, hard, nonabsorbent surface. The intersections of such floors with walls shall have smooth, hard, nonabsorbent vertical base that extends upward onto the wall at least 4 inches. CBC 1210.2.1
4. Flush control shall be located 44" max above finished floor (for water closet and urinal).



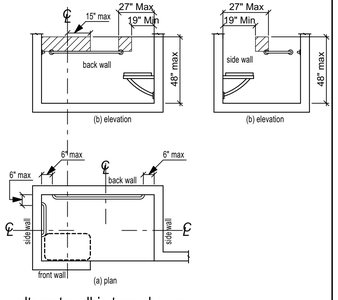
lavatory/sink side elevation



urinal side elevation



standard roll-in type shower

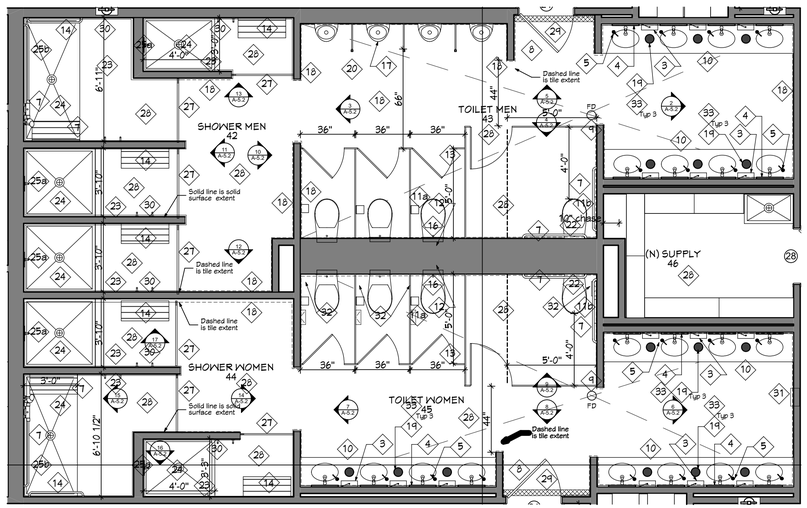


alternate roll-in type shower

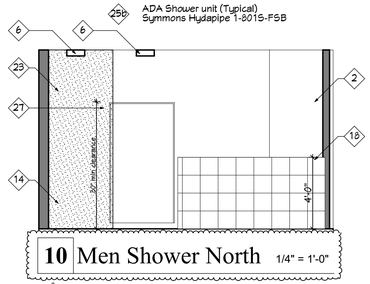
Typical ADA Dimensions

SHEET NOTES:

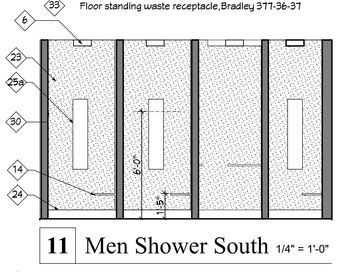
1. Painted GWB ceiling on wd framing
2. Painted GWB
3. Paper towel dispenser Bradley 250-15
4. Mirror with shelf (Typical) Bradley model 1805-1836
5. Soap dispenser (Typical) Bradley 6324
6. LED strip light, moisture resistant. See electrical
7. Grab bar. Provide in wall 4 x 6 blk'g w/ A35 clips T & B (Typical). Bradley #812
8. Hollow mtl. frame & wood door; paint
9. F.D. slope to drain
10. Solid surface counter with undermount sinks Bradley OmniDeck 3000 series
11a. T.P. dispenser, Partition mounted (Typical) Bradley #5402
11b. T.P. ADA combi-dispenser, recess mounted (Typical) Bradley #5422
12. Wall mounted seat cover dispenser (Typical) Bradley #584
13. Floor mounted, overhead braced toilet screen partition. Provide in wall 4 x 6 blk'g Bradley HDPE series 400
14. Shower bench - folding (Typical) Bradley 150
15. ADA wrap @ drn, HW, CW, (Typical)
16. Floor mounted WC. See plumb'g (typical)
17. Urinal (Typical)
18. Ceramic tile o/ cement brd. Height TO 48" (dashed lines shows extenty of tile)
19. Cut out in counter for waste w/ P10-696 See MFG's instructions for cut out size. Order with OmniDeck.
20. Wall mounted urinal screen, min 18" deep from wall, max 12" above floor and min. 5' above floor to top of partition with full height post floor to ceiling.
22. Floor mounted ADA WC. See plumb'g (Typical)
23. Floor-to-Ceiling solid surface @ showers (Typical) (solid line shows extent of solid surface)
24. Solid surface, 1-Piece shower pan with curb 4 sides. ADA solid surface shower pan, curb 3 sides. Grifform brand.
25a. Shower unit (Typical) Symmons Hydapipe 1-411RS
25b. ADA Shower unit (Typical) Symmons Hydapipe 1-501S-FSB
26. Surface mount ceiling light LED (Typical) Moisture resistant. See electrical.
27. Shower Curtain (Typical) 80" min clearance required.
28. UCrete heavy duty non-slip polyurethane floor (Typical)
29. Trench drain (Typical)
30. Security Towel Hook, Bradley SA36 (Typical) (2) @ each shower.
31. Semi recessed napkin/tampon vendor,Bradley 4017-10
32. Surface napkin/tampon disposal receptacle, Bradley 4722-15
33. Floor standing waste receptacle,Bradley 377-36-37



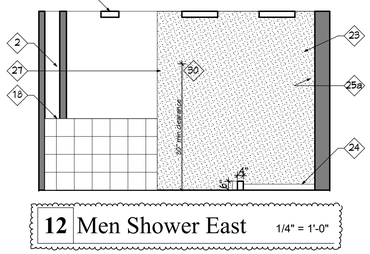
1 Main Floor - Enlarged 1/4" = 1'-0"



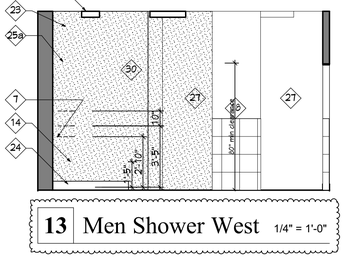
10 Men Shower North 1/4" = 1'-0"



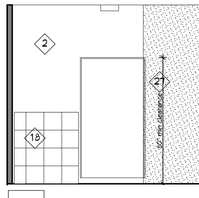
11 Men Shower South 1/4" = 1'-0"



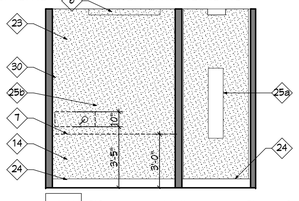
12 Men Shower East 1/4" = 1'-0"



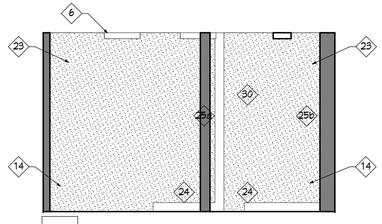
13 Men Shower West 1/4" = 1'-0"



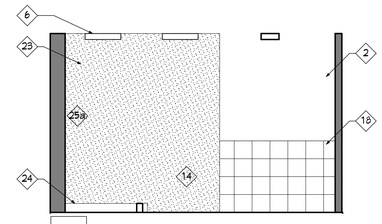
14 Shower Women North



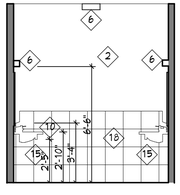
15 Shower Women South



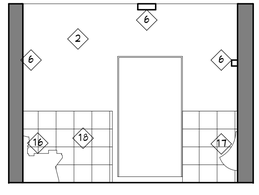
16 Shower Women East



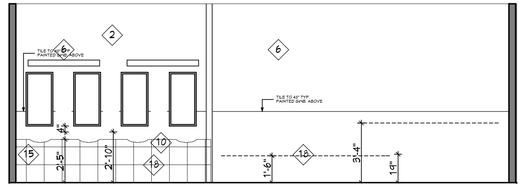
17 Shower Women West



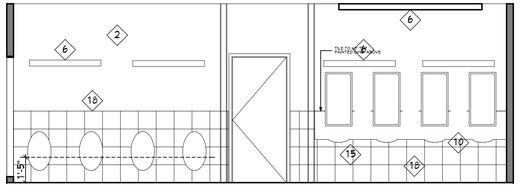
2 Men's North 1/4" = 1'-0"



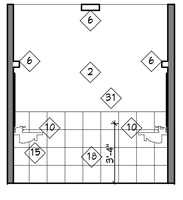
3 Men's South 1/4" = 1'-0"



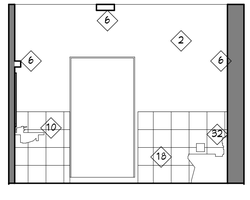
4 Men's - East 1/4" = 1'-0"



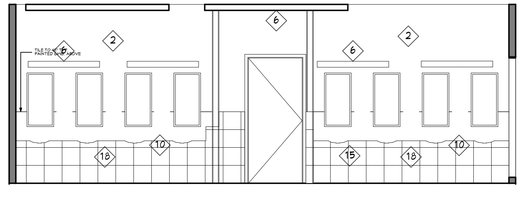
5 Men's - West 1/4" = 1'-0"



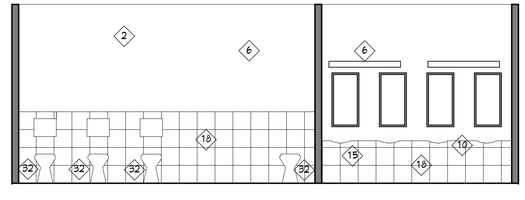
6 Women's North 1/4" = 1'-0"



7 Women's South 1/4" = 1'-0"



8 Women's East 1/4" = 1'-0"



9 Women's West 1/4" = 1'-0"

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LICENSED ARCHITECT CARTER JENSEN WARD No. C-19397 REN. 6-30-17 STATE OF CALIFORNIA

PROJECT

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

SHEET TITLE

ADA BATHROOM DETAIL

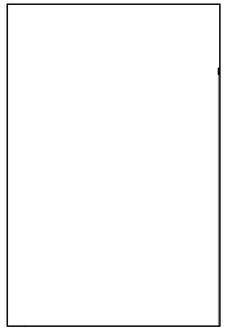
REVISIONS

No.	Date	Notes
1	6-17-2016	Building Submittal
2	8-15-2016	FC#1/ Add #3
3	9-23-2016	FC#2/ Add #6

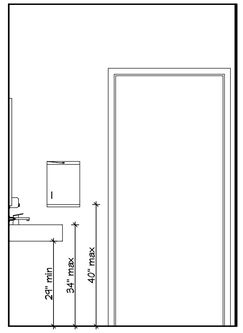
JOB: 2015.2801

DATE: 6/17/2016

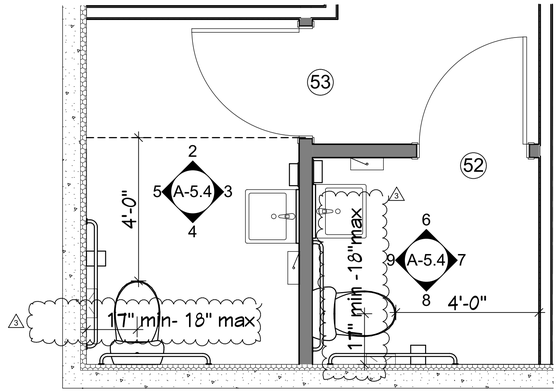
SHEET: A-5.2



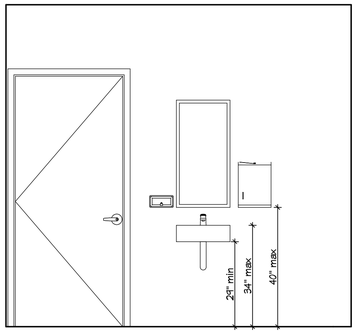
2 STAFF TOILET 13 1/2" = 1'-0"



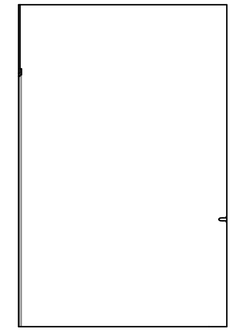
6 STAFF TOILET 14 1/2" = 1'-0"



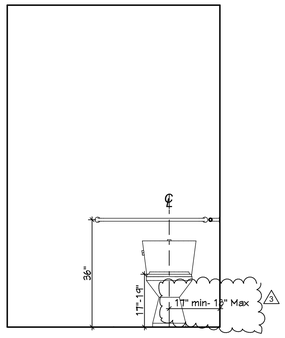
1 Staff Toilets 1/2" = 1'-0"



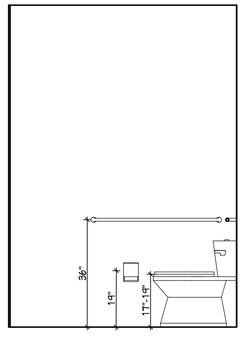
3 STAFF TOILET 13 1/2" = 1'-0"



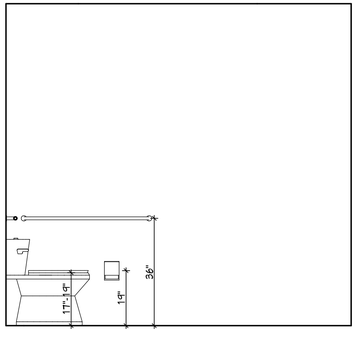
7 STAFF TOILET 14 1/2" = 1'-0"



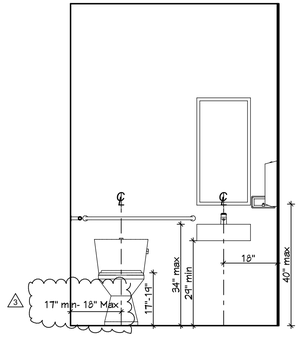
4 STAFF TOILET 13 1/2" = 1'-0"



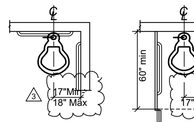
8 STAFF TOILET 14 1/2" = 1'-0"



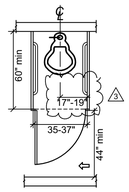
5 STAFF TOILET 13 1/2" = 1'-0"



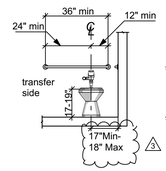
9 STAFF TOILET 14 1/2" = 1'-0"



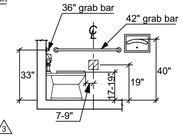
(a) wheelchair accessible water closet



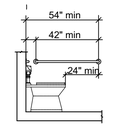
(b) ambulatory accessible water closet



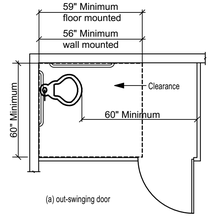
rear wall grab bar at water closets



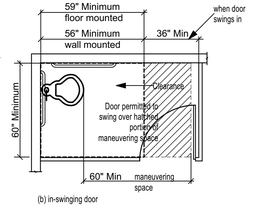
dispenser outlet & side view



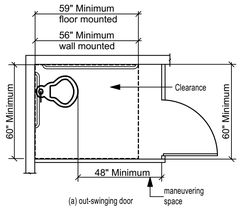
side wall grab bar at water closets



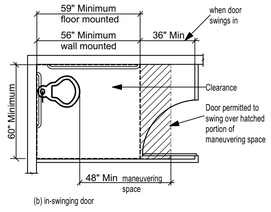
maneuvering space with side-opening door



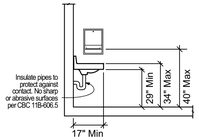
maneuvering space with side-opening door



maneuvering space with side-opening door



maneuvering space with side-opening door



lavatory/sink side elevation

TOILET ROOM GENERAL NOTES
1. Wall mounting of visible signals is required to have the lens of the strobe mounted not less than 80 inches and not greater than 96 inches above the finished floor.
2. Walls and partitions within 2 feet of water closet & urinal shall have smooth, non absorbent surface to a height of 4 feet above floor. CBC 1210.2.2
3. Toilet floors have a smooth, hard, nonabsorbent surface. The intersections of such floors with walls shall have smooth, hard, nonabsorbent vertical base that extends upward onto the wall at least 4 inches. CBC 1210.2.1
4. Flush control shall be located 44" max above finished floor (for water closet and urinal).

Typical ADA Dimensions

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LICENSED ARCHITECT CARTER JENSEN WARD No. C-19397 REN. 6-30-17 STATE OF CALIFORNIA

◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

STAFF TOILETS

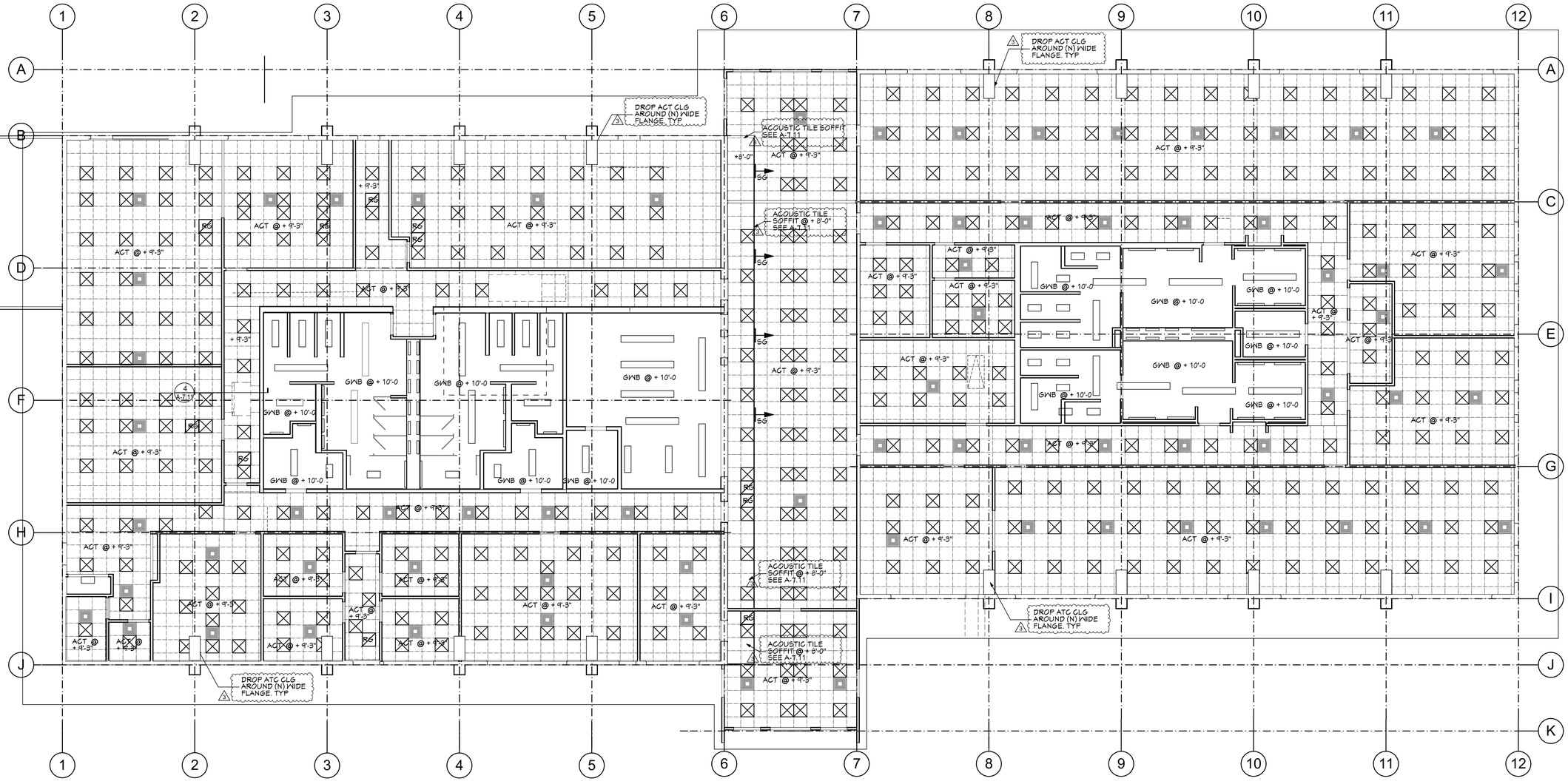
◦ REVISIONS ◦

No.	Date	Notes
2	8-15-2016	PC#1/ Add #3
3	9-23-2016	PC#2/ Add #6

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: A-5.4



LEGEND

- 2' x 2' ACCOUSTIC CEILING TILE w/ HANGING T-BAR SUPPORT.
- 2' x 2' L.E.D. DOWNLIGHT
- 2' x 2' HVAC DIFUSSER VENT
- 1' x 2' L.E.D or FLOUR. SURFACE MOUNTED LIGHT
- 1' x 4' L.E.D or FLOUR. SURFACE MOUNTED LIGHT
- 1' x 8' L.E.D or FLOUR. SURFACE MOUNTED LIGHT
- 2' L.E.D SURFACE MOUNTED WALL LIGHT
- 4' L.E.D SURFACE MOUNTED WALL LIGHT
- 9' L.E.D SURFACE MOUNTED WALL LIGHT

CEILING HEIGHTS

ALL DROPPED T-BAR CEILINGS ARE 9'-3". ADJUST T-BAR CEILING HEIGHT AS REQUIRED FOR ROOM SPECIFIC CONDITIONS.

1 Reflected Ceiling Plan — 1/8" = 1'-0"

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◦ SHEET TITLE ◦

REFLECTED CEILING PLAN

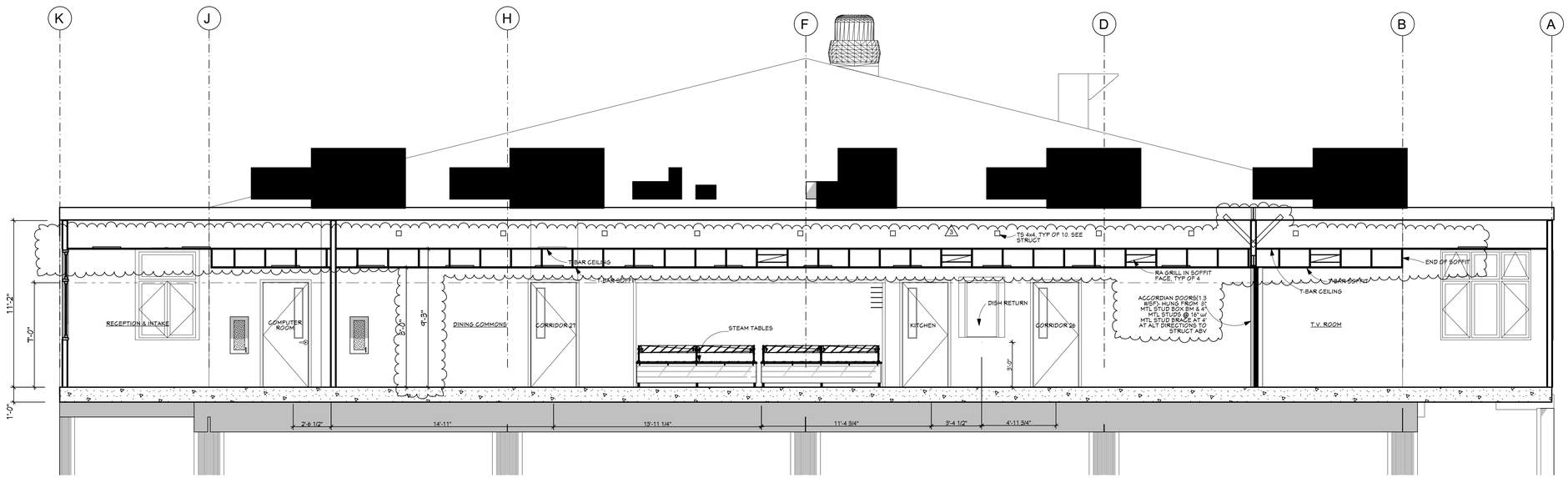
◦ REVISIONS ◦

No.	Date	Notes
1	6-17-2016	Building Submittal
2	9-23-2016	FCG & Add #6

◦ JOB: 2015.2801

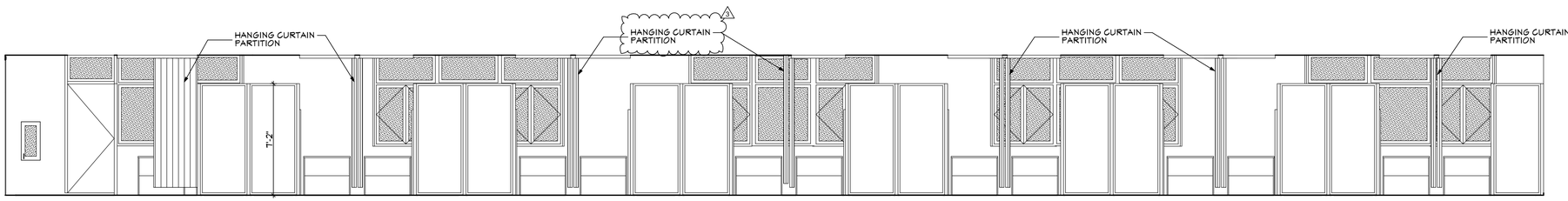
◦ DATE: 6/17/2016

◦ SHEET: A-6.1



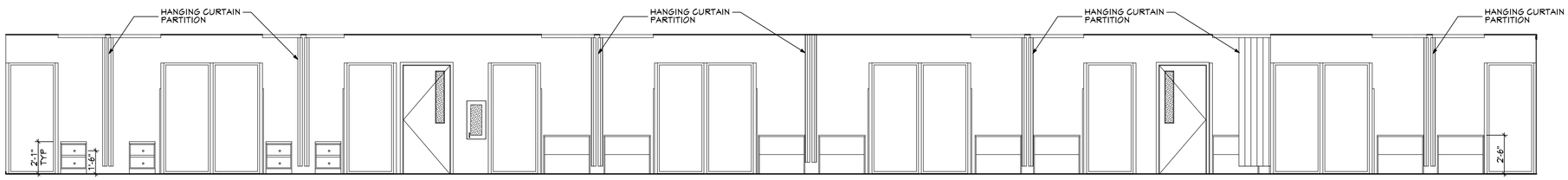
1 Wall 6 ELEVATION

SCALE: 1/4" = 1'-0"



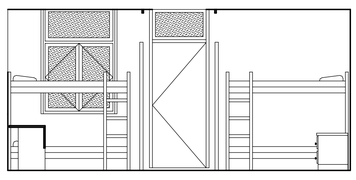
2 MEN - TRANSITIONAL HOUSING 33

SCALE: 1/4" = 1'-0"



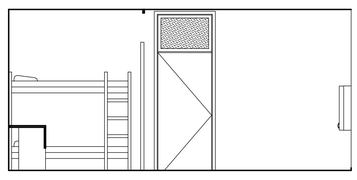
4 MEN - TRANSITIONAL HOUSING 33

SCALE: 1/4" = 1'-0"



3 MEN - TRANSITIONAL HOUSING 33

SCALE: 1/4" = 1'-0"



5 MEN - TRANSITIONAL HOUSING 33

SCALE: 1/4" = 1'-0"

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REN. 6-30-17
STATE OF CALIFORNIA

◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

INTERIOR ELEVATIONS

◦ REVISIONS ◦

No.	Date	Notes
1	4-1-2016	Building
2	9-23-2016	FC#2/ADD #6

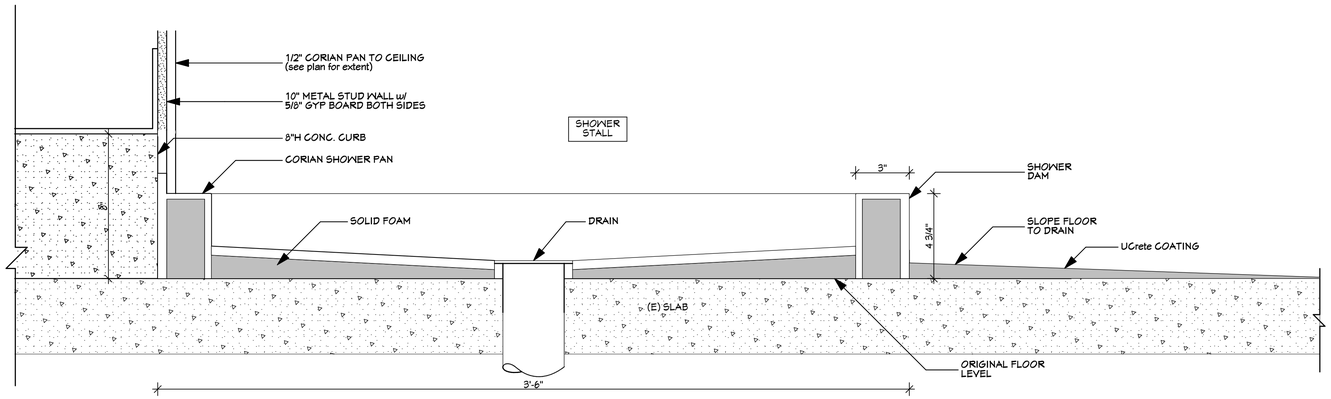
◦ JOB: 2015.2801

◦ DATE: 6/17/2016

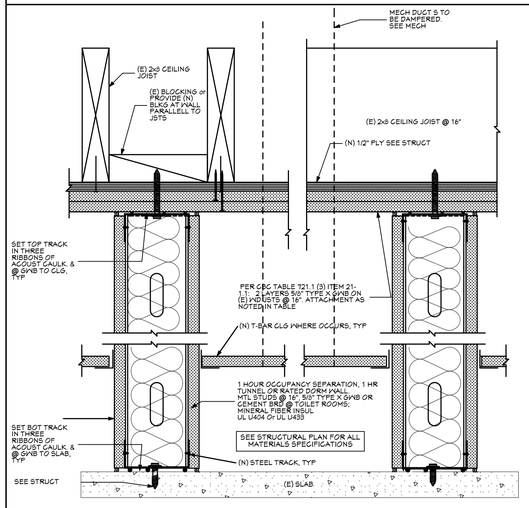
◦ SHEET: A-6.3

Monday, September 26, 2016 4:14 PM

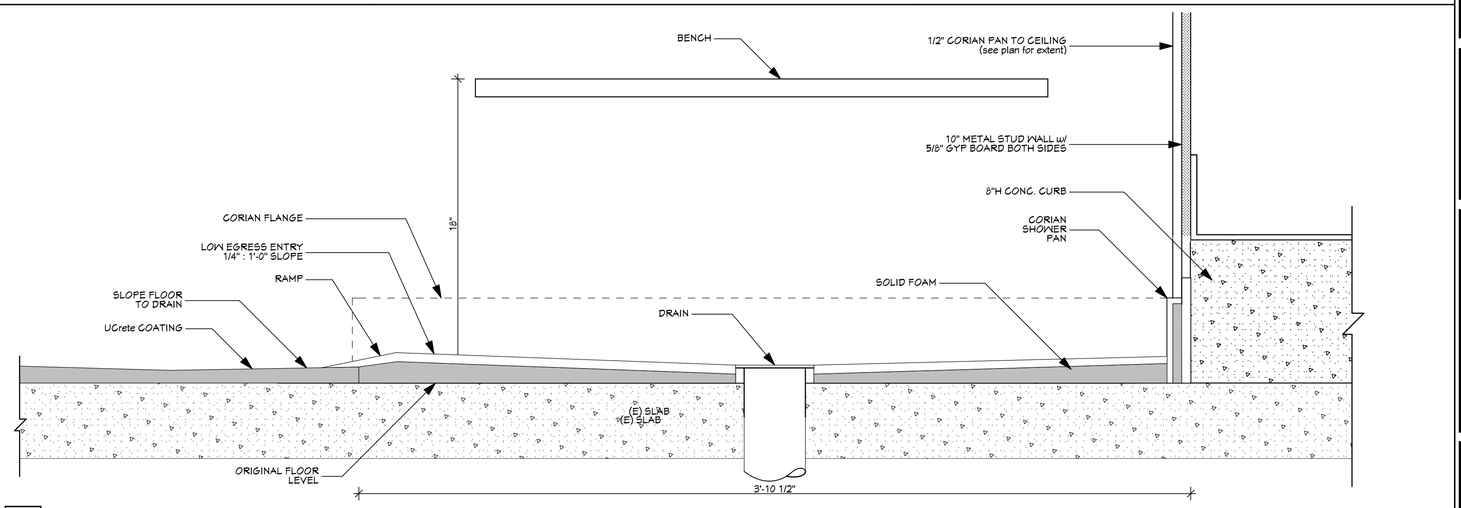
BIM Server: CJW BIM Server 19 – BIM Server 19/2015/Maple Street Shelter_1



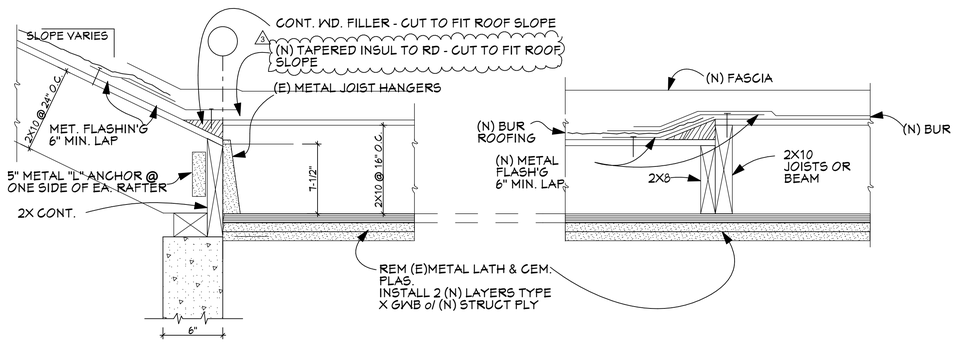
1 BATH 6 WOMEN SHOWER 3" = 1'-0"



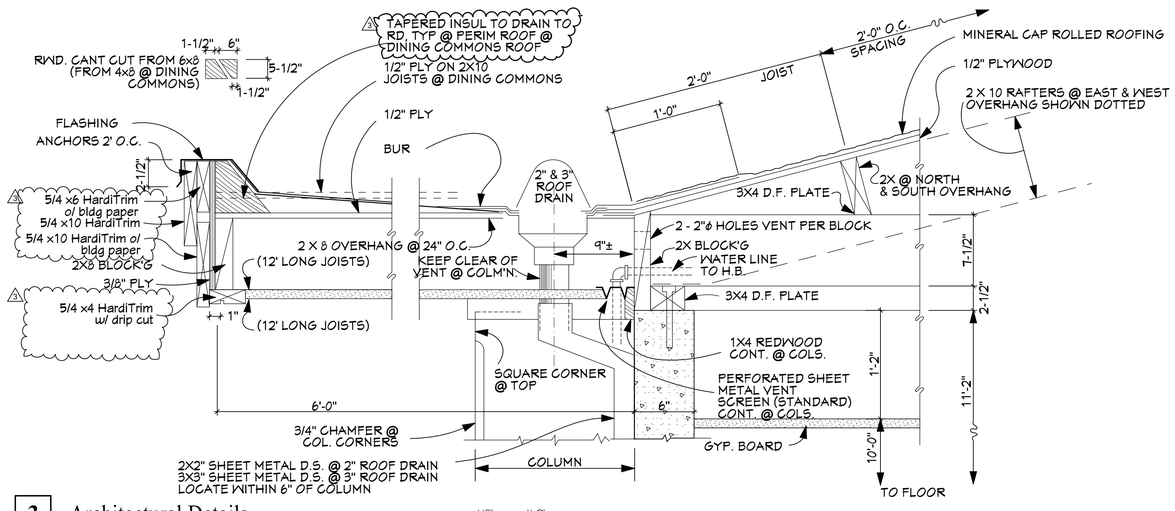
5 1 HR. CORRIDOR & AREA SEP. WALL 3" = 1'-0"



2 BATH 6 WOMEN ADA SHOWER 3" = 1'-0"



4 Architectural Details 1/8" = 1'-0"



3 Architectural Details 1/8" = 1'-0"

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LICENSED ARCHITECT
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No. C-19397
REN. 6-30-17
STATE OF CALIFORNIA

◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

DETAILS

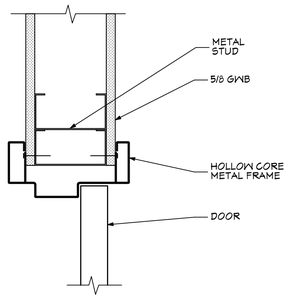
◦ REVISIONS ◦

No.	Date	Notes
1	6-17-2016	Building Submittal
2	8-15-16	Bldg Comments/Add #1
3	9-23-2016	FCC & Add #6

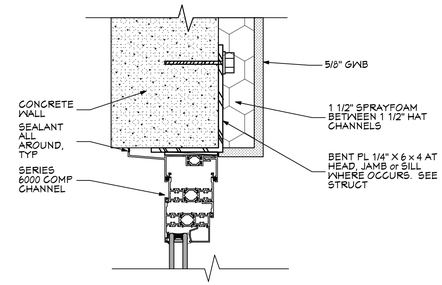
◦ JOB: 2015.2801

◦ DATE: 6/17/2016

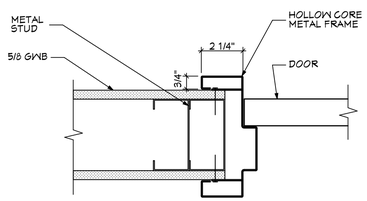
◦ SHEET: A-7.2



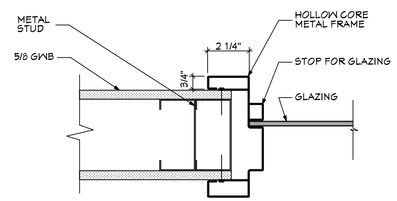
10 Interior Door Header 3" = 1'-0"



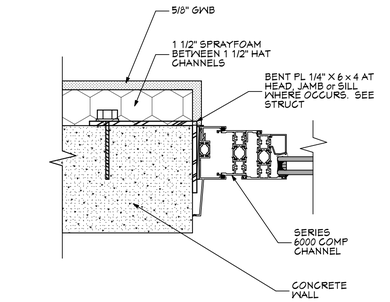
1 Exterior Window Header 3" = 1'-0"



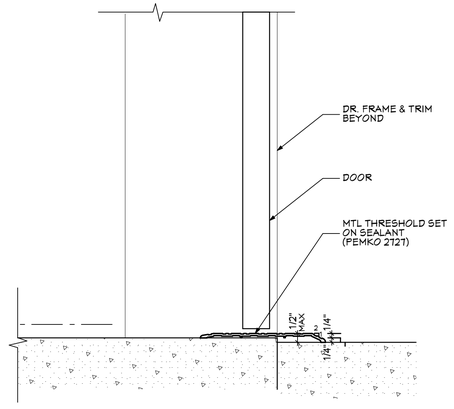
11 Interior Door Jamb 3" = 1'-0"



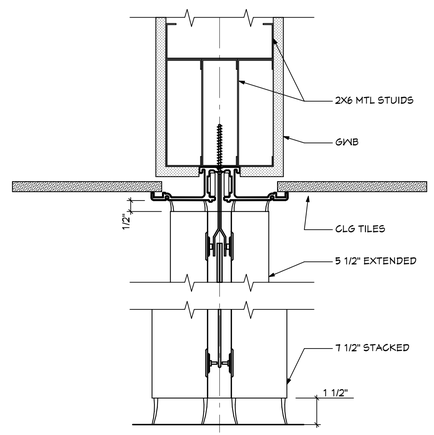
5 Interior Window Jamb 3" = 1'-0"



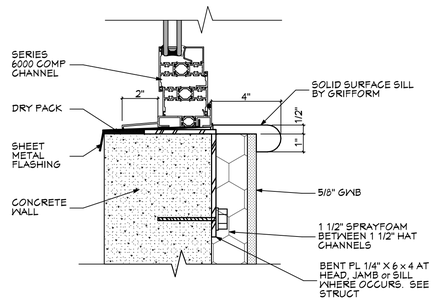
2 Exterior Window Jamb 3" = 1'-0"



9 Exterior Door Threshold 3" = 1'-0"



△3 **6** Accordian Door Section 3" = 1'-0"



3 Exterior Window Sill 3" = 1'-0"

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◦ SHEET TITLE ◦

WINDOW & DOOR DETAILS

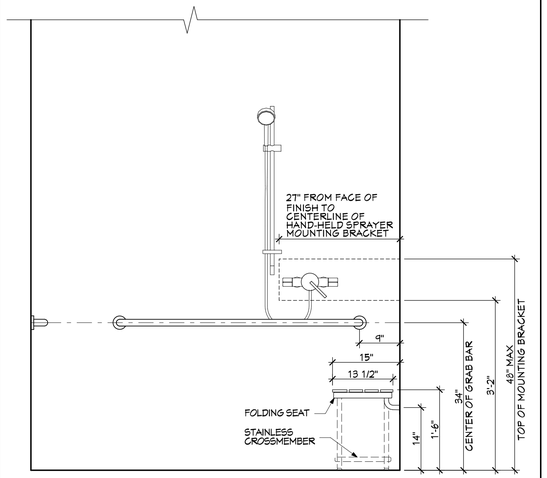
◦ REVISIONS ◦

No.	Date	Notes
2	8-15-2016	PC#1/ Add #3
3	9-23-2016	PCC & Add #6

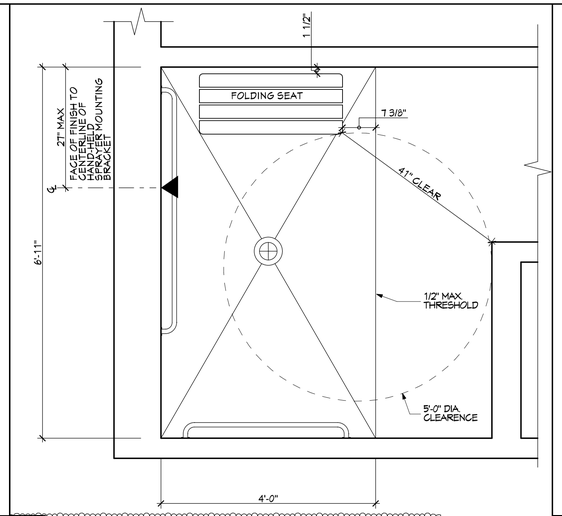
◦ JOB: 2015.2801

◦ DATE: 6/17/2016

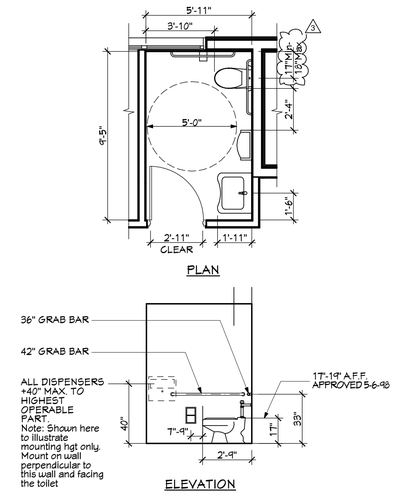
◦ SHEET: A-7.5



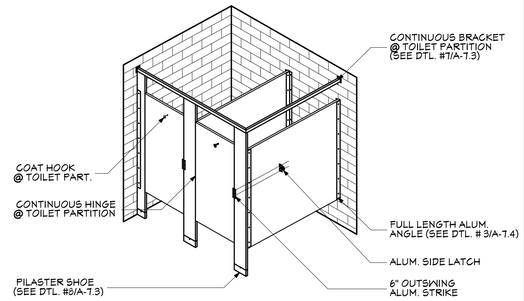
10 ACCESSIBLE SHOWER STALL ELEV △2 3/4" = 1'-0"



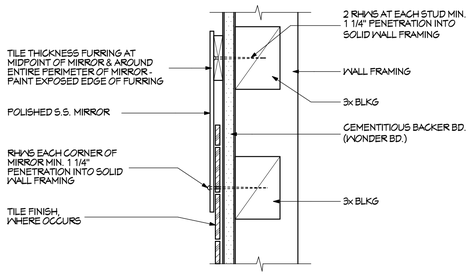
7 ACCESSIBLE SHOWER STALL DETAIL △3 3/4" = 1'-0"



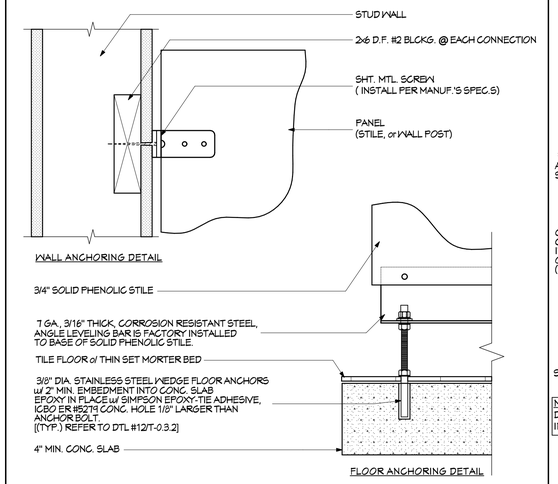
4 ADA TOILET TYP. 1/4" = 1'-0"



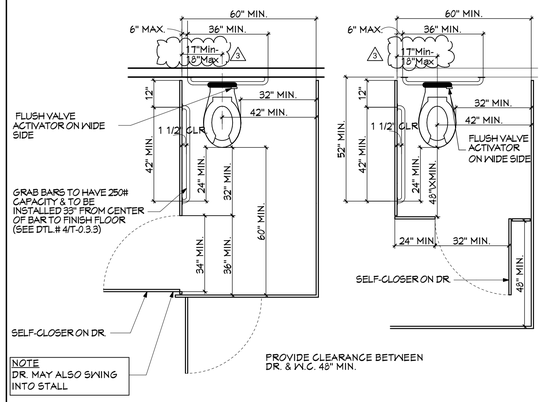
1 TYP. TOILET PARITION 1/4" = 1'-0"



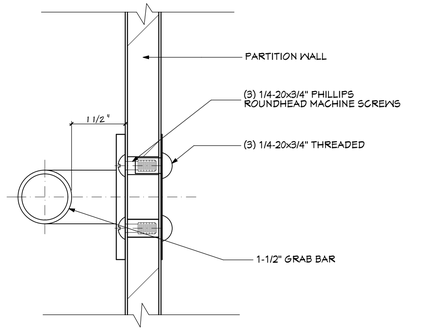
11 MIRROR TILE WAINSCOAT DETAIL 3" = 1'-0"



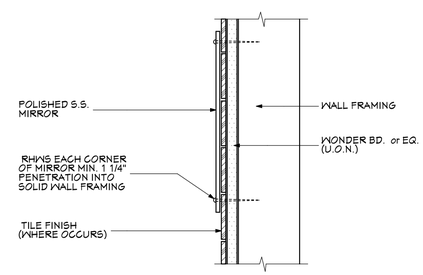
8 FLOOR & WALL ANCHORING DETAILS 3" = 1'-0"



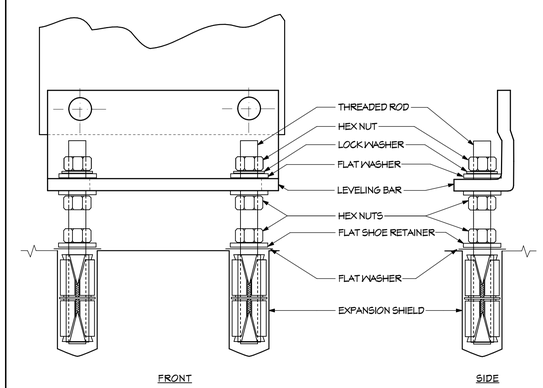
5 ACCESSIBLE TOILET STALLS 3/8" = 1'-0"



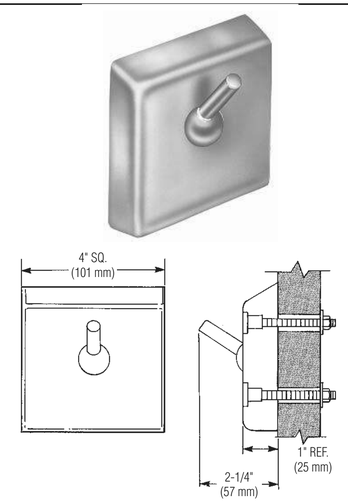
2 TOILET PARTITION GRAB BAR DETAIL 6" = 1'-0"



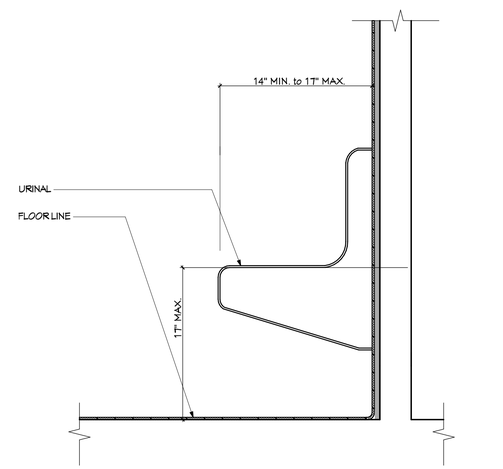
12 TYP. MIRROR DETAIL 3" = 1'-0"



9 TOILET PARTITION INSTALLATION 1 1/2"= 1'-0"



6 ROBE HOOKS △2 6" = 1'-0"



3 ACCESSIBLE URINAL DTL 1 1/2"= 1'-0"

CJ W ARCHITECTURE
130 Portola Road, suite A
Portola Valley, CA 94028
(650) 851-9335 / (Fax) 851-9337

LICENSED ARCHITECT CARTER JENSEN WARD No. C-19397 REN. 6-30-17 STATE OF CALIFORNIA

◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

ADA DETAILS

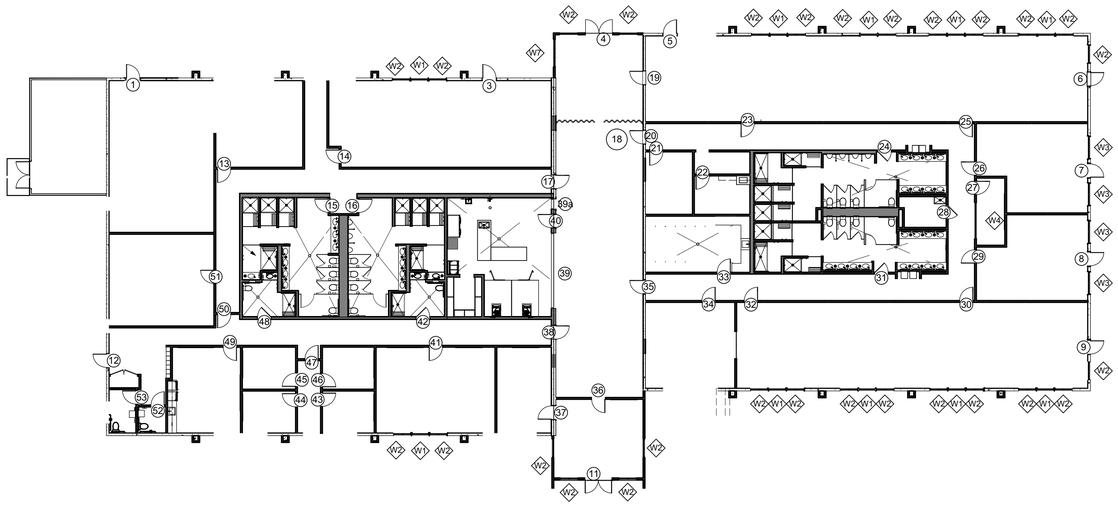
◦ REVISIONS ◦

No.	Date	Notes
1	6-17-2016	Building Submittal
△2	8-15-2016	Plan Check Comments
△3	9-23-2016	PG#2/Add #6

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: A-7.8

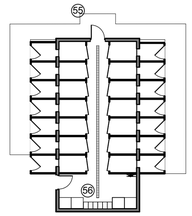


2 Door/Wdw Reference Plan

1/16" = 1'-0"

GENERAL NOTES:

A) Accessible hardware is centered between 34" and 44" above the floor. CBC 11B-404.2.7
B) Provide and reference detail on floor plan to show that floor in the direction of travel shall not be more than ½" lower than the threshold of the doorway. Change in level between ¼" and ½" shall be beveled with a slope no greater than 1 unit vertical to 2 units horizontal (50% slope). CBC 11B-404.2.5
C) Operable parts of doors shall comply with CBC 11B-309.4.
D) Specify that the bottom 10" of all doors to have a smooth, uninterrupted surface to allow the door to be opened by a wheelchair footrest without creating a trap or hazardous condition. CBC 11B-404.2.10



DOOR AND FRAME SCHEDULE

No.	Type	Size Wdth	Size Hgt	Hdwr Grp	Dr Mtrl.	Door Frame Matl	Head	Jamb	Threshold	Fire Rtg.	Swing	Notes
1	A	3'	7'	A	HM	HM				-	R	TEMPERED LIGHT ABV.
2	A	3'	7'	A	HM	HM				-	R	TEMPERED LIGHT ABV.
3	A	3'	7'	A	HM	HM				-	R	TEMPERED LIGHT ABV.
4	B	6'	7'	B	HM	HM				-	R	TEMPERED LIGHT ABV.
5	A	3'	7'	A	HM	HM				-	R	TEMPERED LIGHT ABV.
6	A	3'	7'	A	HM	HM				-	R	TEMPERED LIGHT ABV.
7	A	3'	7'	A	HM	HM				-	R	TEMPERED LIGHT ABV.
8	A	3'	7'	A	HM	HM				-	R	TEMPERED LIGHT ABV.
9	A	3'	7'	A	HM	HM				-	R	TEMPERED LIGHT ABV.
10	A	3'	7'			HM					R	TEMPERED LIGHT ABV.
11	B	6'	7'	B	HM	HM				-	L	TEMPERED LIGHT ABV.
12	A	3'	7'	A	HM	HM				-	R	TEMPERED LIGHT ABV.
13	C	3'	7'	D	WD	HM				20 MIN	R	
14	C	3'	7'	D	WD	HM				20 MIN	R	
15	C	3'	7'	K	WD	HM				20 MIN	L	
16	C	3'	7'	K	WD	HM				20 MIN	R	
17	C	3'	7'	D	WD	HM				90 MIN	L	
18	L	19'	8'		FOLDING PARTITION	ALUM. TRACK				None		ACCORDIAN PARTITION
19	C	3'	7'	D	WD	HM				90 MIN	L	
20	C	3'	7'	D	WD	HM				90 MIN	L	
21	C	3'	7'	F	WD	HM				20 MIN	L	
22	C	3'	7'	G	WD	HM				20 MIN	L	
23	E	3'	7'	D	WD	HM				20 MIN	L	
24	C	3'	7'	K	WD	HM				20 MIN	L	
25	D	3'	7'	D	WD	HM				20 MIN	R	
26	E	3'	7'	D	WD	HM				20 MIN	R	
27	D	3'	7'	F	WD	HM				20 MIN	L	
28	C	3'	7'	G	WD	HM				20 MIN	R	
29	D	3'	7'	D	WD	HM				20 MIN	R	
30	E	3'	7'	D	WD	HM				20 MIN	L	
31	C	3'	7'	K	WD	HM				20 MIN	R	
32	E	3'	7'	D	WD	HM				20 MIN	L	
33	E	3'	7'	K	WD	HM				20 MIN	L	
34	E	3'	7'	D	WD	HM				90 MIN	L	
35	C	3'	7'	D	WD	HM				-	L	
36	C	3'	7'	C	WD	HM				90 MIN	L	
37	C	3'	7'	E	WD	HM				90 MIN	R	
38	C	3'	7'	D	-	STEEL				90 MIN	L	
39	G	16'-6"	7'	-	STEEL	HM				90 MIN		
39a	M	2'	3'-8"		STEEL	HM				90 MIN		
40	C	3'	7'	E	WD	HM				90 MIN	R	
41	C	3'	7'	G	WD	HM				20 MIN	R	
42	C	3'	7'	E	WD	HM				45 MIN	L	
43	C	3'	7'	J	WD	HM				-	L	
44	C	3'	7'	F	WD	HM				-	L	
45	C	3'	7'	F	WD	HM				-	L	
46	C	3'	7'	F	WD	HM				-	L	
47	C	3'	7'	F	WD	HM				20 MIN	R	
48	C	3'	7'	E	WD	HM				45 MIN	R	
49	C	3'	7'	J	WD	HM				20 MIN	R	
50	C	3'	7'	D	WD	---				45 MIN	L	
51	C	3'	7'	D	WD	---				20 MIN	L	
52	C	3'	7'	H	WD	---				20 MIN	R	
53	C	3'	7'	H	WD	---				20 MIN	R	
54	H	6'	7'	L	WD	---				20 MIN	L	
55	F	3'	7'	A	HM	---				-	L	
56	F	3'	7'	A	HM	---				-	L	

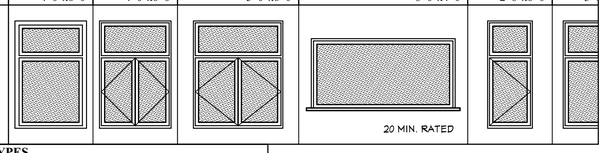
WINDOW SCHEDULE

ID	Size Width	Size Hgt	Material	Head	Jamb	Sill	Type	Head Ht	Quantity	Notes
W1	4'	6'	Aluminum					9'-1 3/4"	1	
W1	4'	6'	Aluminum					9'-2"	13	
W2	4'	6'	Aluminum					9'-1 3/4"	11	
W2	4'	6'	Aluminum					9'-2"	25	
W3	5'	6'	Aluminum					9'-2"	4	
W4	8'	4'	HM				20 MIN. RATED	9'-2"	1	** SEE COMMENT BELOW
W5	2'-6"	6'	Aluminum					9'-2"	1	
W6	3'-6"	6'	Aluminum					9'-2"	1	
W7	6'	6'	Aluminum					9'-2"	1	

**ALLOWABLE SF = 33.75 SF > 32 SF ACTUAL, THUS OK. GLAZING = D-20 MARK

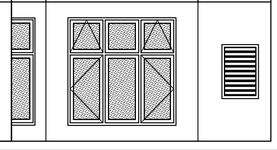
WINDOW TYPES

ID	W1	W2	W3	W4	W5	
Style						
Quantity	14	36	4	1	1	
W x H Size	4'-0"x6'-0"	4'-0"x6'-0"	5'-0"x6'-0"	8'-0"x4'-0"	2'-6"x6'-0"	3'-4



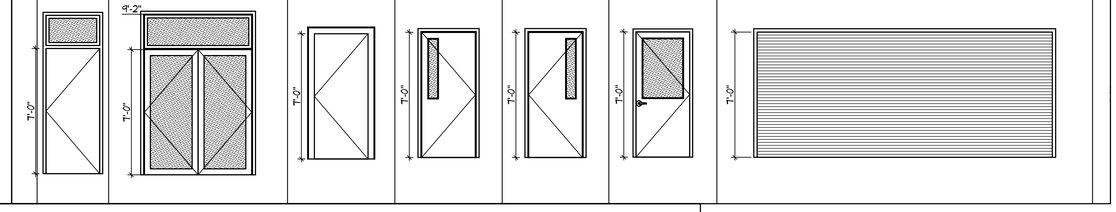
WINDOW TYPES

ID	W6	W7	XLouv V
Style			
Quantity	1	1	
W x H Size	x6'-0"	6'-0"x6'-0"	2'-0"x3'-4



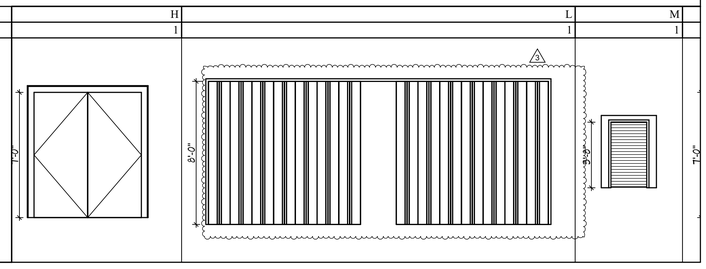
Door Type

Type	---	A	B	C	D	E	F	G
Quantity	2	10	2	30	3	6	2	1



Door Type

Type	H	L	M
Quantity	1	1	1



CJ W ARCHITECTURE
130 Portola Road, suite A
Portola Valley, CA 94028
(650) 851-9335 / (Fax) 851-9337

LICENSED ARCHITECT CARTER JENSEN WARD No. C-19397 REN. 6-30-17 STATE OF CALIFORNIA

◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

DOOR & WINDOW SCHEDULES

◦ REVISIONS ◦

No.	Date	Notes
1	6-17-2016	Building Submittal
2	8-15-2016	Plan Check Comments
3	9-23-2016	FCC & Add #6

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: A-8.1

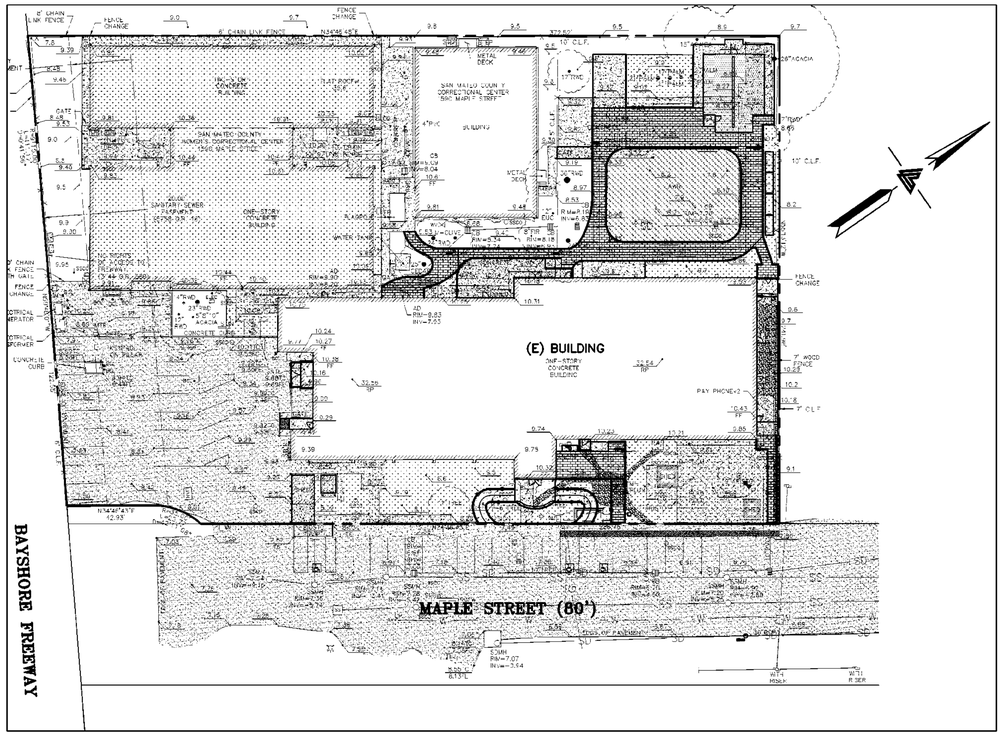
IMPROVEMENT PLANS
LIFEMOVES MAPLE STREET SHELTER
1580 MAPLE STREET
REDWOOD CITY, CALIFORNIA

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		BOUNDARY
		FLUSH CURB
		PROPERTY LINE
		RETAINING WALL
	RW RW	RAINWATER TIGHTLINE
	SUB	SUBDRAIN LINE
	TL	TIGHTLINE
SD	SD	STORM DRAIN LINE
SS	SS	SANITARY SEWER LINE
W	W	WATER LINE
G	G	GAS LINE
P	P	PRESSURE LINE
JT	JT	JOINT TRENCH
		SET BACK LINE
		CONCRETE VALLEY GUTTER
		EARTHEN SWALE
CB	CB	CATCH BASIN
JB	JB	JUNCTION BOX
AD	AD	AREA DRAIN
SDMH	SDMH	CURB INLET
SSMH	SSMH	STORM DRAIN MANHOLE
		FIRE HYDRANT
	SSMH RIM 222.57 INV	SANITARY SEWER MANHOLE
222.91 INV		SPOT ELEVATION
		FLOW DIRECTION
	D	DEMOLISH/REMOVE
		BENCHMARK
200	200	CONTOURS
XX" TREE		TREE TO BE REMOVED

ABBREVIATIONS

AB	AGGREGATE BASE	LF	LINEAR FEET
AC	ASPHALT CONCRETE	MAX	MAXIMUM
ACC	ACCESSIBLE	MH	MANHOLE
AD	AREA DRAIN	MIN	MINIMUM
BC	BEGINNING OF CURVE	MON.	MONUMENT
B & D	BEARING & DISTANCE	(N)	NEW
BM	BENCHMARK	NO.	NUMBER
BW/FG	BOTTOM OF WALL/FINISH GRADE	NTS	NOT TO SCALE
CB	CATCH BASIN	O.C.	ON CENTER
C & G	CURB AND GUTTER	O/	OVER
℄	CENTER LINE	(PA)	PLANTING AREA
CPP	CORRUGATED PLASTIC PIPE (SMOOTH INTERIOR)	PED	PEDESTRIAN
		PIV	POST INDICATOR VALVE
CO	CLEANOUT	PSS	PUBLIC SERVICES EASEMENT
COTG	CLEANOUT TO GRADE	P	PROPERTY LINE
CONC	CONCRETE	PP	POWER POLE
CONST	CONSTRUCT or –TION	PUE	PUBLIC UTILITY EASEMENT
CONC COR	CONCRETE CORNER	PVC	POLYVINYL CHLORIDE
CY	CUBIC YARD	R	RADIUS
D	DIAMETER	RCP	REINFORCED CONCRETE PIPE
DI	DROP INLET	RIM	RIM ELEVATION
DIP	DUCTILE IRON PIPE	RW	RAINWATER
EA	EACH	R/W	RIGHT OF WAY
EC	END OF CURVE	S	SLOPE
EG	EXISTING GRADE	S.A.D.	SEE ARCHITECTURAL DRAWINGS
EL	ELEVATIONS	SAN	SANITARY
EP	EDGE OF PAVEMENT	SD	STORM DRAIN
EQ	EQUIPMENT	SDMH	STORM DRAIN MANHOLE
EW	EACH WAY	SHT	SHEET
(E)	EXISTING	S.L.D.	SEE LANDSCAPE DRAWINGS
FC	FACE OF CURB	SPEC	SPECIFICATION
FF	FINISHED FLOOR	SS	SANITARY SEWER
FG	FINISHED GRADE	SSCO	SANITARY SEWER CLEANOUT
FH	FIRE HYDRANT	SSMH	SANITARY SEWER MANHOLE
FL	FLOW LINE	ST.	STREET
FS	FINISHED SURFACE	STA	STATION
G	GAS	STD	STANDARD
GA	GAGE OR GAUGE	STRUCT	STRUCTURAL
GB	GRADE BREAK	T	TELEPHONE
HDPE	HIGH DENSITY CORRUGATED POLYETHYLENE PIPE	TC	TOP OF CURB
		TEMP	TEMPORARY
HORIZ	HORIZONTAL	TP	TOP OF PAVEMENT
HI PT	HIGH POINT	TW/FG	TOP OF WALL/FINISH GRADE
H&T	HUB & TACK	TYP	TYPICAL
ID	INSIDE DIAMETER	VC	VERTICAL CURVE
INV	INVERT ELEVATION	VCP	VITRIFIED CLAY PIPE
JB	JUNCTION BOX	VERT	VERTICAL
JT	JOINT TRENCH	W/	WITH
JP	JOINT UTILITY POLE	W, WL	WATER LINE
L	LENGTH	WM	WATER METER
LNDG	LANDING	WWF	WELDED WIRE FABRIC



KEY MAP
1" = 40'

EASEMENT NOTE

EASEMENTS SHOWN ARE PER TITLE REPORT PREPARED BY TITLE INSURANCE AND TRUST COMPANY, NO. 406153–RWC, DATED SEPTEMBER 20, 1971.

UTILITIES / SERVICES

WATER	CITY OF REDWOOD CITY PUBLIC UTILITY COMPANY
SEWER	CITY OF REDWOOD CITY SANITARY DISTRICT
GAS	PACIFIC GAS AND ELECTRIC (PG&E)
ELECTRICITY	PACIFIC GAS AND ELECTRIC (PG&E)
TELEPHONE	AT&T
FIRE PROTECTION	CITY OF REDWOOD CITY

ESTIMATED EARTHWORK QUANTITIES

CUBIC YARDS	CUT	FILL	TOTAL CUBIC YARDS
BUILDING / GARAGE	30	–	30
DRIVEWAY / PARKING	–	–	–
HARDSCAPE	160	–	160
LANDSCAPE	60	–	60
SUBTOTAL	250		250
TOTAL EXPORT (CU. YD.)			250

NOTE:
GRADING QUANTITIES REPRESENT BANK YARDAGE. IT DOES NOT INCLUDE ANY SWELLING OR SHRINKAGE FACTORS AND IS INTENDED TO REPRESENT IN–SITU CONDITIONS. QUANTITIES DO NOT INCLUDE OVER–EXCAVATION, TRENCHING, STRUCTURAL FOUNDATIONS OR PIERS, OR POOL EXCAVATION (IF ANY). NOTE ADDITIONAL EARTHWORKS, SUCH AS KEYWAYS OR BENCHING MAY BE REQUIRED BY THE GEOTECHNICAL ENGINEER IN THE FIELD AT TIME OF CONSTRUCTION. CONTRACTOR TO VERIFY QUANTITIES.

NOTES

ALL DISTANCES AND DIMENSIONS ARE IN FEET AND DECIMALS OF A FOOT.

UNDERGROUND UTILITY LOCATION IS BASED ON SURFACE EVIDENCE.

BUILDING FOOTPRINTS ARE SHOWN AT GROUND LEVEL.

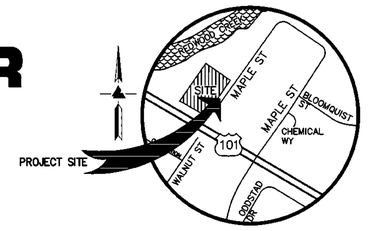
FINISH FLOOR ELEVATIONS ARE TAKEN AT DOOR THRESHOLD (EXTERIOR)

SITE BENCHMARK

SURVEY CONTROL POINT
MAG AND SHINER SET IN ASPHALT
ELEVATION = 7.47' (NAVD 88)

BENCHMARK

CITY OF REDWOOD CITY BENCHMARK
BENCH MARK 62
MAPLE ST AT CHEMICAL WAY – SET BRASS DISC STAMPED "CITY OF REDWOOD CITY BENCHMARK" ON HEADWALL OF CULVERT IN FRONT OF REDWOOD CITY POLICE DEPARTMENT, NORTH SIDE OF CULVERT, 11' FROM FIRE HYDRANT.
ELEVATION = 10.82' (NAVD 88)



VICINITY MAP
NO SCALE

30.00' CONSTRUCT

GENERAL NOTES

1. ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITY CROSSINGS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO START OF ANY CONSTRUCTION AFFECTING SAID LINES. CONTACT USA AT (800) 642–2444 AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION.

2. ALL APPLICABLE WORK SHALL BE DONE IN ACCORDANCE WITH THE COUNTY STANDARD TECHNICAL SPECIFICATIONS AND DETAILS, PREPARED IN THE OFFICE OF THE ENGINEERING DIVISION, INCLUDING MODIFICATIONS CONTAINED HEREIN.

3. THE CONTRACTOR SHALL RESTORE ALL DAMAGED, REMOVED OR OTHERWISE DISTURBED WALLS, FENCES, SERVICES, UTILITIES, IMPROVEMENTS OR FEATURES OF WHATEVER NATURE, DUE TO CONTRACTOR'S WORK.

4. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE INSTALLATION OF FACILITIES BY PG&E. PACIFIC BELL, AND CABLE T.V. INSTALLATION. VALVE BOXES AND MANHOLES, AND STRUCTURES TO BE SET TO GRADE IN CONCRETE AFTER PAVING.

5. ALL STREET MONUMENTS AND OTHER PERMANENT MONUMENTS DISTURBED DURING THE PROCESS OF CONSTRUCTION SHALL BE REPLACED BEFORE ACCEPTANCE OF THE IMPROVEMENTS BY THE CITY ENGINEER/COUNTY.

6. THE CONTRACTOR SHALL GIVE THE CITY INSPECTOR TWO WORKING DAYS ADVANCE NOTICE FOR INSPECTION. (650) 780–7380

7. FOR LANE CLOSURES, THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN AND OBTAIN APPROVAL OF THE CITY ENGINEER BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE FLAGMEN, CONES OR BARRICADES, AS NECESSARY TO CONTROL TRAFFIC AND PREVENT HAZARDOUS CONDITIONS PER THE WORK AREA TRAFFIC CONTROL HANDBOOK.

8. PEDESTRIAN, PUBLIC ACCESSES, WHEELCHAIR ACCESSES SHALL BE MAINTAINED DURING THE CONSTRUCTION TO THE SATISFACTION OF THE CITY ENGINEER.

9. NO TRENCHES OR HOLES SHALL BE LEFT OPEN OVERNIGHT; USE STEEL PLATING OR HOT–MIX ASPHALT AS REQUIRED TO PROTECT OPEN TRENCHES OVERNIGHT.

10. THE CONTRACTOR SHALL CONTROL DUST AT ALL TIMES AND SWEEP STREETS AS OFTEN AS NECESSARY DURING CONSTRUCTION AS REQUIRED BY THE COUNTY ENGINEER.

11. ALL REVISIONS TO THIS PLAN MUST BE REVIEWED AND APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION AND SHALL BE ACCURATELY SHOWN ON REVISED PLANS STAMPED AND SIGNED BY COUNTY ENGINEER PRIOR TO THE INSTALLATION OF THE IMPROVEMENTS.

12. ALL CONSTRUCTION STAKING FOR CURB, GUTTER, SIDEWALK, SANITARY SEWERS, STORM DRAINS, WATER LINES, FIRE HYDRANTS, ELECTROLIERS, ECT., SHALL BE DONE BY A REGISTERED CIVIL ENGINEER OF LICENSED LAND SURVEYOR.

13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MOST CURRENT VERSION OF THE DETAILS AND SPECIFICATIONS FROM THE CITY OF REDWOOD CITY AND COUNTY.

OWNER'S INFORMATION

OWNER:
COUNTY OF SAN MATEO
55 COUNTY CENTER–5TH FL
REDWOOD CITY, CA 94063

APN: 052–532–020

REFERENCES

THIS GRADING AND DRAINAGE PLAN IS SUPPLEMENTAL TO:
1. TOPOGRAPHIC SURVEY BY LEA & BRAZE ENGINEERING INC., ENTITLED; "TOPOGRAPHIC SURVEY"
   1580 MAPLE STREET
   REDWOOD CITY, CA
   DATED: 01–06–16
   JOB#2151288
2. SITE PLAN BY CJW ARCHITECTURE
   ENTITLED:
   "SITE PLAN"
   1580 MAPLE STREET
   REDWOOD CITY, CA 94063
3. SOIL REPORT BY XXX. ENTITLED:
   "XXX"
   123 MAIN ST
   ANYTOWN, USA
   JOB# XXX
   DATE: XXX

THE CONTRACTOR SHALL REFER TO THE ABOVE NOTED SURVEY AND PLAN, AND SHALL VERIFY BOTH EXISTING AND PROPOSED ITEMS ACCORDING TO THEM.

NOTE:
FOR CONSTRUCTION STAKING SCHEDULING OR QUOTATIONS PLEASE CONTACT ALEX ABAYA AT LEA & BRAZE ENGINEERING (510)887-4086 EXT 116. aabaya@leabraze.com

CALL 1–800–227–2600 BEFORE YOU DIG USA UNDERGROUND SERVICE ALERT

"GRADING CERTIFICATE" (TO BE SIGNED AT PROJECT COMPLETION)

(TO BE SIGNED AT PROJECT COMPLETION)
PRIOR TO OCCUPANCY, A LICENSED CIVIL ENGINEER SHALL CERTIFY TO THE COUNTY THAT THE SITE HAS BEEN GRADED TO THE ELEVATIONS SHOWN ON THE PLAN, AND THAT THE SITE WILL DRAIN PROPERLY.

JAMES TOBY — DATE
RCE# 63127
LICENSE EXPIRES 06–30–18
LEA & BRAZE ENGINEERING

"GEOTECHNICAL ENGINEER'S CERTIFICATE"

"REVIEWED AND APPROVED FOR CONFORMANCE WITH SOILS REPORT REQUIREMENTS".

ANNMARIE LUCCHESI — DATE
GEOTECHNICAL ENGINEER

RECORD DRAWINGS (TO BE SIGNED AT PROJECT COMPLETION)

(TO BE SIGNED AT PROJECT COMPLETION)
THESE RECORD DRAWINGS ARE BASED ON LIMITED FIELD REVIEW AND FIELD SURVEYS, AS NECESSARY BY LEA AND BRAZE ENGINEERING, AND WE ASSUME NO LIABILITY FOR THE ACCURACY OF THE INFORMATION.

JAMES TOBY — DATE
RCE# 63127
LICENSE EXPIRES 06–30–18
LEA & BRAZE ENGINEERING

SHEET INDEX

REGISTERED PROFESSIONAL ENGINEER — JAMES TOBY — No. 63127 — CIVIL — STATE OF CALIFORNIA — ORIGINAL SIGNATURES IN BLUE INK

LEA & BRAZE ENGINEERING, INC.
CIVIL ENGINEERS • LAND SURVEYORS
BAY AREA REGION
2495 INDUSTRIAL PKWY WEST
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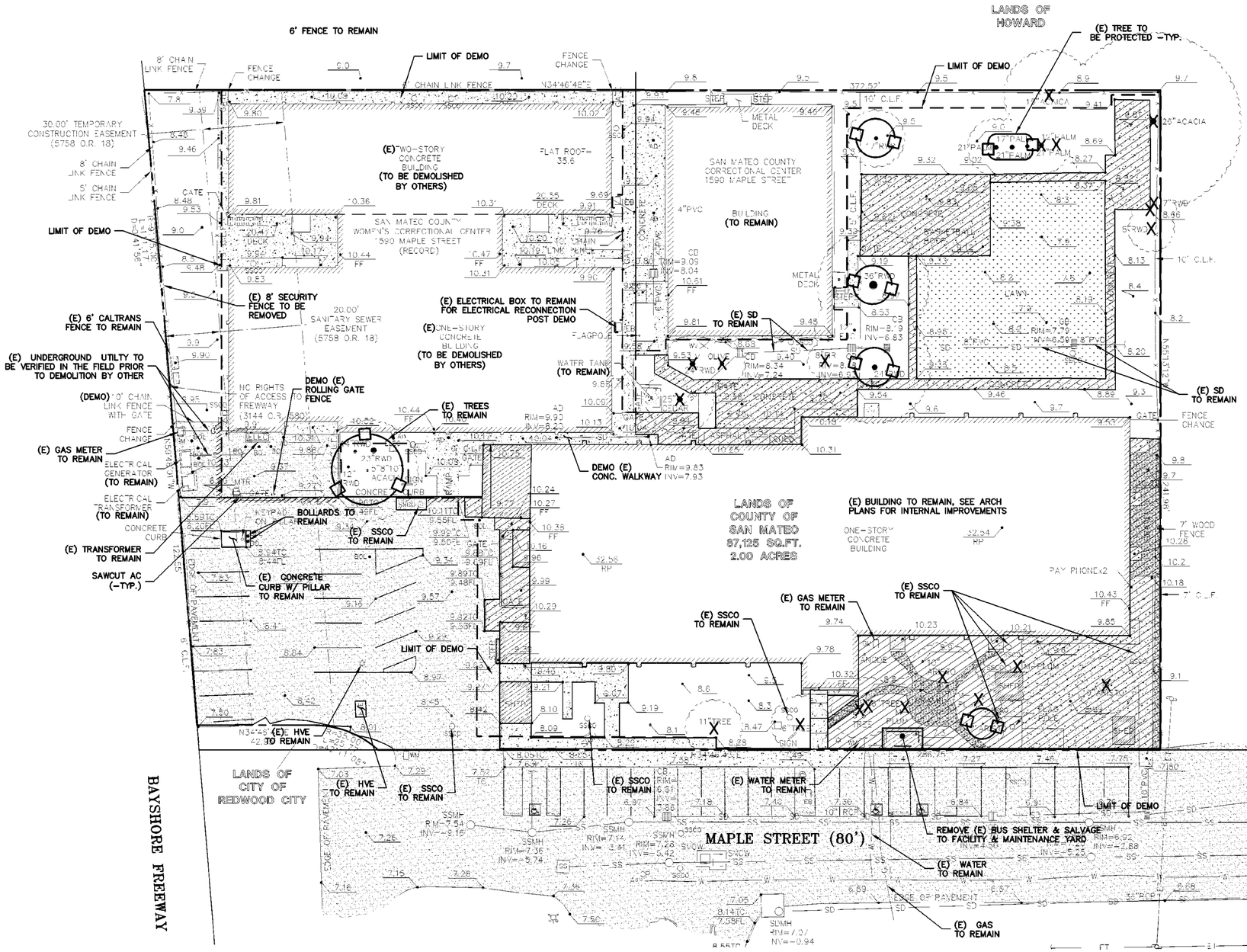
IMPROVEMENT PLANS
LIFEMOVES MAPLE STREET SHELTER
1580 MAPLE STREET
SAN MATEO COUNTY
APN: 052–532–020

TITLE SHEET

1	COUNTY COMMENTS 08–19–16	MH
2	PC#2/ADD#6 09–23–16	MH
–		–
–		–
–		–
REVISIONS		BY

JOB NO:	2151287
DATE:	06–17–16
SCALE:	AS NOTED
DESIGN BY:	MH
DRAWN BY:	WM

SHEET NO:
C–1.0
1 OF 19 SHEETS



0 10 20 40

SCALE: 1" = 20'

LEGEND

- REMOVE (E) STRUCTURAL. ALL UNDERGROUND UTILITY TO REMAIN UNLESS OTHERWISE NOTED ON PLANS
- REMOVE (E) CONCRETE AND STRUCTURES, UNLESS CALLED OUT TO REMAIN
- TREE PROTECTION
- TREE TO BE REMOVED. CONFIRM ALL TREE REMOVAL WITH ARCHITECT'S AND LANSCAPE ARCHETECT'S PLANS.
- LIMITS OF DEMOLITION

DEMOLITION NOTES:

1. DEMOLISH (E) IMPROVEMENTS AS NECESSARY TO ACCOMMODATE (N) CONSTRUCTION. NO DEMOLITION SHALL COMMENCE WITHOUT REQUIRED DEMOLITION PERMITS.
2. SEE ELECTRICAL PLANS FOR REMOVAL OR RELOCATION OF ALL ELEC/COMM CONDUITS, BOXES, LINE AND ETC
3. SEE UTILITY PLAN FOR ALL NEW TIE-IN AND RELOCATION OF STORM, SANITARY SEWER AND WATER.
4. PRIOR TO DEMOLITION CONTRACTOR SHALL COORDINATE ALL SERVICE PROVIDERS FOR DISCONNECTING PROCESS
5. BACKFILL ALL DEPRESSIONS AND TRENCHES FROM DEMOLITION OF FOUNDATIONS & UTILITIES TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
6. COORDINATE WITH ELECTRICAL, MECHANICAL, LANDSCAPING AND ARCHITECTURAL DRAWINGS FOR UTILITY SHUT-DOWN / DISCONNECT LOCATIONS. CONTRACTOR IS TO SHUT OFF ALL UTILITIES AS NECESSARY PRIOR TO DEMOLITION. CONTRACTOR IS TO COORDINATE SERVICE INTERRUPTIONS WITH THE DEVELOPER / OWNER. DO NOT INTERRUPT SERVICES ADJACENT OFF-SITE OWNERS. ALSO SEE ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION SCOPE OF WORK.

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IMPROVEMENT PLANS
LIFEMOVES MAPLE STREET SHELTER
1580 MAPLE STREET

SAN MATEO COUNTY

APN: 052-532-020

DEMOLITION PLAN

1	COUNTY COMMENTS 08-19-16	MH
2	PC#2/ADD#6 09-23-16	MH
-		-
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JOB NO:	2151287
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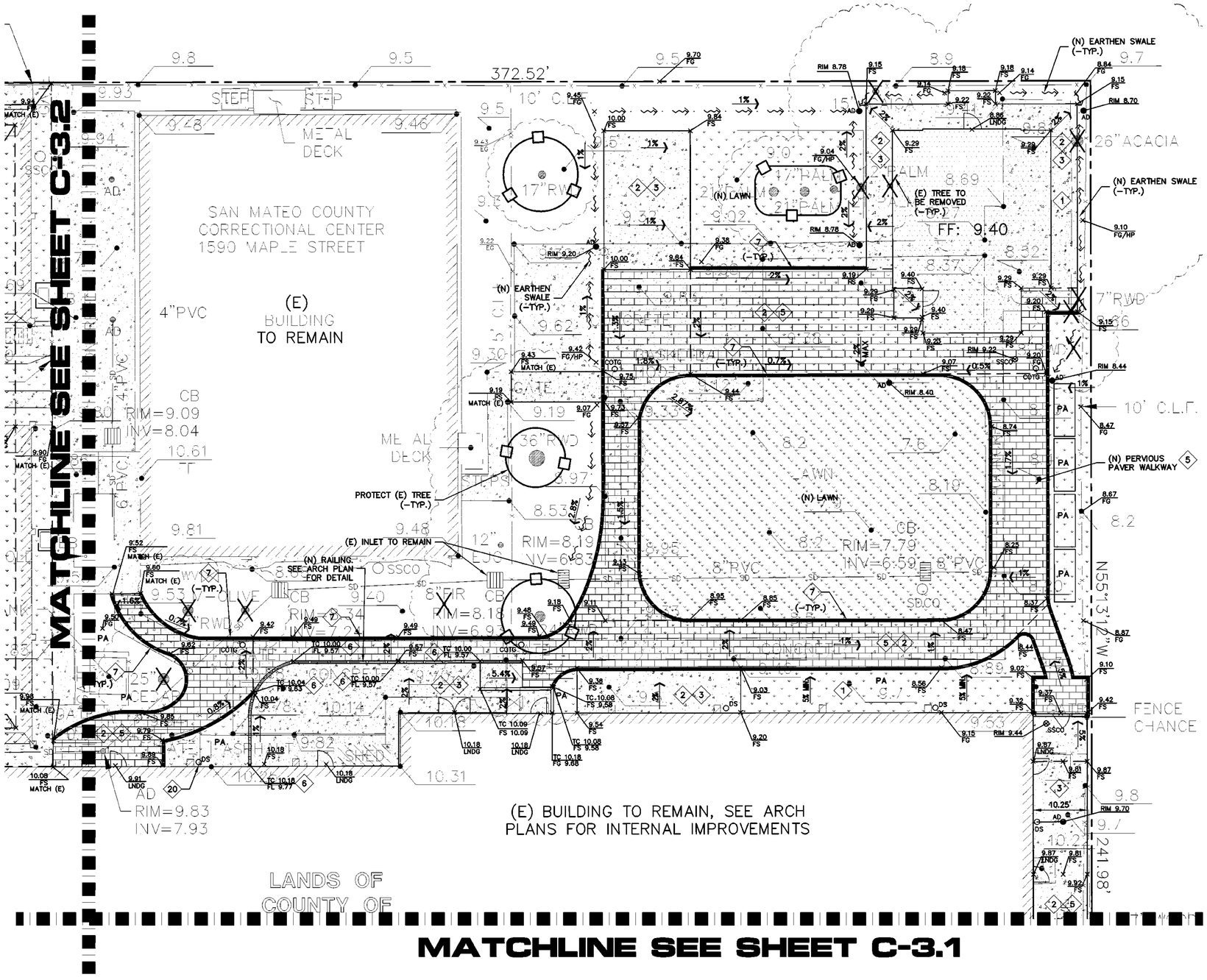
2 OF 19 SHEETS



0 5 10 20

SCALE: 1" = 10'

LEGEND

- GRAVEL
- CONCRETE
- PERVIOUS PAVERS
- GRASS
- DETECTABLE WARNING SURFACE
- FLUSH CURB

FLATWORK KEYNOTES 1 TO 8

1. FINISHED GRADES AT BUILDING PERIMETER SHALL BE SLOPED AT A MINIMUM OF 5% FOR THE FIRST 10' AWAY FROM THE BUILDING PER CBC 1804.3 OR TO AN APPROVED DRAINAGE SWALE OR STRUCTURE. GRADES SHALL CONTINUE TO SLOPE TOWARDS POSITIVE DRAINAGE AND A POSITIVE OUTFALL. MAINTAIN 8" CLEARANCE BETWEEN FINISH EARTHEN GRADE AND BOTTOM OF MUD SILL AT ALL TIMES PER CBC 2304.11.2 UNLESS STRUCTURAL DETAILING ALLOWS LESS. REFER TO STRUCTURAL PLANS FOR FOUNDATION DESIGN AND DETAILS
2. PROVIDE 2% (1% MIN.) SLOPE ACROSS FLAT WORK AND/OR PAVING PER CBC 2304.11.2. SLOPE TOWARDS POSITIVE DRAINAGE AS SHOWN ON PLAN.
3. (N) CONCRETE PAVING. SEE DETAIL 3 ON SHEET C-5.0.
4. (N) UTILITY PAD/ CONCRETE APRON, SEE DETAIL 4 SHEET C-5.0.
5. (N) UNIT PAVER WALKWAYS, SEE DETAIL 5 ON SHEET C-5.0.
6. (N) VERTICAL CURB, SEE ON DETAIL 7 ON C-5.0
7. (N) FLUSH CURB, SEE DETAIL 2 ON SHEET C-5.0
8. (N) DETECTABLE WARNING SURFACE, SEE DETAIL 6 ON SHEET C-5.0

*** BUILDING PAD NOTE:** ADJUST PAD LEVEL AS REQUIRED. REFER TO STRUCTURAL PLANS FOR SLAB SECTION OR CRAWL SPACE DEPTH TO ESTABLISH PAD LEVEL.

NOTE:
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IMPROVEMENT PLANS
LIFEMOVES MAPLE STREET SHELTER
1580 MAPLE STREET

SAN MATEO COUNTY

APN: 052-532-020

GRADING AND DRAINAGE PLAN

1	COUNTY COMMENTS 08-19-16	MH
2	PC#2/ADD#6 09-23-16	MH
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	REVISIONS	BY

JOB NO:	2151287
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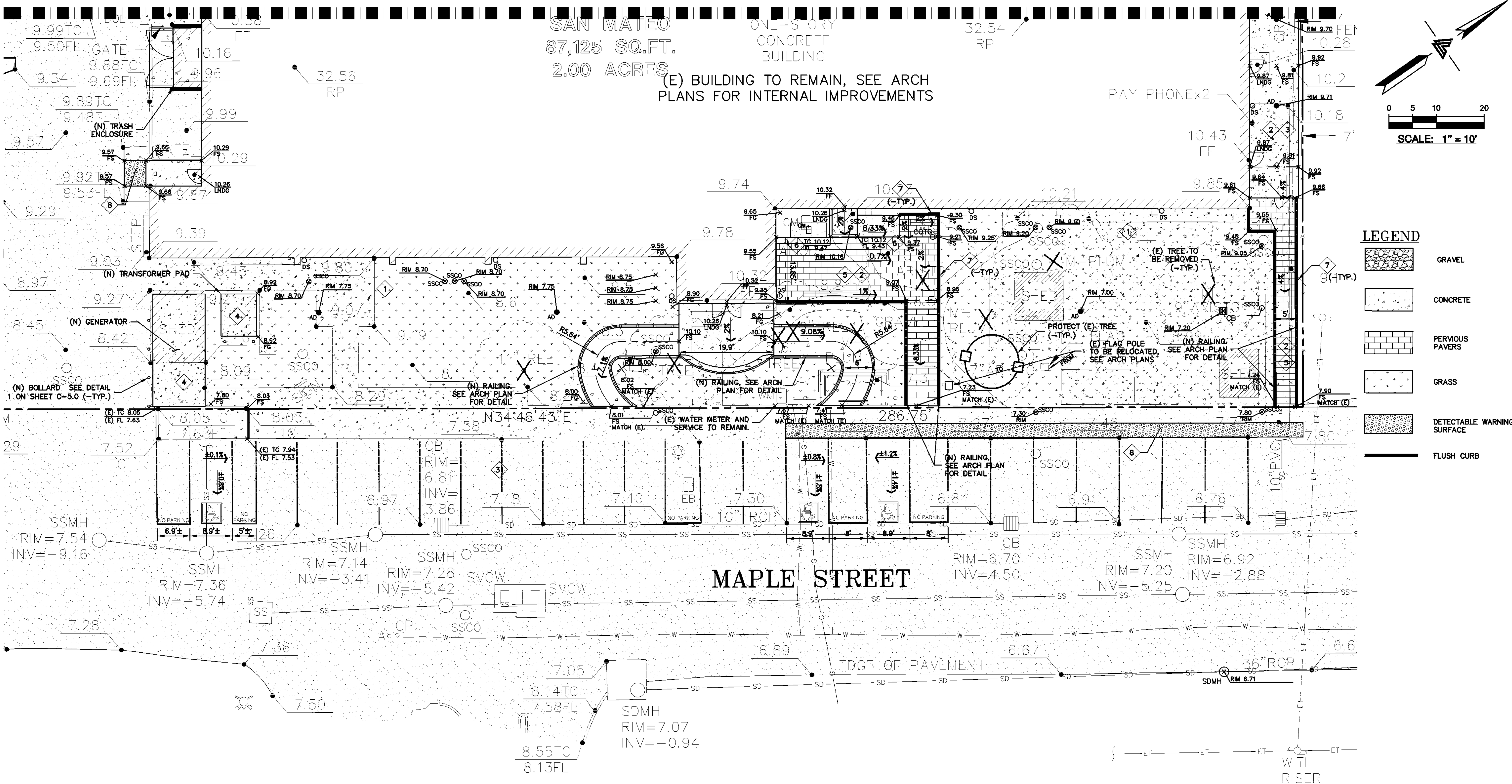
SHEET NO:	C-3.0

3 OF 19 SHEETS

MATCHLINE SEE SHEET C-3.0



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5. (N) UNIT PAVER WALKWAYS, SEE DETAIL 5 ON SHEET C-5.0.
6. (N) VERTICAL CURB, SEE ON DETAIL 7 ON C-5.0
7. (N) FLUSH CURB, SEE DETAIL 2 ON SHEET C-5.0
8. (N) DETECTABLE WARNING SURFACE, SEE DETAIL 6 ON SHEET C-5.0

*** BUILDING PAD NOTE:** ADJUST PAD LEVEL AS REQUIRED. REFER TO STRUCTURAL PLANS FOR SLAB SECTION OR CRAWL SPACE DEPTH TO ESTABLISH PAD LEVEL.

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IMPROVEMENT PLANS
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1580 MAPLE STREET
SAN MATEO COUNTY
APN: 052-532-020

GRADING AND DRAINAGE PLAN

	REVISIONS	BY
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JOB NO:	2151287
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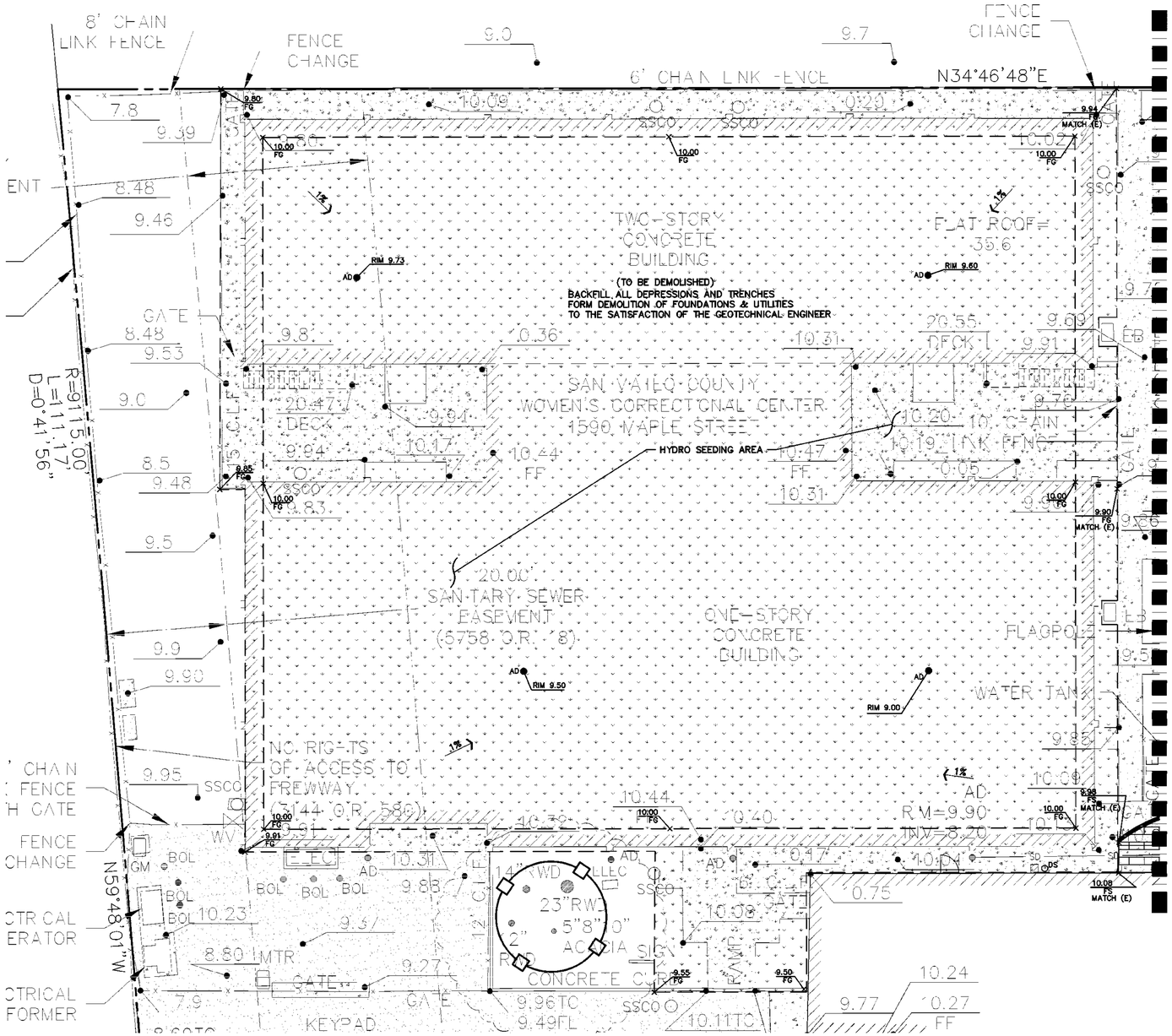
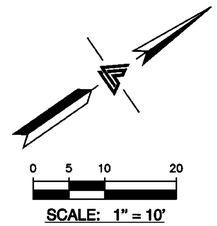
SHEET NO:	C-3.1





LEGEND

- GRAVEL
- CONCRETE
- PERVIOUS PAVERS
- GRASS
- DETECTABLE WARNING SURFACE
- FLUSH CURB

FLATWORK KEYNOTES 1 TO 8

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5. (N) VERTICAL CURB, SEE ON DETAIL 7 ON C-5.0
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7. (N) DETECTABLE WARNING SURFACE, SEE DETAIL 6 ON SHEET C-5.0

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IMPROVEMENT PLANS
LIFEMOVES MAPLE STREET SHELTER
1580 MAPLE STREET
APN: 052-532-020
SAN MATEO COUNTY

GRADING AND DRAINAGE PLAN

1	COUNTY COMMENTS 08-19-16	MH
2	PC#2/ADD#6 09-23-16	MH
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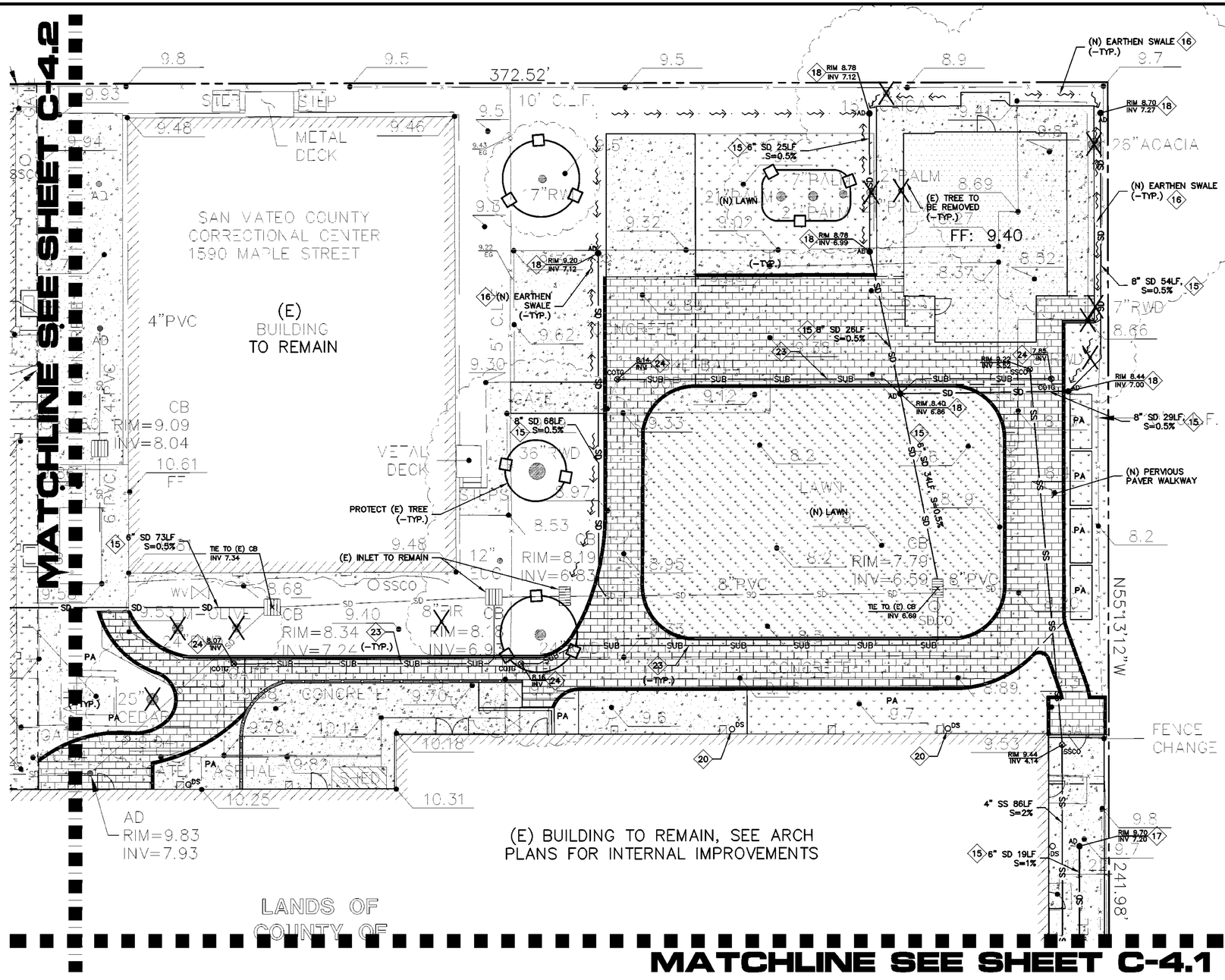
	REVISIONS	BY

JOB NO:	2151287
DATE:	06-17-16
SCALE:	AS NOTED
DESIGN BY:	MH
DRAWN BY:	WM
SHEET NO:	C-3.2

5 OF 19 SHEETS



0 5 10 20

SCALE: 1" = 10'

LEGEND

- GRAVEL
- CONCRETE
- PERVIOUS PAVERS
- GRASS
- DETECTABLE WARNING SURFACE
- FLUSH CURB

STORM DRAIN KEYNOTES 15 TO 24

15 INSTALL (N) ON-SITE STORM DRAIN SYSTEM. USE MINIMUM 6" PVC (SDR 35) OR HDPE (ADS N-12 W/ SMOOTH INTERIOR WALLS). MAINTAIN 24" MINIMUM COVER AND SLOPED AT 1% MINIMUM AT ALL TIMES UNLESS OTHERWISE NOTED. PROVIDE CLEAN OUT TO GRADE AT MAJOR CHANGES IN DIRECTION. AVOID USING 90° BENDS AND INSTEAD USE (2) 45° BENDS AND WYE CONNECTIONS.

16 CONSTRUCT (N) EARTHEN SWALE SLOPED AT 1% MINIMUM TOWARDS POSITIVE OUTFALL. SEE DETAIL 1 ON SHEET C-5.1.

17 INSTALL (N) 4" DIAMETER BRASS AREA DRAIN (AD) IN HARDSCAPE AREAS (NDS PART 90C). SEE DETAIL 2 ON C-5.1.

18 INSTALL (N) 4" DIAMETER BRASS ATRIUM GRATE IN LANDSCAPE OR PLANTER AREAS (NDS PART 78B OR 90B FOR 6" DIAMETER BRASS ATRIUM GRATE). DO NOT USE PLASTIC GRATES. SEE DETAIL 3 ON C-5.1.

19 INSTALL (N) "CENTRAL PRECAST CP2424". SEE DETAIL 5 & 6 SHEET C-5.1. PER CITY STANDARD DETAIL D-2 ON SHEET C-5.2

20 DIRECT DOWNSPOUTS TO 24" LONG PRECAST CONCRETE SPLASHBLOCKS OR OTHER HARD SURFACE. DIRECT AWAY FROM ANY STRUCTURE AND TOWARDS POSITIVE DRAINAGE. SEE DETAIL 4A ON SHEET C-5.1

21 CONNECT RAIN WATER DOWNSPOUTS TO 4" PVC (SDR-35) TIGHTLINE, SLOPED AT 1% MINIMUM. DIRECT TO NEAREST STORM DRAIN LINE. PROVIDE CLEAN OUT TO GRADE AT MAJOR CHANGES IN DIRECTION. AVOID USING 90° BENDS AND INSTEAD USE (2) 45° BENDS. TIGHTLINE MAY BE PLACED IN COMMON TRENCH WITH SUBDRAIN LINES, HOWEVER, NOT CONNECT TO SUBDRAIN LINES. CONNECT TO NEAREST STORM DRAIN LINE AS SHOWN ON PLAN. SEE DETAIL 4B ON SHEET C-4.1.

22 INSTALL (N) STORM DRAIN MANHOLE PER CITY STANDARD DETAIL M-3 ON SHEET C-5.2.

23 INSTALL (N) SUBDRAIN. USE PERFORATED 4" PVC (SDR-35) WITH HOLES DOWN AND SLOPED AT 1% MINIMUM SURROUND WITH 3/4" DRAIN ROCK WRAPPED IN FILTER FABRIC (MIRAFI 140N). MIRADRAIN OR OTHER LEA & BRAZE PREAPPROVED DRAINAGE SYSTEM MAY ALSO BE USED. AVOID USING 90° BENDS AND INSTEAD USE (2) 45° BENDS AND WYE CONNECTIONS. PROVIDE CLEANOUT TO GRADE AT MAJOR CHANGES IN DIRECTION AND AT 100' MAXIMUM INTERVALS. SUBDRAIN SHALL REMAIN A DEDICATED SEPARATE SYSTEM UNTIL IT CONNECTS TO STORM DRAIN SYSTEM OR OUTFALL AS SHOWN. SEE DETAIL 5 ON C-5.0.

24 INSTALL (N) CLEANOUT. SEE DETAIL 5 ON SHEET C-5.1.

UTILITIES KEYNOTES 31 TO 32

31 INSTALL (N) SANITARY SEWER LATERALS PER CITY STANDARD DETAILS S-1 & S-4 ON SHEET C-5.2.

32 INSTALL (N) UTILITY TRENCH PER CITY STANDARD DETAIL UT-1 ON SHEET C-5.3

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IMPROVEMENT PLANS
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1580 MAPLE STREET

SAN MATEO COUNTY APN: 052-532-020

UTILITY PLAN

1	COUNTY COMMENTS 08-19-16	MH
2	PC#2/ADD#6 09-23-16	MH
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	REVISIONS	BY

JOB NO:	2151287
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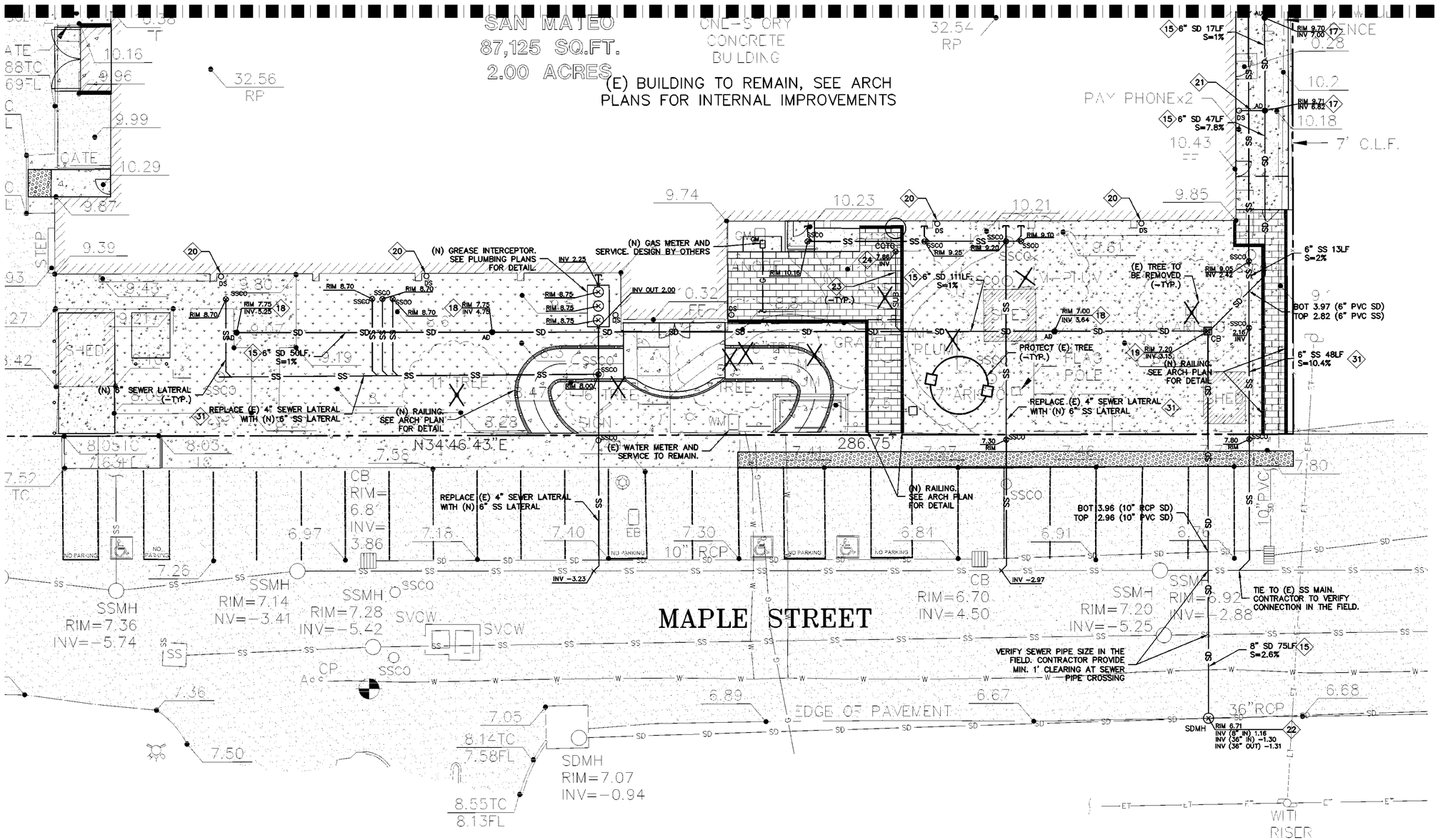
6 OF 19 SHEETS

MATCHLINE SEE SHEET C-4.0



LEGEND

- GRAVEL
- CONCRETE
- PERVIOUS PAVERS
- GRASS
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STORM DRAIN KEYNOTES 15 TO 24

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UTILITIES KEYNOTES 31 TO 32

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APN: 052-532-020

UTILITY PLAN

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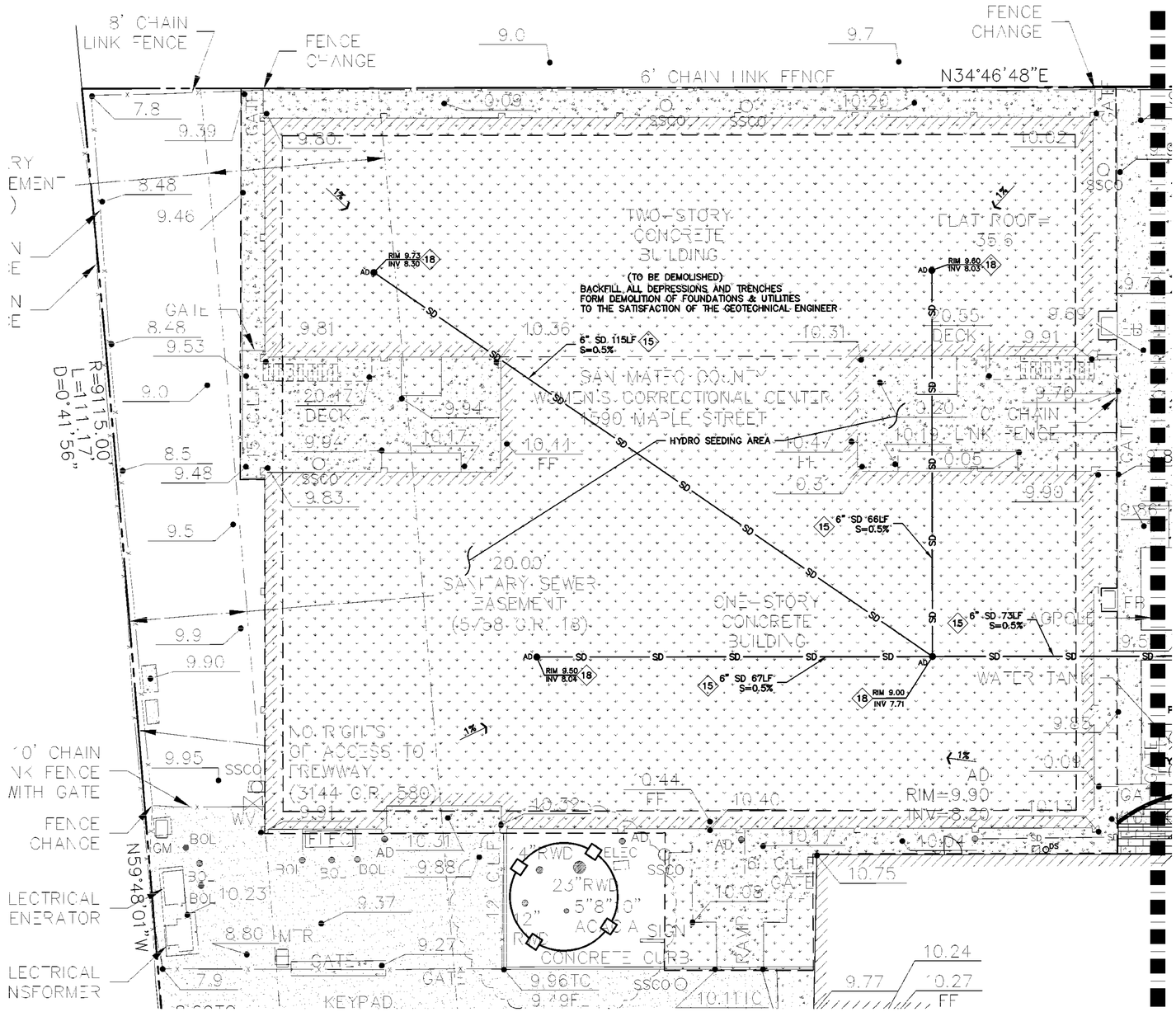
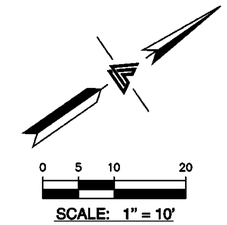
7 OF 19 SHEETS



MATCHLINE SEE SHEET C-4.0



LEGEND

- GRAVEL
- CONCRETE
- PERVIOUS PAVERS
- GRASS
- DETECTABLE WARNING SURFACE
- FLUSH CURB

STORM DRAIN KEYNOTES 15 TO 24

15. INSTALL (N) ON-SITE STORM DRAIN SYSTEM. USE MINIMUM 6" PVC (SDR 35) OR HDPE (ADS N-12 W/ SMOOTH INTERIOR WALLS). MAINTAIN 24" MINIMUM COVER AND SLOPED AT 1% MINIMUM AT ALL TIMES UNLESS OTHERWISE NOTED. PROVIDE CLEAN OUT TO GRADE AT MAJOR CHANGES IN DIRECTION. AVOID USING 90° BENDS AND INSTEAD USE (2) 45° BENDS AND WYE CONNECTIONS.
16. CONSTRUCT (N) EARTHEN SWALE SLOPED AT 1% MINIMUM TOWARDS POSITIVE OUTFALL. SEE DETAIL 1 ON SHEET C-5.1.
17. INSTALL (N) 4" DIAMETER BRASS AREA DRAIN (AD) IN HARDSCAPE AREAS (NDS PART 90C). SEE DETAIL 2 ON C-5.1.
18. INSTALL (N) 4" DIAMETER BRASS ATRIUM GRATE IN LANDSCAPE OR PLANTER AREAS (NDS PART 78B OR 90B FOR 6" DIAMETER BRASS ATRIUM GRATE). DO NOT USE PLASTIC GRATES. SEE DETAIL 3 ON C-5.1.
19. INSTALL (N) "CENTRAL PRECAST CP2424". SEE DETAIL 5 & 6 SHEET C-5.1. PER CITY STANDARD DETAIL D-2 ON SHEET C-5.2
20. DIRECT DOWNSPOUTS TO 24" LONG PRECAST CONCRETE SPLASHBLOCKS OR OTHER HARD SURFACE. DIRECT AWAY FROM ANY STRUCTURE AND TOWARDS POSITIVE DRAINAGE. SEE DETAIL 4A ON SHEET C-5.1
21. CONNECT RAIN WATER DOWNSPOUTS TO 4" PVC (SDR-35) TIGHTLINE, SLOPED AT 1% MINIMUM. DIRECT TO NEAREST STORM DRAIN LINE. PROVIDE CLEAN OUT TO GRADE AT MAJOR CHANGES IN DIRECTION. AVOID USING 90° BENDS AND INSTEAD USE (2) 45° BENDS. TIGHTLINE MAY BE PLACED IN COMMON TRENCH WITH SUBDRAIN LINES, HOWEVER, NOT CONNECT TO SUBDRAIN LINES. CONNECT TO NEAREST STORM DRAIN LINE AS SHOWN ON PLAN. SEE DETAIL 4B ON SHEET C-4.1.
22. INSTALL (N) STORM DRAIN MANHOLE PER CITY STANDARD DETAIL M-3 ON SHEET C-5.2.
23. INSTALL (N) SUBDRAIN. USE PERFORATED 4" PVC (SDR-35) WITH HOLES DOWN AND SLOPED AT 1% MINIMUM SURROUND WITH 3/4" DRAIN ROCK WRAPPED IN FILTER FABRIC (MIRAFI 140N). MIRADRAIN OR OTHER LEA & BRAZE PREAPPROVED DRAINAGE SYSTEM MAY ALSO BE USED. AVOID USING 90° BENDS AND INSTEAD USE (2) 45° BENDS AND WYE CONNECTIONS. PROVIDE CLEANOUT TO GRADE AT MAJOR CHANGES IN DIRECTION AND AT 100' MAXIMUM INTERVALS. SUBDRAIN SHALL REMAIN A DEDICATED SEPARATE SYSTEM UNTIL IT CONNECTS TO STORM DRAIN SYSTEM OR OUTFALL AS SHOWN. SEE DETAIL 5 ON C-5.0.
24. INSTALL (N) CLEANOUT. SEE DETAIL 5 ON SHEET C-5.1.

UTILITIES KEYNOTES 31 TO 32

31. INSTALL (N) SANITARY SEWER LATERALS PER CITY STANDARD DETAILS S-1 & S-4 ON SHEET C-5.2.
32. INSTALL (N) UTILITY TRENCH PER CITY STANDARD DETAIL UT-1 ON SHEET C-5.3

* BUILDING PAD NOTE: ADJUST PAD LEVEL AS REQUIRED. REFER TO STRUCTURAL PLANS FOR SLAB SECTION OR CRAWL SPACE DEPTH TO ESTABLISH PAD LEVEL.

NOTE:
FOR CONSTRUCTION STAKING SCHEDULING OR QUOTATIONS PLEASE CONTACT ALEX ABAYA AT LEA & BRAZE ENGINEERING (510)887-4086 EXT 116. aabaya@leabraze.com

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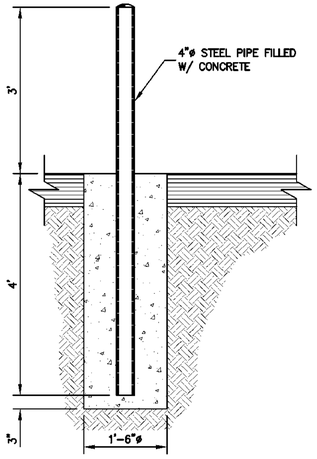
IMPROVEMENT PLANS
LIFEMOVES MAPLE STREET SHELTER
1580 MAPLE STREET
SAN MATEO COUNTY
APN: 052-532-020

UTILITY PLAN

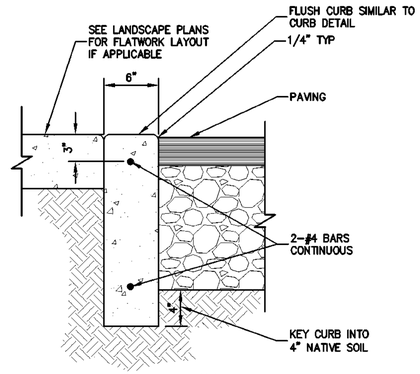
1	COUNTY COMMENTS 08-19-16	MH
2	PC#2/ADD#6 09-23-16	MH
–		–
–		–
–		–
	REVISIONS	BY

JOB NO:	2151287
DATE:	06-17-16
SCALE:	AS NOTED
DESIGN BY:	MH
DRAWN BY:	WM
SHEET NO:	C-4.2

8 OF 19 SHEETS

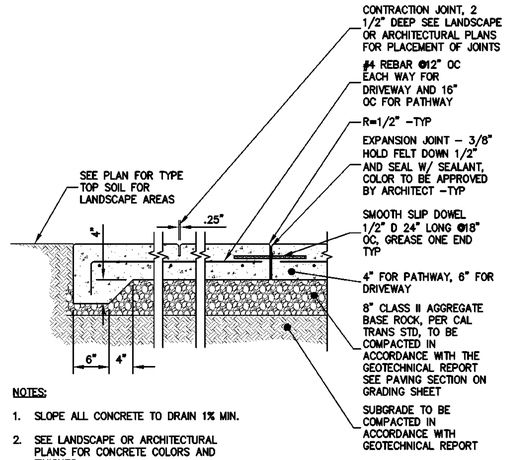


1 C-5.0 **BOLLARD**
NTS



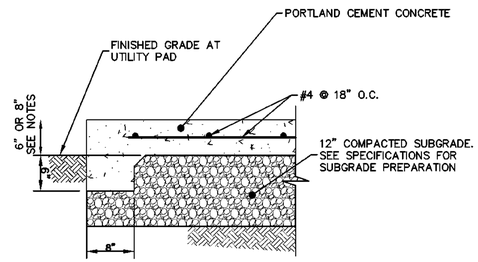
NOTE:
1. CURB MAY EITHER BE EXTRUDED TO THE SHAPE SHOWN OR FORMED & POURED IN PLACE.
2. PROVIDE EXPANSION JOINTS AT 15" O.C.

2 C-5.0 **FLUSH CURB**
NTS



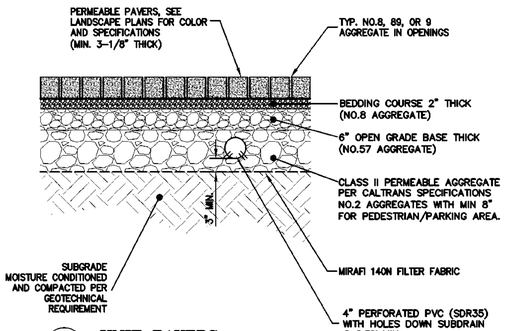
NOTES:
1. SLOPE ALL CONCRETE TO DRAIN 1% MIN.
2. SEE LANDSCAPE OR ARCHITECTURAL PLANS FOR CONCRETE COLORS AND FINISHES.
3. EASE ALL EDGES R=1/2"
4. FELT SHALL BE NON-ASPHALTIC IMPREGNATED.

3 C-5.0 **CONCRETE PAVING**
NTS



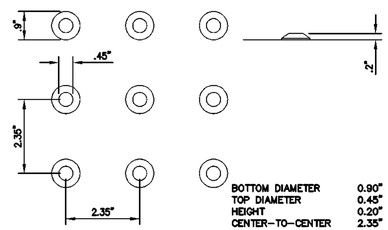
NOTES:
1. TRANSFORMER PAD SHALL BE 6" MIN. WIDER THAN TRANSFORMER ENCLOSURE. TYPICAL TRANSFORMER IS 5'x 8'.
2. GAS METER PAD SHALL BE AS REQUIRED BY PG&E.
3. TRASH ENCLOSURE PAD SHALL BE 8" MIN. AND APRON SHALL EXTEND 10' IN FRONT OF ENCLOSURE.

4 C-5.0 **UTILITY CONCRETE PAD**
NTS



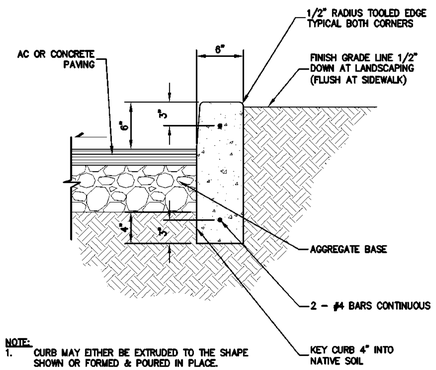
5 C-5.0 **UNIT PAVERS**
NTS

NOTES:
1. CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACE THE ENTIRE RAMP TRAVEL.
2. THE DETECTABLE WARNING BORDER SHALL BE A CONTRASTING SURFACE WITH THE ADJOINING SURFACE. ONLY ADA ACCESSIBLE PRODUCTS APPROVED BY THE DIVISION OF THE STATE ARCHITECT OF CALIFORNIA SHALL BE USED.
3. DOME ORIENTATION SHALL CONFORM TO THE LATEST ADA/TITLE 24 REGULATIONS.
4. IF PRECAST CONCRETE DETECTABLE WARNING DOMES PAVERS ARE USED, THE WILL NEED TO BE INSTALLED ON TOP OF A 4" THICK CONCRETE SURFACE. PAVERS SHALL BE LAID SUCH THAT JOINTS ARE LEVEL WITH ADJOINING SURFACE, TO PROVIDE A SMOOTH TRANSITION FROM PAVER TO PAVER AND FROM PAVER TO CONCRETE.
5. IF PLASTIC MAT DETECTABLE WARNING DOMES ARE USED, THE MAT NEEDS TO BE FLUSH WITH THE ADJOINING CONCRETE SURFACE. WHERE THE MAT IS INSTALLED, THE CONCRETE SURFACE WILL NEED TO BE HELD DOWN THE THICKNESS OF THE MAT.



BOTTOM DIAMETER	0.90"
TOP DIAMETER	0.45"
HEIGHT	0.20"
CENTER-TO-CENTER	2.35"

6 C-5.0 **DETECTABLE WARNING SURFACE**
NTS



NOTE:
1. CURB MAY EITHER BE EXTRUDED TO THE SHAPE SHOWN OR FORMED & POURED IN PLACE.
2. PROVIDE EXPANSION JOINTS AT 15" O.C.

7 C-5.0 **TYPICAL CURB**
NTS

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IMPROVEMENT PLANS
LIFEMOVES MAPLE STREET SHELTER
1580 MAPLE STREET
SAN MATEO COUNTY APN: 052-532-020

DETAILS

1	COUNTY COMMENTS 08-19-16	MH
2	PC#2/ADD#6 09-23-16	MH
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	REVISIONS	BY

JOB NO:	2151287
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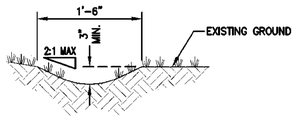
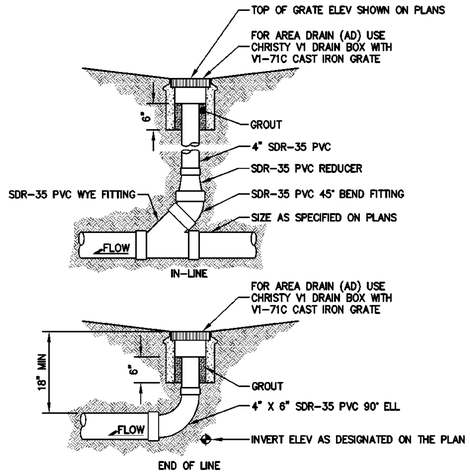
DRAWN BY:	WM
SHEET NO:	C-5.0

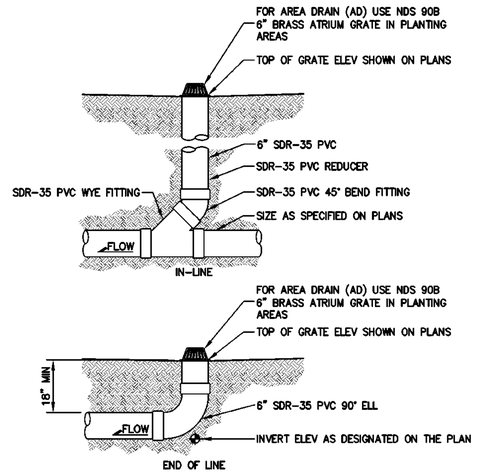


1 C-5.1 **EARTHEN SWALE DETAIL**
NTS



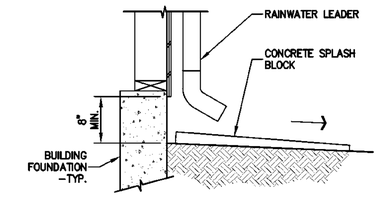
NOTE:
GLUED FITTINGS MAY BE SUBSTITUTED FOR GASKETED FITTINGS AT THE OPTION OF THE INSTALLATION CONTRACTOR.

2 C-5.1 **AREA DRAIN**
NTS

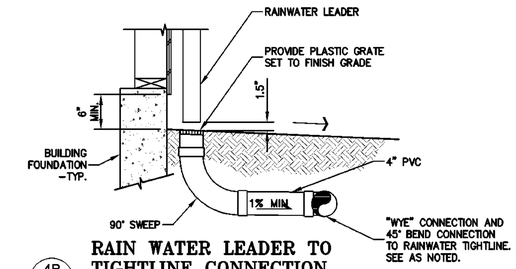


NOTE:
GLUED FITTINGS MAY BE SUBSTITUTED FOR GASKETED FITTINGS AT THE OPTION OF THE INSTALLATION CONTRACTOR.

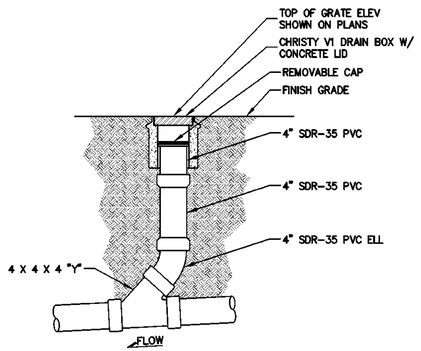
3 C-5.1 **BRASS ATRIUM AREA DRAIN**
NTS



4A C-5.1 **RAIN WATER LEADER**
NTS



4B C-5.1 **RAIN WATER LEADER TO TIGHTLINE CONNECTION**
NTS



5 C-5.1 **ON-SITE CLEANOUT**
NTS

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IMPROVEMENT PLANS
LIFEMOVES MAPLE STREET SHELTER
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SAN MATEO COUNTY APN: 052-532-020

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1 COUNTY COMMENTS 08-19-16	MH
2 PC#2/ADD#6 09-23-16	MH
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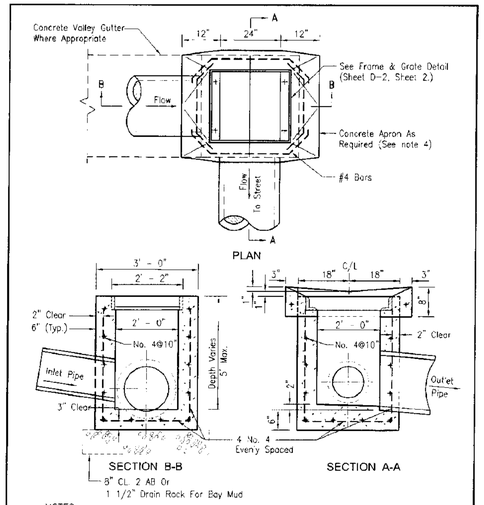
JOB NO:	2151287
DATE:	06-17-16
SCALE:	NTS
DESIGN BY:	MH
DRAWN BY:	WM
SHEET NO:	C-5.1

10 OF 19 SHEETS

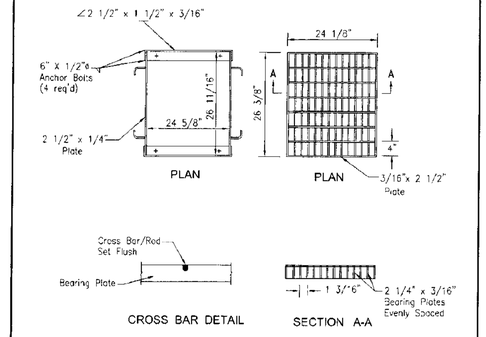


NOTES:

1. Max. outlet pipe 12" diameter.
2. For outlets greater than 12", or deeper than 5', box design shall have prior approval.
3. Provide survey stakes to indicate location and elevation.
4. A concrete apron is required for inlets at valley gutters and paved areas.

NOT TO SCALE

DATE: 06/23/14	CITY OF REDWOOD CITY ENGINEERING AND TRANSPORTATION JUNCTION BOX / AREA DRAIN	STANDARD DETAIL D - 2 SHT 1 OF 2



NOTES:

1. Frame and grate to be made of carbon stee..
2. All surfaces to be galvanized after fabrication.
3. Equivalent to Santa Rosa Model HG grate.

NOT TO SCALE

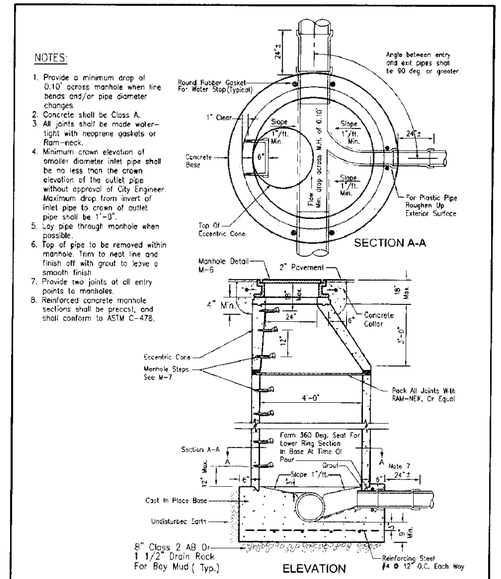
DATE: 06/23/14	CITY OF REDWOOD CITY ENGINEERING AND TRANSPORTATION JUNCTION BOX / AREA DRAIN	STANDARD DETAIL D - 2 SHT 2 OF 2

NOTES:

1. DECAL IS ANODIZED ALUMINUM (COLORED BLUE, GREEN AND SILVER) TO BE FURNISHED BY THE CITY.
2. THIS DECAL TO BE ATTACHED ABOVE CURB INLETS AND CATCH BASINS USING EPOXY CEMENT.

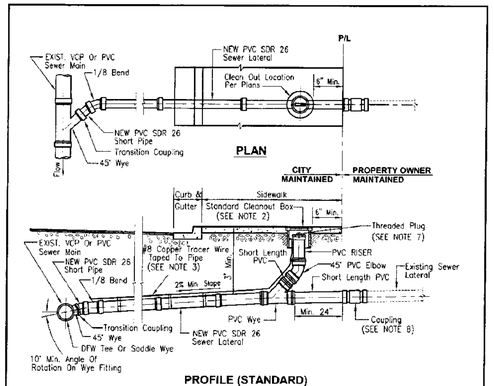
NOT TO SCALE

DATE: 06/23/14	CITY OF REDWOOD CITY ENGINEERING AND TRANSPORTATION MOUNTING PLAQUE FOR INLET LABELING	STANDARD DETAIL D - 9 SHT 1 OF 1



NOT TO SCALE

DATE: 06/23/14	CITY OF REDWOOD CITY ENGINEERING AND TRANSPORTATION TYPE I MANHOLE (PIPES 6" TO 21")	STANDARD DETAIL M - 3 SHT 1 OF 1

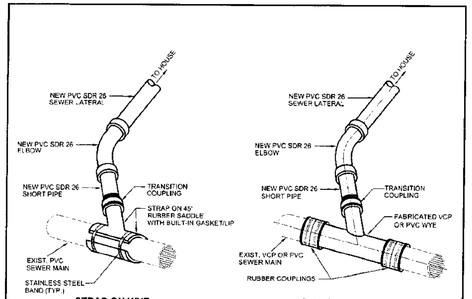


NOTES:

1. Cleanout box shall be Christy concrete type FOB Curb Valve Box with FOBR lid marked "SEWER" when installed in location not subject to vehicular loading.
2. When installed in location subject to vehicular loading, cleanout box shall be Christy concrete type G05T Traffic Valve Box with G05CT Traffic Lid marked "SEWER" and shall be provided with 6" concrete base.
3. Tape #8 Copper tracer wire at 3' interval with filament tape.
4. Lateral and riser shall be ASTM 3034, PVC SDR 26. PVC fittings shall be SDR 26, as per specifications.
5. To connect new lateral to existing main, use Flex-Seal Adjustable Repair Coupling (ARC) with continuous stainless steel shear ring, by Mission Rubber Company (800-854-9991) or approved equal.
6. Stamp "S" on top of curb for all new laterals.
7. Use PVC cleanout with threaded plug.
8. Use flexible non-shear rubber coupling with stainless steel shear band.

NOT TO SCALE

DATE: 06/23/14	CITY OF REDWOOD CITY ENGINEERING AND TRANSPORTATION SANITARY SEWER LATERAL (NEW CONNECTION TO EXIST. SEWER MAIN)	STANDARD DETAIL S - 1 SHT 1 OF 2

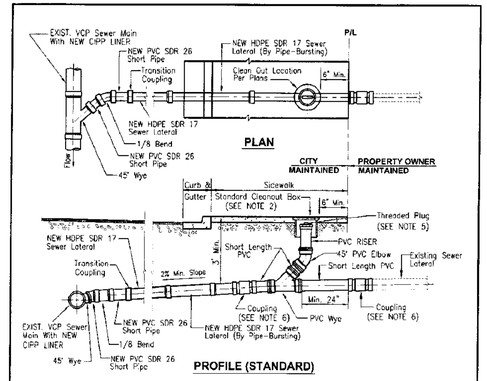


NOTES:

1. RUBBER SADDLES SHALL BE SEALED WITH AN ELASTOMERIC VULCANIZING SEALANT.
2. STAINLESS STEEL SERIES 300 BAND/SCREW AND HOUSING SHALL BE USED FOR SADDLES AND RUBBER COUPLINGS.
3. RUBBER COUPLINGS SHALL BE FLEX-SHEAR ADJUSTABLE RUBBER COUPLING (ARC) WITH STAINLESS STEEL SHEAR RING.
4. THESE DETAILS WORK WITH SANITARY SEWER DETAIL S-1, SHEET 1 OF 2

NOT TO SCALE

DATE: 06/23/14	CITY OF REDWOOD CITY ENGINEERING AND TRANSPORTATION NEW PVC SDR 26 SEWER LATERAL CONNECTION TO EXIST. VCP OR PVC SEWER MAIN	STANDARD DETAIL S - 1 SHT 2 OF 2

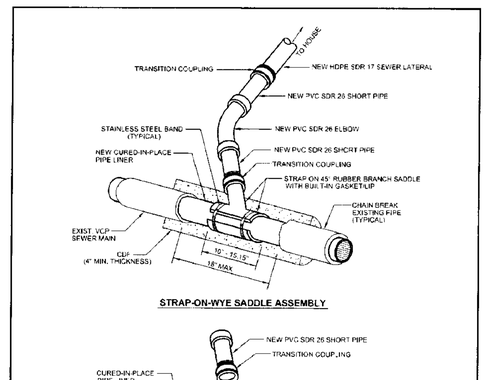


NOTES:

1. Cleanout box shall be Christy concrete type FOB Curb Valve Box with FOBR lid marked "SEWER" when installed in location not subject to vehicular loading.
2. When installed in location subject to vehicular loading, cleanout box shall be Christy concrete type G05T Traffic Valve Box with G05CT Traffic Lid marked "SEWER" and shall be provided with 6" concrete base.
3. Lateral and riser shall be ASTM 3034, PVC SDR 26. PVC fittings shall be SDR 26, as per specifications.
4. Stamp "S" on top of curb for all new laterals.
5. Use PVC cleanout with threaded plug.
6. Use flexible non-shear rubber coupling with stainless steel shear band.

NOT TO SCALE

DATE: 06/23/14	CITY OF REDWOOD CITY ENGINEERING AND TRANSPORTATION SANITARY SEWER LATERAL (NEW HDPE SDR 17 CONNECTION TO EXIST. VCP SEWER MAIN WITH NEW CIPP LINER)	STANDARD DETAIL S - 4 SHT 1 OF 2



NOTE:

1. WORK WITH SANITARY SEWER LATERAL DETAIL S - 4, SHEET 1 OF 2

NOT TO SCALE

DATE: 06/23/14	CITY OF REDWOOD CITY ENGINEERING AND TRANSPORTATION STRAP-ON-WYE SADDLE CONNECTION TO EXIST. VCP WITH NEW CURED-IN-PLACE PIPE LINER	STANDARD DETAIL S - 4 SHT 2 OF 2

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2	PC#2/ADD#6 09-23-16	MH
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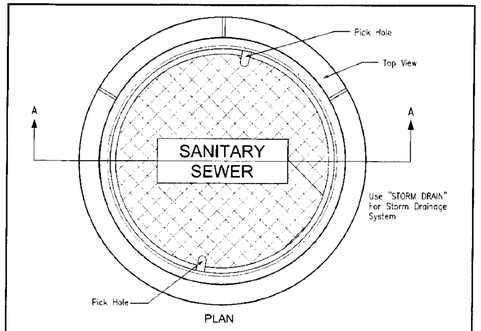
	REVISIONS	BY

JOB NO:	2151287
DATE:	06-17-16
SCALE:	NTS
DESIGN BY:	MH
DRAWN BY:	WM
SHEET NO:	C-5.2

11 OF 19 SHEETS

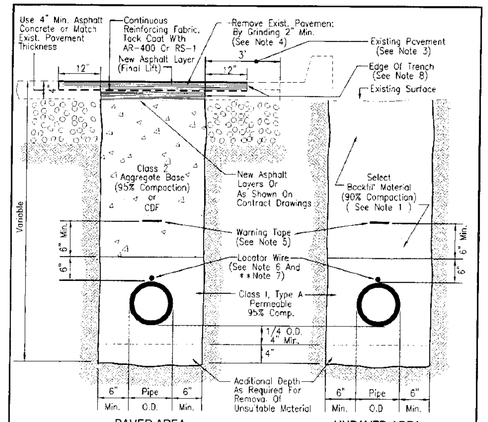


NOTES:

1. All material used in manufacturing shall conform to A.S.T.M. A48, Class 30.
2. All castings to be completely cleaned and painted with asphaltic varnish, after manufacture.
3. Use Phoenix P-1090, C&L Supply A-1024, or equal.

NOT TO SCALE

Redwood City California Incorporated 1867 DATE: 06/23/14	**CITY OF REDWOOD CITY** ENGINEERING AND TRANSPORTATION **MANHOLE FRAME AND COVER**	**STANDARD DETAIL** **M - 6** SHT 1 OF 1



NOTES:

1. Select backfill material – material from excavation, free from stones or lumps exceeding 3" in greatest dimension, vegetable matter or unsatisfactory material. (See Specifications)
2. For new streets use design structural section as shown on plans.
3. If the edge of the trench falls within 3' of the gutter, the entire pavement shall be removed.
4. If existing pavement is less than 3" thick, pavement edge shall be sawcut to full depth in lieu of grinding.
5. Place Warning Tape 14" above pipe.
6. Place locator wire at top of pipe. (For water pipes and sanitary sewer force main pipes only)
* 7. For new sanitary sewer and storm drain projects, locator wire is no longer needed.
8. If in lieu of grinding, the T-trench is cut the full depth of the pavement then the edge of the T-trench shall be considered the new edge of trench.

NOT TO SCALE

Redwood City California Incorporated 1867 DATE: 06/23/14	**CITY OF REDWOOD CITY** ENGINEERING AND TRANSPORTATION **UTILITY TRENCH DETAIL**	**STANDARD DETAIL** **UT - 1** SHT 1 OF 1

PROFESSIONAL ENGINEER JAMES TOBY No. 63127 CIVIL STATE OF CALIFORNIA ORIGINAL SIGNATURES IN BLUE INK

LEA & BRAZE ENGINEERING, INC.
CIVIL ENGINEERS • LAND SURVEYORS

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IMPROVEMENT PLANS
LIFEMOVES MAPLE STREET SHELTER
1580 MAPLE STREET
SAN MATEO COUNTY APN: 052-532-020

DETAILS

1 COUNTY COMMENTS 08-19-16	MH
2 PC#2/ADD#6 09-23-16	MH
–	–
–	–
–	–
REVISIONS	BY

JOB NO:	2151287
DATE:	06-17-16
SCALE:	NTS
DESIGN BY:	MH
DRAWN BY:	WM
SHEET NO:	C-5.3

12 OF 19 SHEETS

CAUTION:

1. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT FOR LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION- PHONE (800) 227-2600. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY WORK ON THIS SITE.

2. THE LOCATION, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS PLAN WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. (A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES). CONTRACTOR SHALL VERIFY LOCATION AND DEPTH PRIOR TO ANY EXCAVATION OR IMPROVEMENT.

3. THESE DRAWINGS DO NOT ADDRESS CONTRACTOR MEANS, METHODS OR PROCESSES THAT MAY BE ASSOCIATED WITH ANY TOXIC SOILS IF FOUND ON SITE. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL CITY AND COUNTY STANDARDS AND APPROPRIATE REGULATIONS IF TOXIC SOILS ARE ENCOUNTERED. CONTRACTOR MUST NOTIFY THE OWNER'S PROJECT MANAGER IMMEDIATELY IF ANY SOILS ARE EVEN SUSPECTED OF BEING CONTAINED.

GENERAL NOTES

1. ALL GENERAL NOTES, SHEET NOTES, AND LEGEND NOTES FOUND IN THESE DOCUMENTS SHALL APPLY TYPICALLY THROUGHOUT. IF INCONSISTENCIES ARE FOUND IN THE VARIOUS NOTATIONS, NOTIFY THE ENGINEER IMMEDIATELY IN WRITING REQUESTING CLARIFICATION.

2. THESE DRAWINGS AND THEIR CONTENT ARE AND SHALL REMAIN THE PROPERTY OF LEA AND BRAZE ENGINEERING, INC. WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE NOT TO BE USED BY ANY PERSONS ON OTHER PROJECTS OR EXTENSIONS OF THE PROJECT EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO THE ENGINEER.

3. ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND TRADE STANDARDS WHICH GOVERN EACH PHASE OF WORK INCLUDING, BUT NOT LIMITED TO, CALIFORNIA MECHANICAL CODE, CALIFORNIA PLUMBING CODE, CALIFORNIA ELECTRICAL CODE, CALIFORNIA FIRE CODE, CALTRANS STANDARDS AND SPECIFICATIONS, AND ALL APPLICABLE STATE AND/OR LOCAL CODES AND/OR LEGISLATION.

4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND ALL SUBCONTRACTORS TO CHECK AND VERIFY ALL CONDITIONS, DIMENSIONS, LINES AND LEVELS INDICATED. PROPER FIT AND ATTACHMENT OF ALL PARTS IS REQUIRED. SHOULD THERE BE ANY DISCREPANCIES, IMMEDIATELY NOTIFY THE ENGINEER FOR CORRECTION OR ADJUSTMENT THE EVENT OF FAILURE TO DO SO, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTION OF ANY ERROR.

5. ALL DIMENSIONS AND CONDITIONS SHALL BE CHECKED AND VERIFIED ON THE JOB BY EACH SUBCONTRACTOR BEFORE HE/SHE BEGINS HIS/HER WORK. ANY ERRORS, OMISSION, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER/CONTRACTOR BEFORE CONSTRUCTION BEGINS.

6. COMMENCEMENT OF WORK BY THE CONTRACTOR AND/OR ANY SUBCONTRACTOR SHALL INDICATE KNOWLEDGE AND ACCEPTANCE OF ALL CONDITIONS DESCRIBED IN THESE CONSTRUCTION DOCUMENTS, OR EXISTING ON SITE, WHICH COULD AFFECT THEIR WORK.

WORK SEQUENCE

1. IN THE EVENT ANY SPECIAL SEQUENCING OF THE WORK IS REQUIRED BY THE OWNER OR THE CONTRACTOR, THE CONTRACTOR SHALL ARRANGE A CONFERENCE BEFORE ANY SUCH WORK IS BEGUN.

2. SITE EXAMINATION: THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL THOROUGHLY EXAMINE THE SITE AND FAMILIARIZE HIM/HERSELF WITH THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. THE CONTRACTOR SHALL VERIFY AT THE SITE ALL MEASUREMENTS AFFECTING HIS/HER WORK AND SHALL BE RESPONSIBLE FOR THE CORRECTIONS OF THE SAME. NO EXTRA COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR EXPENSES DUE TO HIS/HER NEGLECT TO EXAMINE, OR FAILURE TO DISCOVER, CONDITIONS WHICH AFFECT HIS/HER WORK.

3. LEA AND BRAZE ENGINEERING, INC. EXPRESSLY RESERVES ITS COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS IN THESE PLANS. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO A THIRD PARTY WITHOUT FIRST OBTAINING THE WRITTEN PERMISSION AND CONSENT OF LEA AND BRAZE ENGINEERING, INC. IN THE EVENT OF UNAUTHORIZED REUSE OF THESE PLANS BY A THIRD PARTY, THE THIRD PARTY SHALL HOLD HARMLESS LEA AND BRAZE ENGINEERING, INC.

4. CONSTRUCTION IS ALWAYS LESS THAN PERFECT SINCE PROJECTS REQUIRE THE COORDINATION AND INSTALLATION OF MANY INDIVIDUAL COMPONENTS BY VARIOUS CONSTRUCTION INDUSTRY TRADES. THESE DOCUMENTS CANNOT PORTRAY ALL COMPONENTS OR ASSEMBLIES EXACTLY. IT IS THE INTENTION OF THESE ENGINEERING DOCUMENTS THAT THEY REPRESENT A REASONABLE STANDARD OF CARE IN THEIR CONTENT. IT IS ALSO PRESUMED BY THESE DOCUMENTS THAT CONSTRUCTION REVIEW SERVICES WILL BE PROVIDED BY THE ENGINEER. SHOULD THE OWNER NOT RETAIN THE ENGINEER TO PROVIDE SUCH SERVICES, OR SHOULD HE/SHE RETAIN THE ENGINEER TO PROVIDE ONLY PARTIAL OR LIMITED SERVICES, THEN IT SHALL BE THE OWNER'S AND CONTRACTOR'S RESPONSIBILITY TO FULLY RECOGNIZE AND PROVIDE THAT STANDARD OF CARE.

5. IF THE OWNER OR CONTRACTOR OBSERVES OR OTHERWISE BECOMES AWARE OF ANY FAULT OR DEFECT IN THE PROJECT OR NONCONFORMANCE WITH THE CONTRACT DOCUMENTS, PROMPT WRITTEN NOTICE THEREOF SHALL BE GIVEN BY THE OWNER AND/OR CONTRACTOR TO THE ENGINEER.

6. THE ENGINEER SHALL NOT HAVE CONTROL OF OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

SITE PROTECTION

PROTECT ALL LANDSCAPING THAT IS TO REMAIN. ANY DAMAGE OR LOSS RESULTING FROM EXCAVATION, GRADING, OR CONSTRUCTION WORK SHALL BE CORRECTED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING SITE UTILITIES AND SHALL COORDINATE THEIR REMOVAL OR MODIFICATIONS (IF ANY) TO AVOID ANY INTERRUPTION OF SERVICE TO ADJACENT AREAS. THE GENERAL CONTRACTOR SHALL INFORM HIM/HERSELF OF MUNICIPAL REGULATIONS AND CARRY OUT HIS/HER WORK IN COMPLIANCE WITH ALL FEDERAL AND STATE REQUIREMENTS TO REDUCE FIRE HAZARDS AND INJURIES TO THE PUBLIC.

EXISTING CONDITIONS:

1. EXISTING TOPOGRAPHIC SURVEY PERFORMED BY LEA & BRAZE ENGINEERING INC. SURVEYING ON 01-06-16 (JOB #2151288), GRADES ENCOUNTERED ON-SITE MAY VARY FROM THOSE SHOWN. CONTRACTOR SHALL REVIEW THE PLANS AND CONDUCT FIELD INVESTIGATIONS AS REQUIRED TO VERIFY EXISTING CONDITIONS AT THE PROJECT SITE.

2. CLIENT SHALL HOLD HARMLESS LEA & BRAZE ENGINEERING FROM ANY AND ALL OCCURRENCES RESULTING FROM THE ACCURACY/INACCURACY OF THE CLIENT SUPPLIED TOPOGRAPHIC AND BOUNDARY SURVEY (AS PREPARED BY OTHERS).

SURVEYOR'S NOTES:

THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF IT'S DELINEATE OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED. BUT WHICH ARE NOT SHOWN ON THIS SURVEY.

CONTRACTOR SHALL VERIFY ALL UTILITIES IN DEPTH AND LOCATION PRIOR TO CONSTRUCTION.

TREE/PLANT PROTECTION NOTES:

1. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL IDENTIFY, CONFIRM WITH OWNER AND PROTECT EXISTING TREES AND PLANTS DESIGNED AS TO REMAIN.
2. PROVIDE 6 FOOT TALL TREE PROTECTION FENCE WITH DISTINCTIVE MARKING VISIBLE TO CONSTRUCTION EQUIPMENT, ENCLOSING DRIP LINES OF TREES DESIGNED TO REMAIN.
3. WORK REQUIRED WITHIN FENCE LINE SHALL BE HELD TO A MINIMUM, AVOID USE OF HEAVY EQUIPMENT WITHIN FENCED AREA AND DO NOT PARK ANY VEHICLES UNDER DRIP LINE OF TREES. DO NOT STORE EQUIPMENT OR MATERIALS WITHIN FENCE LINE.
4. PRIOR TO REMOVING ROOTS AND BRANCHES LARGER THAN 2" IN DIAMETER OF TREES OR PLANTS THAT IS TO REMAIN, CONSULT WITH THE OWNER'S PROJECT MANAGER.
5. ANY GRADE CHANGES GREATER THAN 6" WITHIN THE DRIPLINE OF EXISTING TREES SHALL NOT BE MADE WITHOUT FIRST CONSULTING THE LANDSCAPE ARCHITECT / CIVIL ENGINEER.
6. PROTECT EXISTING TREES TO REMAIN FROM SPILLED CHEMICALS, FUEL OIL, MOTOR OIL, GASOLINE AND ALL OTHER CHEMICALLY INJURIOUS MATERIALS; AS WELL AS FROM PUDDLING OR CONTINUOUSLY RUNNING WATER. SHOULD A SPILL OCCUR, STOP WORK IN THAT AREA AND CONTACT THE CITY'S ENGINEER / INSPECTOR IMMEDIATELY. CONTRACTOR SHALL BE RESPONSIBLE TO MITIGATE DAMAGE FROM SPILLED MATERIAL AS WELL AS MATERIAL CLEAN UP.
7. PROVIDE TEMPORARY IRRIGATION TO ALL TREES AND PLANTS THAT ARE IN OR ADJACENT TO CONSTRUCTION AREAS WHERE EXISTING IRRIGATION SYSTEMS MAY BE AFFECTED BY THE CONSTRUCTION. ALSO PROVIDE TEMPORARY IRRIGATION TO RELOCATE TREES.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR ONGOING MAINTENANCE OF ALL TREES AND PLANTS DESIGNED TO REMAIN AND FOR MAINTENANCE OF RELOCATED TREES STOCKPILED DURING CONSTRUCTION. CONTRACTOR WILL BE REQUIRED TO REPLACE TREES OR PLANTS THAT DIE DUE TO LACK OF MAINTENANCE.

DEMOLITION NOTES:

1. CONTRACTOR IS TO COMPLY WITH ALL GENERAL AND STATE REQUIREMENTS INVOLVING THE REMOVAL AND DISPOSAL OF HAZARDOUS MATERIAL(S).
2. THE CONTRACTOR SHALL LOCATE AND CLEARLY MARK (AND THEN PRESERVE THESE MARKERS) FOR THE DURATION OF CONSTRUCTION OF ALL TELEPHONE, DATA, STREET LIGHT, SIGNAL LIGHT AND POWER FACILITIES THAT ARE IN OR NEAR THE AREA OF CONSTRUCTION.
3. CONTRACTOR'S BID IS TO INCLUDE ALL VISIBLE SURFACE AND ALL SUBSURFACE FEATURES IDENTIFIED TO BE REMOVED OR ABANDONED IN THESE DOCUMENTS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION, AND STATE JURISDICTIONS.
6. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH DISPOSAL OF MATERIALS.
7. BACKFILL ALL DEPRESSIONS AND TRENCHES FROM DEMOLITION OF FOUNDATIONS & UTILITIES TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
8. WITHIN LIMITS OF WORK, REMOVE CURBS, GUTTERS, LANDSCAPING, SIGNAGE, TREES, SCRUBS, ASPHALT, UNDERGROUND PIPES, ETC. AS INDICATED ON THE PLANS AND SPECIFICATIONS.
9. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
10. PRIOR TO BEGINNING DEMOLITION WORK ACTIVITIES, CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES OUTLINED IN THE EROSION PLAN & DETAILS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING ALL DEMOLITION MATERIALS, OR STORING SELECTED ITEMS BY OWNER'S REPRESENTATIVE AT DESIGNATED LOCATIONS.
12. THE CONTRACTOR SHALL MAINTAIN ALL SAFETY DEVICES, AND SHALL BE RESPONSIBLE FOR CONFORMANCE TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS LAWS AND REGULATIONS.
13. THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING IMPROVEMENTS FACILITIES AND STRUCTURES WHICH ARE TO REMAIN. ANY ITEMS DAMAGED BY THE CONTRACTOR OR HIS AGENTS OF ANY ITEMS REMOVED FOR HIS USE SHALL BE REPLACED IN EQUAL OR BETTER CONDITION AS APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE.
14. COORDINATE WITH ELECTRICAL, MECHANICAL, LANDSCAPING AND ARCHITECTURAL DRAWINGS FOR UTILITY SHUT-DOWN / DISCONNECT LOCATIONS. CONTRACTOR IS TO SHUT OFF ALL UTILITIES AS NECESSARY PRIOR TO DEMOLITION. CONTRACTOR IS TO COORDINATE SERVICE INTERRUPTIONS WITH THE DEVELOPER / OWNER. DO NOT INTERRUPT SERVICES ADJACENT OFF-SITE OWNERS. ALSO SEE ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION SCOPE OF WORK.
15. DEMOLITION INCLUDES REMOVAL OF ALL ITEMS ASSOCIATED WITH THE UTILITY, RETAINING WALL, FENCE, TREE OR BUILDING, INCLUDING BUT NOT LIMITED TO FOOTINGS, VALVES, ROOTS, BACKFILL, ETC. AND SHALL INCLUDE PREPARING THE SITE FOR NEW UTILITIES, BUILDINGS, RETAINING WALLS, ETC.
16. ALL MATERIALS TO BE DEMOLISHED AND REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LAWFULLY DISPOSED OF OFF-SITE.
17. THE PLAN IS NOT INTENDED TO BE A COMPLETE CATALOGUE OF ALL EXISTING STRUCTURES AND UTILITIES. THIS PLAN INTENDS TO DISCLOSE GENERAL INFORMATION KNOWN BY THE ENGINEER AND TO SHOW THE LIMITS OF THE AREA WHERE WORK WILL BE PERFORMED. THIS PLAN SHOWS THE EXISTING FEATURES TAKEN FROM A FIELD SURVEY, FIELD INVESTIGATIONS AND AVAILABLE INFORMATION. THIS PLAN MAY OR MAY NOT ACCURATELY REFLECT THE TYPE OR EXTENT OF THE ITEMS TO BE ENCOUNTERED AS THEY ACTUALLY EXIST. WHERE EXISTING FEATURES ARE NOT SHOWN, IT IS IMPLIED THAT THEY ARE NOT TO BE DEMOLISHED OR REMOVED. THE CONTRACTOR SHALL PERFORM A THOROUGH FIELD INVESTIGATION AND REVIEW OF THE SITE WITHIN THE LIMIT OF WORK SHOWN IN THIS PLAN SET TO DETERMINE THE TYPE, QUANTITY AND EXTENT OF ANY AND ALL ITEMS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE EXTENT OF EXISTING STRUCTURES AND UTILITIES AND QUANTITY OR WORK INVOLVED IN REMOVING THESE ITEMS FROM THE SITE.
18. ALL ABANDONED BUILDINGS AND FOUNDATIONS, TREE (EXCEPT THOSE SPECIFIED TO REMAIN FOR LANDSCAPING PURPOSES), FENCES, VEGETATION AND ANY SURFACE DEBRIS SHALL BE REMOVED AND DISPOSED OF OFF THE SITE BY THE CONTRACTOR.
19. ALL ABANDONED UNDERGROUND TANKS AND ANY OTHER SUBSURFACE STRUCTURES EXISTING IN PROPOSED DEVELOPMENT AREAS SHALL BE REMOVED PRIOR TO ANY GRADING OR FILL OPERATION. ALL APPURTENANT DRAIN FIELDS AND OTHER CONNECTING LINES MUST ALSO BE TOTALLY REMOVED.
20. ALL UNDERGROUND IRRIGATION OR UTILITY LINES SHALL BE REMOVED 5' BEYOND PROPOSED BUILDING FOUNDATION. THE APPROPRIATE FINAL DISPOSITION OF SUCH LINES DEPEND UPON THEIR DEPTH AND LOCATION AND THE METHOD OF REMOVAL OR DEMOLITION SHALL BE DETERMINED BY THE SOILS ENGINEER. ONE OF THE FOLLOWING METHODS WILL BE USED:

    A. EXCAVATE AND TOTALLY REMOVE THE UTILITY LINE FROM THE TRENCH.

    B. EXCAVATE AND CRUSH THE UTILITY LINE IN THE TRENCH.

    C. CAP THE ENDS OF THE UTILITY LINE WITH CONCRETE TO PREVENT THE ENTRANCE OF WATER. THE LOCATIONS AT WHICH THE UTILITY LINE WILL BE CAPPED WILL BE DETERMINED BY THE CITY ENGINEER. THE LENGTH OF THE CAP SHALL NOT BE LESS THAN FIVE FEET, AND THE CONCRETED MIX EMPLOYED SHALL HAVE MINIMUM SHRINKAGE.

PAVEMENT SECTION:.

1. SEE STRUCTURAL DRAWINGS FOR BUILDING SLAB SECTIONS AND PAD PREPARATIONS.
2. SEE GRADING AND DRAINAGE PLAN AS WELL AS DETAIL SHEETS FOR FLATWORK SECTIONS AND BASE REQUIREMENTS.
3. EXISTING PAVEMENT SHALL BE TACK COATED PRIOR TO CONSTRUCTING NEW PAVEMENT.
4. THE FINAL OR SURFACE LAYER OF ASPHALT CONCRETE SHALL NOT BE PLACED UNTIL ALL ON-SITE IMPROVEMENTS HAVE BEEN COMPLETED, INCLUDING ALL GRADING, AND ALL UNACCEPTABLE CONCRETE WORK HAS BEEN REMOVED AND REPLACED. UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER AND/OR DEVELOPER'S CITY ENGINEER.
5. ALL PAVING SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF CALTRANS STANDARD SPECIFICATIONS.

SITE MAINTENANCE:

1. REMOVE ALL DIRT, GRAVEL, RUBBISH, REFUSE, AND GREEN WASTE FROM STREET PAVEMENT AND STORM DRAINS ADJOINING THE SITE. LIMIT CONSTRUCTION ACCESS ROUTES ONTO THE SITE AND PLACE GRAVEL PADS AT THESE LOCATIONS. DO NOT DRIVE VEHICLES AND EQUIPMENT OFF THE PAVED OR GRAVELED AREAS DURING WET WEATHER.
2. SWEEP OR VACUUM THE STREET PAVEMENT AND SIDEWALKS ADJOINING THE PROJECT SITE AND THE ON-SITE PAVED AREAS ON A DAILY BASIS. SCRAPE CAKED-ON MUD AND DIRT FROM THESE AREAS BEFORE SWEEPING. CORNERS AND HARD TO REACH AREAS SHALL BE SWEPT MANUALLY.
3. CONTRACTOR SHALL: GATHER ALL CONSTRUCTION DEBRIS ON A REGULAR BASIS AND PLACE IT IN A DUMPSTER OR OTHER CONTAINER WHICH IS EMPTIED OR REMOVED ON A REGULAR BASIS. WHEN APPROPRIATE, USE TARPS ON THE GROUND TO COLLECT FALLEN DEBRIS OR SPLATTERS THAT COULD CONTRIBUTE TO STORM WATER RUNOFF POLLUTION.
4. IF THE STREET, SIDEWALKS AND/OR PARKING LOT ARE PRESSURE WASHED, DEBRIS MUST BE TRAPPED AND COLLECTED TO PREVENT ENTRY INTO THE STORM DRAIN SYSTEM. NO CLEANING AGENT MAY BE DISCHARGED INTO THE STORM DRAIN. IF ANY CLEANING AGENT OR DEGREASER IS USED, WASHED WATER MUST BE COLLECTED AND DISCHARGED TO THE SANITARY SEWER, SUBJECT TO THE APPROVAL OF THE OWNER'S PROJECT MANAGER, OR OTHERWISE DISPOSED OF THROUGH APPROVED DISPOSAL METHODS.
5. CREATE A CONTAINED AND COVERED AREA ON THE SITE FOR THE STORAGE OF BAGS, CEMENT, PAINTS, OILS, FERTILIZERS, PESTICIDES, OR OTHER MATERIAL USED ON THE SITE THAT HAVE THE POTENTIAL OF BEING WIND-BLOWN OR IN THE EVENT OF A MATERIAL SPILL.
6. NEVER CLEAN MACHINERY, EQUIPMENT OR TOOLS INTO A STREET, GUTTER OR STORM DRAIN.
7. ENSURE THAT CEMENT TRUCKS, PAINTERS, OR STUCCO/PLASTER FINISHING CONTRACTORS DO NOT DISCHARGE WASH WATER FROM EQUIPMENT, TOOLS OR RINSE CONTAINERS INTO GUTTERS OR DRAINS.
8. THE ON-SITE STORM DRAIN FACILITIES SHALL BE CLEANED A MINIMUM OF TWICE A YEAR AS FOLLOWS: IMMEDIATELY PRIOR TO OCTOBER 15TH AND ONCE IN JANUARY. ADDITIONAL CLEANING MAY BE REQUIRED IF FOUND NECESSARY BY THE CITY ENGINEER/INSPECTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR COST ASSOCIATED WITH CLEANING.
9. PREVENT DUST FROM LEAVING THE SITE AND ACCUMULATING ON ADJACENT AREAS AS REQUIRED IN THE DUST CONTROL NOTES ON THIS SHEET.
10. PREVENT SEDIMENT LADEN STORM RUN-OFF FROM LEAVING THE SITE OR ENTERING STORM DRAIN OR SANITARY SEWER SYSTEMS AS REQUIRED IN THE EROSION AND SEDIMENTATION CONTROL NOTES ON THIS SHEET.
11. MAINTAIN EXISTING TREES AND PLANTS THAT ARE TO REMAIN AS REQUIRED BY THE TREE AND PLANT PROTECTION NOTES ON THE SHEET.

EARTHWORK QUANTITY NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE QUANTITIES OF ALL FORMS OF EARTHWORK ON THIS PROJECT AND BASING THE BID ON THOSE QUANTITIES WITH FULL KNOWLEDGE THAT ADDITIONAL PROCESSES - INCLUDING ENGINEERING - AND QUANTITIES ARE ALSO TO BE INCLUDED IN THE BID PER THE FOLLOWING NOTES.

2. THE CONTRACTOR SHALL MAKE AN INITIAL DETERMINATION OF THE QUANTITIES, BASED ON A DETAILED SITE VISIT. THE TOPOGRAPHIC SURVEY, THE GEOTECHNICAL REPORT, THE FINISH GRADES SHOWN ON THESE DRAWINGS, THE SIZE AND EXTENT OF FOOTINGS, THE PREPARATION AND MATERIALS USED FOR BUILDING SLABS, PAVEMENT SECTIONS, AND THE SIZE AND DEPTH OF UTILITY TRENCHES, INCLUDING THE UTILITY CONTRACTORS ANTICIPATED RE-USE OF EXISTING MATERIAL FOR BACKFILL IF ANY.

3. THE CONTRACTOR SHALL MEET THE GRADES SHOWN ON THE DRAWINGS, ADJUSTING THE AMOUNT OF IMPORT OR EXPORT AS REQUIRED TO DO SO. NO ASSUMPTIONS SHOULD BE MADE ABOUT THE SITE BALANCING. NO ADJUSTMENTS TO THE GRADE SHALL BE PERMITTED UNLESS SPECIFICALLY APPROVED BY THE ARCH/ENGR IN WRITING AFTER THE IMPACT OF ANY GRADE CHANGES (IMPACT TO RAMPS, STAIRS, WORK BY OTHERS, ETC.) HAS BEEN THOROUGHLY REVIEWED BY THE ARCH/ENGR. WHEN PREPARING THE EARTHWORK BIDS, DO NOT ASSUME ANY CHANGES TO THE FINISHED GRADES SHOWN ON THESE DRAWINGS WILL BE PERMITTED.

SITE FENCING NOTES:

1. CONTRACTOR SHALL PROVIDE A CONSTRUCTION FENCE AROUND THE ENTIRE AREA OF DEMOLITION AND CONSTRUCTION, INCLUDING ALL STAGING, STORAGE, CONSTRUCTION OFFICE AND LAYDOWN AREAS.
2. FENCE LOCATION MAY BE ADJUSTED FROM TIME TO TIME AS CONSTRUCTION PROCEEDS TO EXCLUDE SOME AREAS WHERE CONSTRUCTION WORK IS NOT BEING DONE AND THE AREA IS NOT OBJECTIONABLE IN VISUAL APPEARANCE, AT THE DISCRETION AND APPROVAL OF THE DISTRICT STAFF.
3. CONSTRUCTION FENCE SHALL BE A MINIMUM OF A 6' HIGH GALVANIZED CHAIN LINK FENCE WITH GREEN WINDSCREEN FABRIC ON THE OUTSIDE OF THE FENCE.
4. CONTRACTOR SHALL REPLACE THE GREEN FABRIC AT LEAST ONCE A YEAR OR AT SUCH A TIME AS IT BECOMES TATTERED AND UNSIGHTLY DUE TO WIND OR CONSTRUCTION ACTIVITIES.

DUST CONTROL:

1. WATER TRUCKS SHALL BE PRESENT AND IN USE AT THE CONSTRUCTION SITE. ALL PORTIONS OF THE SITE SUBJECT TO BLOWING DUST SHALL BE WATERED AS OFTEN AS DEEMED NECESSARY BY THE APPROPRIATE GOVERNMENTAL AGENCY IN ORDER TO ENSURE PROPER CONTROL OF BLOWING DUST FOR THE DURATION OF THE PROJECT.
2. WATERING ASSOCIATED WITH ON-SITE CONSTRUCTION ACTIVITY SHALL TAKE PLACE BETWEEN THE ESTABLISHED CONSTRUCTION HOURS AND SHALL INCLUDE AT LEAST ONE LATE-AFTERNOON WATERING TO MINIMIZE THE EFFECTS OF BLOWING DUST.
3. ALL PUBLIC STREETS AND MEDIANS SOILED OR LITTERED DUE TO THIS CONSTRUCTION ACTIVITY SHALL BE CLEANED AND SWEPT ON A DAILY BASIS DURING THE WORK WEEK, OR AS OFTEN AS DEEMED NECESSARY BY THE OWNER'S ENGINEER/INSPECTOR, TO THE SATISFACTION OF THE CITY'S DEPARTMENT OF PUBLIC WORKS.
4. WATERING ON PUBLIC STREETS OR POWER WASHING SEDIMENTATION ON STREETS SHALL NOT OCCUR, UNLESS CONTRACTOR COLLECTS AND FILTERS THE WASH WATER PRIOR TO ITS ENTERING THE CITY'S STORM DRAIN SYSTEM.
5. ON-SITE PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS SHALL BE SWEPT DAILY WITH A WATER SWEEPER.
6. WHEEL WASHERS SHALL BE INSTALLED AND USED TO CLEAN ALL TRUCKS AND EQUIPMENT LEAVING THE CONSTRUCTION SITE. IF WHEEL WASHERS CANNOT BE INSTALLED, TIRES OR TRACKS OF ALL TRUCKS AND EQUIPMENT SHALL BE WASHED OFF BEFORE LEAVING THE CONSTRUCTION SITE.
7. GRADING OR ANY OTHER OPERATIONS THAT CREATES DUST SHALL BE STOPPED IMMEDIATELY IF DUST AFFECTS ADJACENT PROPERTIES. THE CONTRACTOR SHALL PROVIDE SUFFICIENT DUST CONTROL FOR THE ENTIRE PROJECT SITE IN ACCORDANCE WITH THE PROJECT SWPPP AT ALL TIMES. THE SITE SHALL BE SPRINKLERED AS NECESSARY TO PREVENT DUST NUISANCE. IN THE EVENT THAT THE CONTRACTOR NEGLECTS TO USE ADEQUATE MEASURES TO CONTROL DUST. THE CITY RESERVES THE RIGHT TO TAKE WHATEVER MEASURES ARE NECESSARY TO CONTROL DUST AND CHARGE THE COST TO THE CONTRACTOR.
8. THE PERMITEE IS RESPONSIBLE FOR DUST CONTROL MEASURES AND FOR OBTAINING ALL REQUIRED PERMITS AND APPROVALS. ALL GRADING OPERATIONS SHALL BE SUSPENDED DURING SECOND (OR WORSE) STAGE SMOG ALERTS.
9. ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS SHALL BE COVERED WITH TARPAULINS OR OTHER EFFECTIVE COVERS.

GRADING & DRAINAGE NOTES:

1. SCOPE OF WORK
   THESE SPECIFICATIONS AND APPLICABLE PLANS PERTAIN TO AND INCLUDE ALL SITE GRADING AND EARTHWORK ASSOCIATED WITH THE PROJECT INCLUDING, BUT NOT LIMITED TO THE FURNISHING OF ALL LABOR, TOOLS AND EQUIPMENT NECESSARY FOR SITE CLEARING AND GRUBBING, SITE PREPARATION, DISPOSAL OF EXCESS OR UNSUITABLE MATERIAL, STRIPPING, KEYING, EXCAVATION, OVER EXCAVATION, RECOMPACTION PREPARATION FOR SOIL RECEIVING FILL, PAVEMENT, FOUNDATION OF SLABS, EXCAVATION, IMPORTATION OF ANY REQUIRED FILL MATERIAL, PROCESSING, PLACEMENT AND COMPACTION OF FILL AND SUBSIDIARY WORK NECESSARY TO COMPLETE THE GRADING TO CONFORM TO THE LINES, GRADING AND SLOPE SHOWN ON THE PROJECT GRADING PLANS.
2. GENERAL
   A. ALL SITE GRADING AND EARTHWORK SHALL CONFORM TO THE RECOMMENDATIONS OF THESE SPECIFICATIONS, THE SOILS REPORT BY WAYPOINT ANALYTICAL:"GEOTECHNICAL INVESTIGATIONS", PROJECT NUMBER. 16-092-0105, DATED APRIL 12, 2016.
   B. ALL FILL MATERIALS SHALL BE DENSIFIED SO AS TO PRODUCE A DENSITY NOT LESS THAN 90% RELATIVE COMPACTION BASED UPON ASTM TEST DESIGNATION D1557. FIELD DENSITY TEST WILL BE PERFORMED IN ACCORDANCE WITH ASTM TEST DESIGNATION 2922 AND 3017. THE LOCATION AND FREQUENCY OF THE FIELD DENSITY TEST WILL BE AS DETERMINED BY THE SOIL ENGINEER. THE RESULTS OF THESE TEST AND COMPLIANCE WITH THE SPECIFICATIONS WILL BE THE BASIS UPON WHICH SATISFACTORY COMPLETION OF THE WORK WILL BE JUDGED BY THE SOIL ENGINEER. ALL CUT AND FILL SLOPES SHALL BE CONSTRUCTED AS SHOWN ON PLANS, BUT NO STEEPER THAN TWO (2) HORIZONTAL TO ONE (1) VERTICAL.
   C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SATISFACTORY COMPLETION OF ALL THE EARTHWORK IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. NO DEVIATION FROM THESE SPECIFICATIONS SHALL BE MADE EXCEPT UPON WRITTEN APPROVAL BY THE SOILS ENGINEER. BOTH CUT AND FILL AREAS SHALL BE SURFACE COMPLETED TO THE SATISFACTION OF THE SOILS ENGINEER AT THE CONCLUSION OF ALL GRADING OPERATIONS AND PRIOR TO FINAL ACCEPTANCE. THE CONTRACTOR SHALL NOTIFY THE SOILS ENGINEER AT LEAST TWO (2) WORKING DAYS PRIOR TO DOING ANY SITE GRADING AND EARTHWORK INCLUDING CLEARING.
3. CLEARING AND GRUBBING
   A. THE CONTRACTOR SHALL ACCEPT THE SITE IN ITS PRESENT CONDITION. ALL EXISTING PUBLIC IMPROVEMENTS SHALL BE PROTECTED. ANY IMPROVEMENTS DAMAGED SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE LOCAL JURISDICTION WITH NO EXTRA COMPENSATION.
   B. ALL ABANDONED BUILDINGS AND FOUNDATIONS, TREE (EXCEPT THOSE SPECIFIED TO REMAIN FOR LANDSCAPING PURPOSES), FENCES, VEGETATION AND ANY SURFACE DEBRIS SHALL BE REMOVED AND DISPOSED OF OFF THE SITE BY THE CONTRACTOR.
   C. ALL ABANDONED SEPTIC TANKS AND ANY OTHER SUBSURFACE STRUCTURES EXISTING IN PROPOSED DEVELOPMENT AREAS SHALL BE REMOVED PRIOR TO ANY GRADING OR FILL OPERATION. ALL APPURTENANT DRAIN FIELDS AND OTHER CONNECTING LINES MUST ALSO BE TOTALLY REMOVED.
   D. ALL ABANDONED UNDERGROUND IRRIGATION OR UTILITY LINES SHALL BE REMOVED OR DEMOLISHED. THE APPROPRIATE FINAL DISPOSITION OF SUCH LINES DEPEND UPON THEIR DEPTH AND LOCATION AND THE METHOD OF REMOVAL OR DEMOLITION SHALL BE DETERMINED BY THE SOILS ENGINEER. ONE OF THE FOLLOWING METHODS WILL BE USED:
      (1) EXCAVATE AND TOTALLY REMOVE THE UTILITY LINE FROM THE TRENCH.
      (2) EXCAVATE AND CRUSH THE UTILITY LINE IN THE TRENCH.
      (3) CAP THE ENDS OF THE UTILITY LINE WITH CONCRETE TO PREVENT THE ENTRANCE OF WATER. THE LOCATIONS AT WHICH THE UTILITY LINE WILL BE CAPPED WILL BE DETERMINED BY THE UTILITY DISTRICT ENGINEER. THE LENGTH OF THE CAP SHALL NOT BE LESS THAN FIVE FEET, AND THE CONCRETED MIX EMPLOYED SHALL HAVE MINIMUM SHRINKAGE.
4. SITE PREPARATION AND STRIPPING
   A. ALL SURFACE ORGANICS SHALL BE STRIPPED AND REMOVED FROM BUILDING PADS, AREAS TO RECEIVE COMPACTED FILL AND PAVEMENT AREAS.
   B. UPON THE COMPLETION OF THE ORGANIC STRIPPING OPERATION, THE GROUND SURFACE (NATIVE SOIL SUBGRADE) OVER THE ENTIRE AREA OF ALL BUILDING PADS, STREET AND PAVEMENT AREAS AND ALL AREAS TO RECEIVE COMPACTED FILL SHALL BE PLOWED OR SCARIFIED UNTIL THE SURFACE IS FREE OF RUTS, HUMMOCKS OR OTHER UNEVEN FEATURES WHICH MAY INHIBIT UNIFORM SOIL COMPACTION. THE GROUND SURFACE SHALL THEN BE DISCED OR BLADED TO A DEPTH OF AT LEAST 6 INCHES. UPON ENGINEER'S SATISFACTION, THE NEW SURFACE SHALL BE WATER CONDITIONED AND RECOMPACTED PER REQUIREMENTS FOR COMPACTING FILL MATERIAL.
5. EXCAVATION
   A. UPON COMPLETION OF THE CLEARING AND GRUBBING, SITE PREPARATION AND STRIPPING, THE CONTRACTOR SHALL MAKE EXCAVATIONS TO LINES AND GRADES NOTED ON THE PLAN. WHERE REQUIRED BY THE SOILS ENGINEER, UNACCEPTABLE NATIVE SOILS OR UNENGINEERED FILL SHALL BE OVER EXCAVATED BELOW THE DESIGN GRADE. SEE PROJECT SOILS REPORT FOR DISCUSSION OF OVER EXCAVATION OF THE UNACCEPTABLE MATERIAL. RESULTING GROUND LINE SHALL BE SCARIFIED, MOISTURE-CONDITIONED AND RECOMPACTED AS SPECIFIED IN SECTION 4 OF THESE SPECIFICATIONS. COMPACTED FILL MATERIAL SHALL BE PLACED TO BRING GROUND LEVEL BACK TO DESIGN GRADE.
   B. EXCAVATED MATERIALS SUITABLE FOR COMPACTED FILL MATERIAL SHALL BE UTILIZED IN MAKING THE REQUIRED COMPACTED FILLS. THOSE NATIVE MATERIALS CONSIDERED UNSUITABLE BY THE SOILS ENGINEER SHALL BE DISPOSED OF OFF THE SITE BY THE CONTRACTOR.
6. EXCAVATION
   A. UPON COMPLETION OF THE CLEARING AND GRUBBING, SITE PREPARATION AND STRIPPING, THE CONTRACTOR SHALL MAKE EXCAVATIONS TO LINES AND GRADES NOTED ON THE PLAN. WHERE REQUIRED BY THE SOILS ENGINEER, UNACCEPTABLE NATIVE SOILS OR UNENGINEERED FILL SHALL BE OVER EXCAVATED BELOW THE DESIGN GRADE. SEE PROJECT SOILS REPORT FOR DISCUSSION OF OVER EXCAVATION OF THE UNACCEPTABLE MATERIAL. RESULTING GROUND LINE SHALL BE SCARIFIED, MOISTURE-CONDITIONED AND RECOMPACTED AS SPECIFIED IN SECTION 4 OF THESE SPECIFICATIONS. COMPACTED FILL MATERIAL SHALL BE PLACED TO BRING GROUND LEVEL BACK TO DESIGN GRADE.
   B. EXCAVATED MATERIALS SUITABLE FOR COMPACTED FILL MATERIAL SHALL BE UTILIZED IN MAKING THE REQUIRED COMPACTED FILLS. THOSE NATIVE MATERIALS CONSIDERED UNSUITABLE BY THE SOILS ENGINEER SHALL BE DISPOSED OF OFF THE SITE BY THE CONTRACTOR.

REGISTERED PROFESSIONAL ENGINEER
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No. 63127
CIVIL
STATE OF CALIFORNIA
ORIGINAL SIGNATURES IN BLUE INK

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IMPROVEMENT PLANS
LIFEMOVES MAPLE STREET SHELTER
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SAN MATEO COUNTY
APN: 052-532-020

NOTES

REVISIONS	BY
1 COUNTY COMMENTS 08-19-16	MH
2 PC#2/ADD#6 09-23-16	MH
-	-
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-	-

JOB NO:	2151287
DATE:	06-17-16
SCALE:	NTS
DESIGN BY:	MH
DRAWN BY:	WM
SHEET NO:	C-6.0

GRADING & DRAINAGE NOTES (CONT.):

7. PLACING, SPREADING AND COMPACTING FILL MATERIAL
   A. FILL MATERIALS
   THE MATERIALS PROPOSED FOR USE AS COMPACTED FILL SHALL BE APPROVED BY THE SOILS ENGINEER BEFORE COMMENCEMENT OF GRADING OPERATIONS. THE NATIVE MATERIAL IS CONSIDERED SUITABLE FOR FILL; HOWEVER, ANY NATIVE MATERIAL DESIGNATED UNSUITABLE BY THE SOILS ENGINEER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR. ANY IMPORTED MATERIAL SHALL BE APPROVED FOR USE BY THE SOILS ENGINEER, IN WRITING, BEFORE BEING IMPORTED TO THE SITE AND SHALL POSSESS SUFFICIENT FINES TO PROVIDE A COMPETENT SOIL MATRIX AND SHALL BE FREE OF VEGETATIVE AND ORGANIC MATTER AND OTHER DELETERIOUS MATERIALS. ALL FILL VOIDS SHALL BE FILLED AND PROPERLY COMPACTED. NO ROCKS LARGER THAN THREE INCHES IN DIAMETER SHALL BE PERMITTED.
   B. FILL CONSTRUCTION
   THE SOILS ENGINEER SHALL APPROVE THE NATIVE SOIL SUBGRADE BEFORE PLACEMENT OF ANY COMPACTED FILL MATERIAL. UNACCEPTABLE NATIVE SOIL SHALL BE REMOVED AS DIRECTED BY THE SOILS ENGINEER. THE RESULTING GROUND LINE SHALL BE SCARIFIED MOISTURE CONDITIONED AND RECOMPACTED AS SPECIFIED IN SECTION 4 OF THESE SPECIFICATIONS. COMPACTED FILL MATERIAL SHALL BE PLACED TO BRING GROUND LEVEL BACK TO DESIGN GRADE. GROUND PREPARATION SHALL BE FOLLOWED CLOSELY BY FILL PLACEMENT TO PREVENT DRYING OUT OF THE SUBSOIL BEFORE PLACEMENT OF THE FILL.
   THE APPROVED FILL MATERIALS SHALL BE PLACED IN UNIFORM HORIZONTAL LAYERS NO THICKER THAN 8" IN LOOSE THICKNESS. LAYERS SHALL BE SPREAD EVENLY AND SHALL BE THOROUGHLY BLADE MIXED DURING THE SPREADING TO ENSURE UNIFORMITY OF MATERIAL IN EACH LAYER. THE SCARIFIED SUBGRADE AND FILL MATERIAL SHALL BE MOISTURE CONDITIONED TO AT LEAST OPTIMUM MOISTURE. WHEN THE MOISTURE CONTENT OF THE FILL IS BELOW THAT SPECIFIED, WATER SHALL BE ADDED UNTIL THE MOISTURE DURING THE COMPACTION PROCESS. WHEN THE MOISTURE CONTENT OF THE FILL IS ABOVE THAT SPECIFIED, THE FILL MATERIAL SHALL BE AERATED BY BLADING OR OTHER SATISFACTORY METHODS UNTIL THE MOISTURE CONTENT IS AS SPECIFIED.
   AFTER EACH LAYER HAS BEEN PLACED, MIXED, SPREAD EVENLY AND MOISTURE CONDITIONED, IT SHALL BE COMPACTED TO AT LEAST THE SPECIFIED DENSITY.
   THE FILL OPERATION SHALL BE CONTINUED IN COMPACTED LAYERS AS SPECIFIED ABOVE UNTIL THE FILL HAS BEEN BROUGHT TO THE FINISHED SLOPES AND GRADES AS SHOWN ON THE PLANS. NO LAYER SHALL BE ALLOWED TO DRY OUT BEFORE SUBSEQUENT LAYERS ARE PLACED.
   COMPACTION EQUIPMENT SHALL BE OF SUCH DESIGN THAT IT WILL BE ABLE TO COMPACT THE FILL TO THE SPECIFIED MINIMUM COMPACTION WITHIN THE SPECIFIED MOISTURE CONTENT RANGE. COMPACTION OF EACH LAYER SHALL BE CONTINUOUS OVER ITS ENTIRE AREA UNTIL THE REQUIRED MINIMUM DENSITY HAS BEEN OBTAINED.
8. CUT OR FILL SLOPES
   ALL CONSTRUCTED SLOPES, BOTH CUT AND FILL, SHALL BE NO STEEPER THAN 2 TO 1 (HORIZONTAL TO VERTICAL). DURING THE GRADING OPERATION, COMPACTED FILL SLOPES SHALL BE OVERFILLED BY AT LEAST ONE FOOT HORIZONTALLY AT THE COMPLETION OF THE GRADING OPERATIONS, THE EXCESS FILL EXISTING ON THE SLOPES SHALL BE BLADED OFF TO CREATE THE FINISHED SLOPE EMBANKMENT. ALL CUT AND FILL SLOPES SHALL BE TRACK WALKED AFTER BEING BROUGHT TO FINISH GRADE AND THEN BE PLANTED WITH EROSION CONTROL SLOPE PLANTING. THE SOILS ENGINEER SHALL REVIEW ALL CUT SLOPES TO DETERMINE IF ANY ADVERSE GEOLOGIC CONDITIONS ARE EXPOSED. IF SUCH CONDITIONS DO OCCUR, THE SOILS ENGINEER SHALL RECOMMEND THE APPROPRIATE MITIGATION MEASURES AT THE TIME OF THEIR DETECTION.
9. SEASONAL LIMITS AND DRAINAGE CONTROL
   FILL MATERIALS SHALL NOT BE PLACED, SPREAD OR COMPACTED WHILE IT IS AT AN UNSUITABLY HIGH MOISTURE CONTENT OR DURING OTHERWISE UNFAVORABLE CONDITIONS. WHEN THE WORK IS INTERRUPTED FOR ANY REASON THE FILL OPERATIONS SHALL NOT BE RESUMED UNTIL FIELD TEST PERFORMED BY THE SOILS ENGINEER INDICATE THAT THE MOISTURE CONDITIONS IN AREAS TO BE FILLED ARE AS PREVIOUSLY SPECIFIED. ALL EARTH MOVING AND WORKING OPERATIONS SHALL BE CONTROLLED TO PREVENT WATER FROM RUNNING INTO EXCAVATED AREAS. ALL EXCESS WATER SHALL BE PROMPTLY REMOVED AND THE SITE KEPT DRY.
10. DUST CONTROL
   THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY FOR THE ALLEVIATION OR PREVENTION OF ANY DUST NUISANCE ON OR ABOUT THE SITE CAUSED BY THE CONTRACTOR'S OPERATION EITHER DURING THE PERFORMANCE OF THE GRADING OR RESULTING FROM THE CONDITION IN WHICH THE CONTRACTOR LEAVES THE SITE. THE CONTRACTOR SHALL ASSUME ALL LIABILITY INCLUDING COURT COST OF CO-DEFENDANTS FOR ALL CLAIMS RELATED TO DUST OR WIND-BLOWN MATERIALS ATTRIBUTABLE TO HIS WORK. COST FOR THIS ITEM OF WORK IS TO BE INCLUDED IN THE EXCAVATION ITEM AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
11. INDEMNITY
   THE CONTRACTOR WILL HOLD HARMLESS, INDEMNIFY AND DEFEND THE ENGINEER, THE OWNER AND HIS CONSULTANTS AND EACH OF THEIR OFFICERS AND EMPLOYEES AND AGENTS, FROM ANY AND ALL LIABILITY CLAIMS, LOSSES OR DAMAGE ARISING OR ALLEGED TO HEREIN, BUT NOT INCLUDING THE SOLE NEGLIGENCE OF THE OWNER, THE ARCHITECT, THE ENGINEER AND HIS CONSULTANTS AND EACH OF THEIR OFFICERS AND EMPLOYEES AND AGENTS.
12. SAFETY
   IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE. INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
   THE DUTY OF THE ENGINEERS TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE.
13. GUARANTEE
   NEITHER THE FINAL PAYMENT, NOR THE PROVISIONS IN THE CONTRACT, NOR PARTIAL, NOR ENTIRE USE OR OCCUPANCY OF THE PREMISES BY THE OWNER SHALL CONSTITUTE AN ACCEPTANCE OF THE WORK NOT DONE IN ACCORDANCE WITH THE CONTRACT OR RELIEVES THE CONTRACTOR OF LIABILITY IN RESPECT TO ANY EXPRESS WARRANTIES OR RESPONSIBILITY FOR FAULTY MATERIAL OR WORKMANSHIP. THE CONTRACTOR SHALL REMEDY ANY DEFECTS IN WORK AND PAY FOR ANY DAMAGE TO OTHER WORK RESULTING THERE FROM WHICH SHALL APPEAR WITHIN A PERIOD OF ONE (1) CALENDAR YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK.
14. TRENCH BACKFILL
   EITHER THE ON-SITE INORGANIC SOIL OR APPROVED IMPORTED SOIL MAY BE USED AS TRENCH BACKFILL. THE BACKFILL MATERIAL SHALL BE MOISTURE CONDITIONED PER THESE SPECIFICATIONS AND SHALL BE PLACED IN LIFTS OF NOT MORE THAN SIX INCHES IN HORIZONTAL UNCOMPACTED LAYERS AND BE COMPACTED BY MECHANICAL MEANS TO A MINIMUM OF 90% RELATIVE COMPACTION. IMPORTED SAND MAY BE USED FOR TRENCH BACKFILL MATERIAL PROVIDED IT IS COMPACTED TO AT LEAST 90% RELATIVE COMPACTION. WATER JETTING ASSOCIATED WITH COMPACTION USING VIBRATORY EQUIPMENT WILL BE PERMITTED ONLY WITH IMPORTED SAND BACKFILL WITH THE APPROVAL OF THE SOILS ENGINEER. ALL PIPES SHALL BE BEDDED WITH SAND EXTENDING FROM THE TRENCH BOTTOM TO TWELVE INCHES ABOVE THEPIPE. SAND BEDDING IS TO BE COMPACTED AS SPECIFIED ABOVE FOR SAND BACKFILL.
15. EROSION CONTROL
   A. ALL GRADING, EROSION AND SEDIMENT CONTROL AND RELATED WORK UNDERTAKEN ON THIS SITE IS SUBJECT TO ALL TERMS AND CONDITIONS OF THE COUNTY GRADING ORDINANCE AND MADE A PART HEREOF BY REFERENCE.
   B. THE CONTRACTOR WILL BE LIABLE FOR ANY AND ALL DAMAGES TO ANY PUBLICLY OWNED AND MAINTAINED ROAD CAUSED BY THE AFORESAID CONTRACTOR'S GRADING ACTIVITIES, AND SHALL BE RESPONSIBLE FOR THE CLEANUP OF ANY MATERIAL SPILLED ON ANY PUBLIC ROAD ON THE HAUL ROUTE.
   C. THE EROSION CONTROL MEASURES ARE TO BE OPERABLE DURING THE RAINY SEASON, GENERALLY FROM OCTOBER FIRST TO APRIL FIFTEENTH. EROSION CONTROL PLANTING IS TO BE COMPLETED BY OCTOBER FIRST. NO GRADING OR UTILITY TRENCHING SHALL OCCUR BETWEEN OCTOBER FIRST AND APRIL FIFTEENTH UNLESS AUTHORIZED BY THE LOCAL JURISDICTION.
   D. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED AND CHANGES TO THIS EROSION AND SEDIMENT CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF THE SOILS ENGINEER.
   E. DURING THE RAINY SEASON, ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEM.
   F. ALL EROSION CONTROL FACILITIES MUST BE INSPECTED AND REPAIRED AT THE END OF EACH WORKING DAY DURING THE RAINY SEASON.
   G. WHEN NO LONGER NECESSARY AND PRIOR TO FINAL ACCEPTANCE OF DEVELOPMENT, SEDIMENT BASINS SHALL BE REMOVED OR OTHERWISE DEACTIVATED AS REQUIRED BY THE LOCAL JURISDICTION.
   H. A CONSTRUCTION ENTRANCE SHALL BE PROVIDED AT ANY POINT OF EGRESS FROM THE SITE TO ROADWAY. A CONSTRUCTION ENTRANCE SHOULD BE COMPOSED OF COARSE DRAIN ROCK (2" TO 3") MINIMUM DIAMETER) AT LEAST EIGHT INCHES THICK BY FIFTY (50) FEET LONG BY TWENTY (20) FEET WIDE UNLESS SHOWN OTHERWISE ON PLAN AND SHALL BE MAINTAINED UNTIL THE SITE IS PAVED.
   I. ALL AREAS SPECIFIED FOR HYDROSEEDING SHALL BE NOZZLE PLANTED WITH STABILIZATION MATERIAL CONSISTING OF FIBER, SEED, FERTILIZER AND WATER, MIXED AND APPLIED IN THE FOLLOWING PROPORTIONS:
      FIBER, 2000 LBS/ACRE
      SEED, 55 LBS/ACRE (SEE NOTE J, BELOW)
      FERTILIZER (7-2-1), 1,000 LBS/ACRE
      WATER, AS REQUIRED FOR APPLICATION
   J. SEED MIX SHALL BE PER CALTRANS STANDARDS.
   K. WATER UTILIZED IN THE STABILIZATION MATERIAL SHALL BE OF SUCH QUALITY THAT IT WILL PROMOTE GERMINATION AND STIMULATE GROWTH OF PLANTS. IT SHALL BE FREE OF POLLUTANT MATERIALS AND WEED SEED.
   L. HYDROSEEDING SHALL CONFORM TO THE PROVISIONS OF SECTION 20, EROSION CONTROL AND HIGHWAY PLANTING", OF THE STANDARD SPECIFICATIONS OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, AS LAST REVISED.
   M. A DISPERSING AGENT MAY BE ADDED TO THE HYDROSEEDING MATERIAL, PROVIDED THAT THE CONTRACTOR FURNISHES SUITABLE EVIDENCE THAT THE ADDITIVE WILL NOT ADVERSELY AFFECT THE PERFORMANCE OF THE SEEDING MIXTURE.
   N. STABILIZATION MATERIALS SHALL BE APPLIED AS SOON AS PRACTICABLE AFTER COMPLETION OF GRADING OPERATIONS AND PRIOR TO THE ONSET OF WINTER RAINS, OR AT SUCH OTHER TIME AS DIRECTED BY THE COUNTY ENGINEER. THE MATERIAL SHALL BE APPLIED BEFORE INSTALLATION OF OTHER LANDSCAPING MATERIALS SUCH AS TREES, SHRUBS AND GROUND COVERS.
   O. THE STABILIZATION MATERIAL SHALL BE APPLIED WITHIN 4-HOURS AFTER MIXING. MIXED MATERIAL NOT USED WITHIN 4-HOURS SHALL BE REMOVED FROM THE SITE.
   P. THE CONTRACTOR SHALL MAINTAIN THE SOIL STABILIZATION MATERIAL AFTER PLACEMENT. THE COUNTY ENGINEER MAY REQUIRE SPRAY APPLICATION OF WATER OR OTHER MAINTENANCE ACTIVITIES TO ASSURE THE EFFECTIVENESS OF THE STABILIZATION PROCESS. APPLICATION OF WATER SHALL BE ACCOMPLISHED USING NOZZLES THAT PRODUCE A SPRAY THAT DOES NOT CONCENTRATE OR WASH AWAY THE STABILIZATION MATERIALS.
6. CLEANUP
   THE CONTRACTOR MUST MAINTAIN THE SITE CLEAN, SAFE AND IN USABLE CONDITION. ANY SPILLS OF SOIL, ROCK OR CONSTRUCTION MATERIAL MUST BE REMOVED FROM THE SITE BY THE CONTRACTOR DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. COST FOR THIS ITEM OF WORK SHALL BE INCLUDED IN THE EXCAVATION AND COMPACTION ITEM AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

GENERAL UTILITY SYSTEM NOTES:

1. ALL TRENCHES SHALL BE BACKFILLED PER THE GEOTECHNICAL ENGINEER RECCOMMENDATIONS.
2. CLEAN OUTS, CATCH BASINS AND AREA DRAINS ARE TO BE ACCURATELY LOCATED BY THEIR RELATIONSHIP TO THE BUILDING, FLATWORK, ROOF DRAINS, AND/OR CURB LAYOUT, NOT BY THE LENGTH OF PIPE SPECIFIED IN THE DRAWINGS (WHICH IS APPROXIMATE).
3. CONTRACTOR SHALL STAKE LOCATION OF ABOVE GROUND UTILITY EQUIPMENT (BACKFLOW PREVENTOR, SATELLITE DISH, TRANSFORMER, GAS METER, ETC.) AND MEET WITH OWNER TO REVIEW LOCATION PRIOR TO INSTALLATION. PLANNING DEPARTMENT MUST SPECIFICALLY AGREE WITH LOCATION PRIOR TO PROCEEDING WITH THE INSTALLATION.
4. CONTRACTOR SHALL PREPARE AN ACCURATE COMPOSITE UTILITY PLAN THAT TAKES INTO ACCOUNT THE ACTUAL LOCATION OF EXISTING UTILITIES AS DETERMINED DURING THE DEMOLITION WORK. THE UTILITIES SHOWN ON THE CIVIL DRAWINGS, AND THE SITE POWER, CONDUITS AND LIGHTING SHOWN ON THE ELECTRICAL PLANS. THE FIRE SPRINKLER SYSTEM SHALL BE INCLUDED AS DESIGNED BY THE DESIGN/BUILD UNDERGROUND FIRE SPRINKLER CONTRACTOR.
5. COMPLETE SYSTEMS: ALL UTILITY SYSTEMS ARE DELINEATED IN A SCHEMATIC MANNER ON THESE PLANS. CONTRACTOR IS TO PROVIDE ALL FITTINGS, ACCESSORIES, AND WORK NECESSARY TO COMPLETE THE UTILITY SYSTEM SO THAT IT IS FULLY FUNCTIONING FOR THE PURPOSE INTENDED.
6. UNDERGROUND UTILITIES OR STRUCTURES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS AND EXTENT BASED UPON RECORD INFORMATION. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE ON THE ACCURACY OR COMPLETENESS FOR THE INFORMATION SHOWN. THE OWNER, BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO, AGREES TO ASSUME LIABILITY AND TO HOLD THE UNDERSIGNED HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE UNDERSIGNED; NOT INDICATED ON THE PUBLIC RECORDS EXAMINED, LOCATED AT VARIANCE WITH THOSE REPORTED OR SHOWN ON RECORDS EXAMINED.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES FROM DAMAGE DURING COMPACTION OF ROADWAY SUBGRADE AND PRIOR TO PLACEMENT OF FINAL PAVEMENT SECTIONS.
8. CONTRACTOR SHALL VERIFY ALL EXISTING INVERT ELEVATIONS FOR STORM DRAIN AND SANITARY SEWER CONSTRUCTION PRIOR TO COMMENCEMENT OF ANY WORK. ALL WORK FOR STORM AND SANITARY SEWER INSTALLATION SHALL BEGIN AT THE DOWNSTREAM CONNECTION POINT. THIS WILL ALLOW FOR ANY NECESSARY ADJUSTMENTS TO BE MADE PRIOR TO THE INSTALLATION OF THE ENTIRE LINE. IF THE CONTRACTOR FAILS TO BEGIN AT THE DOWNSTREAM CONNECTION POINT AND WORKS UP STREAM, HE SHALL PROCEED AT HIS OWN RISK AND BE RESPONSIBLE FOR ANY ADJUSTMENTS NECESSARY. CONTRACTOR SHALL VERIFY LOCATION OF SANITARY SEWER LATERAL WITH OWNER PRIOR TO CONSTRUCTION.
9. EXISTING UTILITY CROSSINGS OF THE NEW PIPELINE ARE SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. GAS, WATER AND SEWER, SERVICE LATERALS ARE SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE TYPE, SIZE, LOCATION, AND DEPTH OF ALL EXISTING UTILITIES (BOTH MAINS AND LATERALS) ARE CORRECT AS SHOWN. NO GUARANTEE IS MADE THAT ALL EXISTING UTILITIES (BOTH MAINS AND LATERALS) ARE SHOWN. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING AND SHALL PROTECT ALL EXISTING UTILITIES (BOTH MAINS AND LATERALS) FROM DAMAGE DUE TO HIS OPERATION.
10. CONTRACTOR SHALL UNCOVER AND EXPOSE ALL EXISTING UTILITY AND SEWER LINES WHERE THEY ARE TO BE CROSSED ABOVE OR BELOW BY THE NEW FACILITY BEING CONSTRUCTED IN ORDER TO VERIFY THE GRADE AND TO ENSURE THAT THERE IS SUFFICIENT CLEARANCE.
   VERTICAL SEPARATION REQUIREMENTS:
   A MINIMUM OF SIX (6) INCHES VERTICAL CLEARANCE SHALL BE PROVIDED BETWEEN CROSSING UTILITY PIPES, EXCEPT THAT THE MINIMUM VERTICAL CLEARANCE BETWEEN WATER AND SANITARY SEWER PIPELINES SHALL BE 12 INCHES AND ALL NEW WATER PIPES SHALL BE TYPICALLY INSTALLED TO CROSS ABOVE/OVER EXISTING SANITARY SEWER PIPELINES.
   WHERE NEW WATER PIPELINES ARE REQUIRED TO CROSS UNDER EXISTING AND/OR NEW SANITARY SEWER PIPELINES, THE MINIMUM VERTICAL SEPARATION SHALL BE 12 INCHES. WATER LINE PIPE ENDS SHALL BE INSTALLED NO CLOSER THEN 10' MINIMUM HORIZONTAL DISTANCE FROM CENTERLINE OF UTILITY CROSSINGS WHERE FEASIBLE.
   HORIZONTAL SEPARATION REQUIREMENTS:
   A MINIMUM HORIZONTAL SEPARATION BETWEEN NEW PIPELINES AND ANY EXISTING UTILITIES SHALL BE 5' FEET EXCEPT THAT THE MINIMUM HORIZONTAL SEPARATION FOR WATER AND SANITARY SEWER PIPELINES SHALL BE 10' MINIMUM, UNLESS OTHERWISE NOTED.
   A MINIMUM HORIZONTAL SEPARATION BETWEEN NEW PIPELINES AND JOINT TRENCH SHALL BE 5 FEET.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING APPROPRIATE UTILITIES AND REQUESTING VERIFICATION OF SERVICE POINTS, FIELD VERIFICATION OF LOCATION, SIZE, DEPTH, ETC. FOR ALL THEIR FACILITIES AND TO COORDINATE WORK SCHEDULES.

STORM DRAIN NOTES:

1. ALL STORM DRAIN PIPE SHALL BE PVC SDR 35. PIPE SHALL BE SIZED AS SPECIFIED ON THE PLANS. ALL DIRECTION CHANGES SHALL BE MADE WITH A WYE CONNECTION OR LONG SWEEP ELBOWS, REGULAR ELBOWS, AND TEE'S SHOULD BE AVOIDED.
2. USE DETECTABLE METALIZED WARNING TAPE APPROXIMATE 6" BELOW THE SURFACE. TAPE SHALL BE A BRIGHT COLOR AND IMPRINTED WITH "CAUTION-STORM DRAIN LINE BELOW", CALPICO TYPE 2 OR EQUAL.
3. PAINT THE TOP OF THE CURBS ADJACENT TO EACH CATCH BASIN INSTALLED UNDER THE WORK OR ADJACENT TO THIS SITE WITH THE WORDS "NO DUMPING! FLOWS TO BAY" PER COUNTY STANDARDS.
4. ALL AREA DRAINS AND CATCH BASINS GRATES WITHIN PEDESTRIAN ACCESSIBLE AREAS SHALL MEET ADA REQUIREMENTS.
5. ALL TRENCHES SHALL BE BACKFILLED PER THE SPECIFICATIONS WITH APPROPRIATE TEST BY THE GEOTECHNICAL ENGINEER TO VERIFY COMPACTION VALUES.
6. FOR GRAVITY FLOW SYSTEMS CONTRACTOR SHALL VERIFY (POTHOLE IF NECESSARY) SIZE, MATERIAL, LOCATION AND DEPTH OF ALL SYSTEMS ARE TO BE CONNECTED TO OR CROSSED PRIOR TO TRENCHING OR INSTALLATION OF ANY GRAVITY FLOW SYSTEM.
7. COMPLETE SYSTEMS; ALL UTILITY SYSTEMS ARE DELINEATED IN SCHEMATIC MANNER ON THESE PLANS. CONTRACTOR IS TO PROVIDE ALL FITTINGS, ACCESSORIES, AND WORK NECESSARY TO COMPLETE THE UTILITY SYSTEM SO THAT IT IS FULLY FUNCTIONING FOR THE PURPOSE INTENDED.
8. PRIVATE STORM DRAIN LINE WITH A MINIMUM OF TWO (2) FEET OF COVER IN NON-TRAFFIC AREAS SHALL BE POLYVINAL CHLORIDE (PVC) SDR 35.

SANITARY SEWER NOTES:

1. INSTALL DETECTABLE METALIZED WARNING TAPE APPROXIMATELY 6"-12" BELOW THE SERVICE IN NON-PAVED AREAS, AND AT THE BOTTOM OF BASEROCK FOR PAVED AREAS. GREEN IMPRINTED WITH "CAUTION- SANITARY SEWER LINE BELOW", CALPICO TYPE 2 OR EQUAL.
2. ALL SEWER WORK SHALL BE IN CONFORMANCE WITH THE CITY/TOWN OR APPROPRIATE SANITARY SEWER DISTRICT.
3. PUBLIC AND PRIVATE SANITARY SEWER MAIN AND SERVICE LINE 4-INCH THROUGH 8-INCH SHALL BE POLYVINYL CHLORIDE (PVC) SDR 26 SEWER PIPE.
4. WHERE CONNECTION IS TO BE MADE TO AN EXISTING SEWER OR STRUCTURE, SAID EXISTING SEWER OR STRUCTURE SHALL BE UNCOVERED AND CHECKED FOR LOCATION AND ELEVATION PRIOR TO STAKING NEW SEWER DEPTH AND LOCATION. ANY DISCREPANCY BETWEEN THE PLANS AND THE FIELD INFORMATION SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
5. MINIMUM SLOPE FOR SITE SANITARY SEWER PIPES SHALL BE CURRENT UPC REQUIREMENTS:
   4" - 2%
   6" - 1%
   8" & LARGER - 0.5%
6. ALL LATERALS SHALL HAVE A CLEANOUT AT THE FACE OF THE BUILDING AND AT THE PROPERTY LINE, AS SHOWN ON THE PLANS AND PER THE CITY/TOWN STANDARDS OR APPROPRIATE SANITARY SEWER DISTRICT.

WATER SYSTEM NOTES:

1. WHERE WATER LINES HAVE TO CROSS SANITARY SEWER LINES, DO SO AT A 90 DEGREE ANGLE AND WATER LINES SHALL BE MINIMUM OF 12" ABOVE THE TOP OF THE SANITARY SEWER LINES.
2. WATER LINES ARE SHOWN SCHEMATICALLY; CONTRACTOR SHALL IDENTIFY EACH ANGLE AND/ OR BEND THAT MAY BE REQUIRED TO ACCOMPLISH THE INTENDED DESIGN.
3. USE DETECTABLE METALIZED WARNING TAPE APPROXIMATELY 6" BELOW THE SURFACE, TAPE SHALL BE A BRIGHT COLOR AND IMPRINTED WITH "CAUTION-WATER LINE BELOW", CALPICO TYPE 2 OR EQUAL.
4. ALL WATER SERVICE CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY/COUNTY OR APPLICABLE WATER DISTRICT STANDARDS.
5. WATER MAIN AND WATER SERVICE LINE 2-INCH THROUGH 12-INCH SHALL BE POLYVINYL CHLORIDE (PVC) AND SHALL MEET AWWA C900, RATED FOR 200 PSI CLASS PIPE WITH EPOXY COATED DUCTILE IRON FITTINGS AND FUSION EPOXY COATED GATE VALVES. ALL JOINTS SHALL FACTORY MANUFACTURED WITH BEL AND SPIGOT ENDS AND RUBBER GASKETS. NONMETALLIC WATER LINES HAVE TRACER WIRE INSTALLED PER CITY/COUNTY STANDARDS.
6. CONNECTION TO THE EXISTING WATER MAIN SHALL BE APPROVED BY THE CITY/TOWN. THE DEVELOPER SHALL PAY THE ACTUAL COSTS OF CONSTRUCTION. THE CONTRACTOR SHALL PERFORM ALL EXCAVATION PREPARE THE SITE, FURNISH ALL MATERIALS, INSTALL TAPPING TEE VALVE AND ALL THRUST BLOCKS. BACKFILL, RESTORE THE SURFACE, AND CLEANUP. THE CITY WILL PROVIDE THE DEVELOPER WITH A LIST OF APPROVED CONTRACTORS FOR MAKING WET TAPS. NONMETALLIC WATER LINES SHALL HAVE TRACER WIRES INSTALLED.
7. ALL WATER LINES SHALL BE INSTALLED WITH 3' MINIMUM COVER.
8. ALL WATER VALVES SHALL BE PER CITY\WATER DISTRICT STANDARD.
9. CONCRETE THRUST BLOCKS SHALL BE INSTALLED AT ALL TEES, CROSSES, BENDS (HORIZONTAL AND VERTICAL), AT SIZE CHANGES AND AT FIRE HYDRANTS PER CITY STANDARD. AWWA C600, SECTION 3.8 UNLESS NOTED OTHERWISE.
10. ALL WATER VALVES SHALL BE CLUSTERED, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER OR WATER DISTRICT.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTING AND DELIVERING WATER SAMPLES FOR ANALYSIS TO A CITY APPROVED LAB.
12. ALL LANDSCAPE IRRIGATION SYSTEMS SHALL BE IN ACCORDANCE WITH THE LANDSCAPE ARCHITECTURAL PLANS AND SPECIFICATIONS AND SHALL BE CONNECTED TO THE EXISTING AND/OR NEW WATER SYSTEM AND METERED ACCORDINGLY.
13. INSTALL CITY/COUNTY APPROVED PRESSURE REGULATOR AND REDUCED BACKFLOW PREVENT OR ON WATER LINE AT ENTRANCE TO BUILDING REFERENCE PLUMBING PLANS FOR MORE DETAIL.

STORMWATER POLLUTION PREVENTION NOTES

1. STORE, HANDLE, AND DISPOSE OF CONSTRUCTION MATERIALS AND WASTES PROPERLY, SO AS TO PREVENT THEIR CONTACT WITH STORMWATER.
2. CONTROL AND PREVENT THE DISCHARGE OF ALL POTENTIAL POLLUTANTS, INCLUDING SOLID WASTES, PAINTS, CONCRETE, PETROLEUM PRODUCTS, CHEMICALS, WASH WATER OR SEDIMENT, AND NON-STORMWATER DISCHARGES TO STORM DRAINS AND WATER COURSES.
3. USE SEDIMENT CONTROL OR FILTRATION TO REMOVE SEDIMENT FROM DEWATERING EFFLUENT.
4. AVOID CLEANING, FUELING, OR MAINTAINING VEHICLES ON SITE, EXCEPT IN A DESIGNATED AREA IN WHICH RUNOFF IS CONTAINED AND TREATED.
5. DELINEATE CLEARING LIMITS, EASEMENTS, SETBACKS, SENSITIVE OR CRITICAL AREAS, BUFFER ZONES, TREES AND DISCHARGE COURSE WITH FIELD MARKERS.
6. PROTECT ADJACENT PROPERTIES AND UNDISTURBED AREAS FROM CONSTRUCTION IMPACTS USING VEGETATIVE BUFFER STRIPS, SEDIMENT BARRIERS OF FILTERS, DIKES, MULCHING, OR OTHER MEASURES AS APPROPRIATE.
7. PERFORM CLEARING AND EARTH MOVING ACTIVITIES DURING DRY WEATHER TO THE MAXIMUM EXTENT PRACTICAL.
8. LIMIT AND TIME APPLICATIONS OF PESTICIDES AND FERTILIZERS TO PREVENT POLLUTED RUNOFF.
9. LIMIT CONSTRUCTION ACCESS ROUTES AND STABILIZE DESIGNATED ACCESS POINTS.
10. AVOID TRACKING DIRT OR MATERIALS OFF-SITE; CLEAN OFF-SITE PAVED AREAS AND SIDEWALKS USING DRY SWEEPING METHODS TO THE MAXIMUM EXTENT PRACTICAL.

SUPPLEMENTAL MEASURES

A. THE PHRASE "NO DUMPING - DRAINS TO BAY" OR EQUALLY EFFECTIVE PHRASE MUST BE LABELED ON STORM DRAIN INLETS (BY STENCILING, BRANDING, OR PLAQUES) TO ALERT THE PUBLIC TO THE DESTINATION OF STORM WATER AND TO PREVENT DIRECT DISCHARGE OF POLLUTANTS INTO THE STORM DRAIN.
B. USING FILTRATION MATERIALS ON STORM DRAIN COVERS TO REMOVE SEDIMENT FROM DEWATERING EFFLUENT.
C. STABILIZING ALL DENUDED AREAS AND MAINTAINING EROSION CONTROL MEASURES CONTINUOUSLY FROM OCTOBER 15 AND APRIL 15.
D. REMOVING SPOILS PROMPTLY, AND AVOID STOCKPILING OF FILL MATERIALS, WHEN RAIN IS FORECAST. IF RAIN THREATENS, STOCKPILED SOILS AND OTHER MATERIALS SHALL BE COVERED WITH A TARP OR OTHER WATERPROOF MATERIAL.
E. STORING, HANDLING, AND DISPOSING OF CONSTRUCTION MATERIALS AND WASTES SO AS TO AVOID THEIR ENTRY TO THE STORM DRAIN SYSTEMS OR WATER BODY.
F. AVOIDING CLEANING, FUELING, OR MAINTAINING VEHICLES ON-SITE, EXCEPT IN AN AREA DESIGNATED TO CONTAIN AND TREAT RUNOFF.

NOTE:
THESE NOTES ARE INTENDED TO BE USED AS A GENERAL GUIDELINE. THE REFERENCED SOILS REPORT FOR THE PROJECT AND GOVERNING AGENCY GRADING ORDINANCE SHALL SUPERSEDE THESE NOTES. THE SOILS ENGINEER MAY MAKE ON-SITE RECOMMENDATIONS DURING GRADING OPERATIONS.

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IMPROVEMENT PLANS
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1580 MAPLE STREET
SAN MATEO COUNTY
APN: 052-532-020

NOTES

1	COUNTY COMMENTS 08-19-16	MH
2	PC#2/ADD#6 09-23-16	MH
	-	-
	-	-
	-	-
	REVISIONS	BY

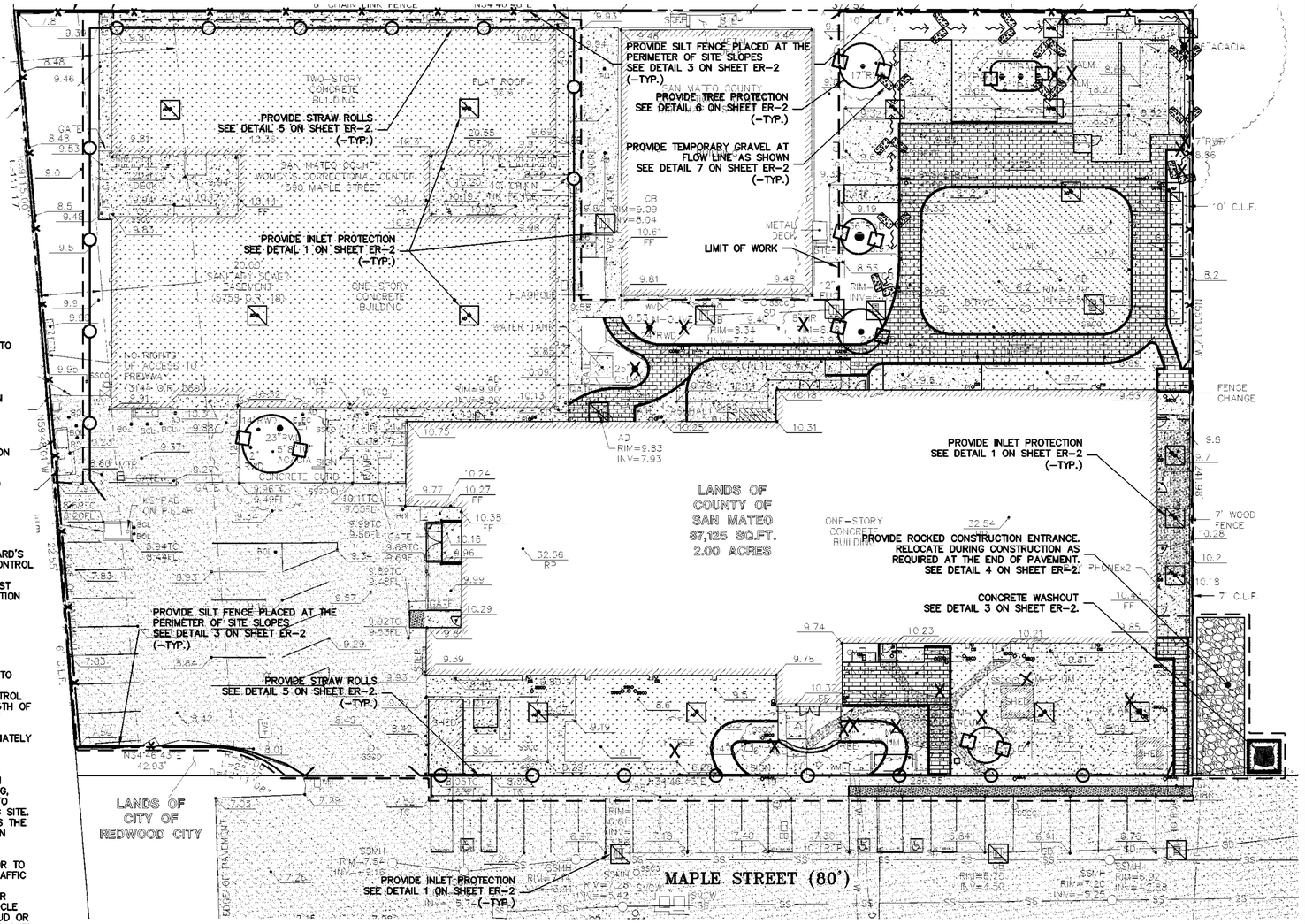
JOB NO: 2151287
DATE: 06-17-16
SCALE: NTS
DESIGN BY: MH
DRAWN BY: WM
SHEET NO:
C-6.1

EROSION CONTROL NOTES:

1. IT SHALL BE THE OWNER'S/CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CONTROL OF THE ENTIRE CONSTRUCTION OPERATION AND TO KEEP THE ENTIRE SITE IN COMPLIANCE WITH THIS EROSION CONTROL PLAN.
2. THE INTENTION OF THIS PLAN IS FOR INTERIM EROSION AND SEDIMENT CONTROL ONLY. ALL EROSION CONTROL MEASURES SHALL CONFORM TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD'S FIELD MANUAL FOR EROSION AND SEDIMENTATION CONTROL, THE CALIFORNIA STORM WATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICES HANDBOOK FOR CONSTRUCTION, AND THE LOCAL GOVERNING AGENCY FOR THIS PROJECT.
3. OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO, DURING, AND AFTER STORM EVENTS. PERSON IN CHARGE OF MAINTAINING EROSION CONTROL MEASURES SHOULD WATCH LOCAL WEATHER REPORTS AND ACT APPROPRIATELY TO MAKE SURE ALL NECESSARY MEASURES ARE IN PLACE.
4. SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
5. DURING THE RAINY SEASON, ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT–LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEM, INCLUDING EXISTING DRAINAGE SWALES AND WATERCOURSES.
6. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION WILL BE MINIMIZED. COMPLIANCE WITH FEDERAL, STATE AND LOCAL LAWS CONCERNING POLLUTION SHALL BE MAINTAINED AT ALL TIMES.
7. CONTRACTOR SHALL PROVIDE DUST CONTROL AS REQUIRED BY THE APPROPRIATE FEDERAL, STATE AND LOCAL AGENCY REQUIREMENTS.
8. ALL MATERIALS NECESSARY FOR THE APPROVED EROSION CONTROL MEASURES SHALL BE IN PLACE BY OCTOBER 15TH.
9. EROSION CONTROL SYSTEMS SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE RAINY SEASON, OR FROM OCTOBER 15TH THROUGH APRIL 15TH, WHICHEVER IS LONGER.
10. IN THE EVENT OF RAIN, ALL GRADING WORK IS TO CEASE IMMEDIATELY AND THE SITE IS TO BE SEALED IN ACCORDANCE WITH THE APPROVAL EROSION CONTROL MEASURES AND APPROVED EROSION CONTROL PLAN.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND REPAIRING EROSION CONTROL SYSTEMS AFTER EACH STORM.
12. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY LOCAL JURISDICTION'S ENGINEERING DEPARTMENT OR BUILDING OFFICIALS.
13. MEASURES SHALL BE TAKEN TO COLLECT OR CLEAN ANY ACCUMULATION OR DEPOSIT OF DIRT, MUD, SAND, ROCKS, GRAVEL OR DEBRIS ON THE SURFACE OF ANY STREET, ALLEY OR PUBLIC PLACE OR IN ANY PUBLIC STORM DRAIN SYSTEMS. THE REMOVAL OF AFORESAID SHALL BE DONE BY STREET SWEEPING OR HAND SWEEPING. WATER SHALL NOT BE USED TO WASH SEDIMENTS INTO PUBLIC OR PRIVATE DRAINAGE FACILITIES.
14. EROSION CONTROL MEASURES SHALL BE ON–SITE FROM SEPTEMBER 15TH THRU APRIL 15TH.
15. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE RAINY SEASON OR FROM OCTOBER 15 THRU APRIL 15, WHICHEVER IS GREATER.
16. PLANS SHALL BE DESIGNED TO MEET C3 REQUIREMENTS OF THE MUNICIPAL STORMWATER REGIONAL PERMIT("MRP") NPDES PERMIT CAS 612008.
17. THE CONTRACTOR TO NPDES (NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM) BEST MANAGEMENT PRACTICES (BMP) FOR SEDIMENTATION PREVENTION AND EROSION CONTROL TO PREVENT DELETERIOUS MATERIALS OR POLLUTANTS FROM ENTERING THE TOWN OR COUNTY STORM DRAIN SYSTEMS.
18. THE CONTRACTOR MUST INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO THE INCEPTION OF ANY WORK ONSITE AND MAINTAIN THE MEASURES UNTIL THE COMPLETION OF ALL LANDSCAPING.
19. THE CONTRACTOR SHALL MAINTAIN ADJACENT STREETS IN A NEAT, CLEAN DUST FREE AND SANITARY CONDITION AT ALL TIMES AND TO THE SATISFACTION OF THE TOWN INSPECTOR. THE ADJACENT STREET SHALL AT ALL TIMES BE KEPT CLEAN OF DEBRIS, WITH DUST AND OTHER NUISANCE BEING CONTROLLED AT ALL TIMES. THE CONTRACTOR BE RESPONSIBLE FOR ANY CLEAN UP ON ADJACENT STREETS AFFECTED BY THE BY THEIR CONSTRUCTION, METHOD OF STREET CLEANING SHALL BE BY DRY SWEEPING OF ALL PAVED AREAS. NO STOCKPILING OF BUILDING MATERIALS WITHIN THE TOWN RIGHT–OF–WAY.
20. SEDIMENTS AND OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONTRACTOR SHALL INSTALL A STABILIZED CONSTRUCTION ENTRANCE PRIOR TO THE INSPECTION OF ANY WORK ONSITE AND MAINTAIN IT FOR THE DURATION OF THE CONSTRUCTION PROCESS SO AS TO NOT INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC RIGHT–OF–WAY UNTIL THE COMPLETION OF ALL LANDSCAPING.
21. THE CONTRACTOR SHALL PROTECT DOWN SLOPE DRAINAGE COURSES, STREAMS AND STORM DRAINS WITH ROCK FILLED SAND BAGS, TEMPORARY SWALES, SILT FENCES, AND EARTH PERMS IN CONJUNCTION OF ALL LANDSCAPING.
22. STOCKPILED MATERIALS SHALL BE COVERED WITH VISQUEEN OR A TARPAULIN UNTIL THE MATERIAL IS REMOVED FROM THE SITE. ANY REMAINING BARE SOIL THAT EXISTS AFTER THE STOCKPILE HAS BEEN REMOVED SHALL BE COVERED UNTIL A NATURAL GROUND COVER IS ESTABLISHED OR IT IS SEEDED OR PLANTED TO PROVIDE GROUND COVER PRIOR TO THE FALL RAINY SEASON.
23. EXCESS OR WASTE CONCRETE MUST NOT BE WASHED INTO THE PUBLIC RIGHT–OF–WAYOR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
24. TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION AND DISPERSAL BY WIND FUELS, OILS, SOLVENTS AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MUST NOT BE WASHED INTO THE DRAINAGE SYSTEM,
25. DUST CONTROL SHALL BE DONE BY WATERING AND AS OFTEN AS REQUIRED BY THE TOWN INSPECTOR.
26. SILT FENCE(S) AND/OR FIBER ROLL(S) SHALL BE INSTALLED PRIOR TO SEPTEMBER 15TH AND SHALL REMAIN IN PLACE UNTIL THE LANDSCAPING GROUND COVER IS INSTALLED. CONTRACTOR SHALL CONTINUOUSLY MONITOR THESE MEASURES, FOLLOWING AND DURING ALL RAIN EVENTS,TO PUBLIC OWNED FACILITIES.

0 10 20 40

SCALE: 1" = 20'



PURPOSE:

THE PURPOSE OF THIS PLAN IS TO STABILIZE THE SITE TO PREVENT EROSION OF GRADED AREAS AND TO PREVENT SEDIMENTATION FROM LEAVING THE CONSTRUCTION AREA AND AFFECTING NEIGHBORING SITES, NATURAL AREAS, PUBLIC FACILITIES OR ANY OTHER AREA THAT MIGHT BE AFFECTED BY SEDIMENTATION. ALL MEASURES SHOWN ON THIS PLAN SHOULD BE CONSIDERED THE MINIMUM REQUIREMENTS NECESSARY. SHOULD FIELD CONDITIONS DICTATE ADDITIONAL MEASURES, SUCH MEASURES SHALL BE PER CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD'S FIELD MANUAL FOR EROSION AND SEDIMENTATION CONTROL AND THE CALIFORNIA STORM WATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICES HANDBOOK FOR CONSTRUCTION. LEA & BRAZE ENGINEERING SHOULD BE NOTIFIED IMMEDIATELY SHOULD CONDITIONS CHANGE.

REFERENCES:

1. CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD'S FIELD MANUAL FOR EROSION AND SEDIMENTATION CONTROL
2. CALIFORNIA STORM WATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICES HANDBOOK FOR CONSTRUCTION

EROSION CONTROL MEASURES:

1. THE FACILITIES SHOWN ON THIS PLAN ARE DESIGNED TO CONTROL EROSION AND SEDIMENT DURING THE RAINY SEASON, OCTOBER 15TH TO APRIL 15. EROSION CONTROL FACILITIES SHALL BE IN PLACE PRIOR TO OCTOBER 15TH OF ANY YEAR. GRADING OPERATIONS DURING THE RAINY SEASON WHICH LEAVE DENUDED SLOPES SHALL BE PROTECTED WITH EROSION CONTROL MEASURES IMMEDIATELY FOLLOWING GRADING ON THE SLOPES.
2. SITE CONDITIONS AT TIME OF PLACEMENT OF EROSION CONTROL MEASURES WILL VARY. APPROPRIATE ACTION INCLUDING TEMPORARY SWALES, INLETS, HYDROSEEDING, STRAW BALES, ROCK SACKS, ETC. SHALL BE TAKEN TO PREVENT EROSION AND SEDIMENTATION FROM LEAVING SITE. EROSION CONTROL MEASURES SHALL BE ADJUSTED AS THE CONDITIONS CHANGE AND THE NEED OF CONSTRUCTION SHIFT.
3. CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF GRADING. ALL CONSTRUCTION TRAFFIC ENTERING ONTO THE PAVED ROADS MUST CROSS THE STABILIZED CONSTRUCTION ENTRANCES. CONTRACTOR SHALL MAINTAIN STABILIZED ENTRANCE AT EACH VEHICLE ACCESS POINT TO EXISTING PAVED STREETS. ANY MUD OR DEBRIS TRACKED ONTO PUBLIC STREETS SHALL BE REMOVED DAILY AND AS REQUIRED BY THE GOVERNING AGENCY.
4. ALL EXPOSED SLOPES THAT ARE NOT VEGETATED SHALL BE HYDROSEEDED. IF HYDROSEEDING IS NOT USED OR IS NOT EFFECTIVE BY OCTOBER 15, THEN OTHER IMMEDIATE METHODS SHALL BE IMPLEMENTED, SUCH AS EROSION CONTROL BLANKETS, OR A THREE–STEP APPLICATION OF 1) SEED, MULCH, FERTILIZER 2) BLOWN STRAW 3) TACKIFIER AND MULCH. HYDROSEEDING SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF SECTION 20" EROSION CONTROL AND HIGHWAY PLANTING" OF THE STANDARD SPECIFICATION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, AS LAST REVISED. REFER TO THE EROSION CONTROL SECTION OF THE GRADING SPECIFICATIONS THAT ARE A PART OF THIS PLAN SET FOR FURTHER INFORMATION.
5. INLET PROTECTION SHALL BE INSTALLED AT OPEN INLETS TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM. INLETS NOT USED IN CONJUNCTION WITH EROSION CONTROL ARE TO BE BLOCKED TO PREVENT ENTRY OF SEDIMENT. MINIMUM INLET PROTECTION SHALL CONSIST OF A ROCK SACKS OR AS SHOWN ON THIS PLAN
6. THIS EROSION AND SEDIMENT CONTROL PLAN MAY NOT COVER ALL THE SITUATIONS THAT MAY ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS AND ADDITIONS MAY BE MADE TO THIS PLAN IN THE FIELD. A REPRESENTATIVE OF LEA & BRAZE ENGINEERING SHALL PERFORM A FIELD REVIEW AND MAKE RECOMMENDATIONS AS NEEDED. CONTRACTOR IS RESPONSIBLE TO NOTIFY LEA & BRAZE ENGINEERING AND THE GOVERNING AGENCY OF ANY CHANGES.
7. THE EROSION CONTROL MEASURES SHALL CONFORM TO THE LOCAL JURISDICTION'S STANDARDS AND THE APPROVAL OF THE LOCAL JURISDICTION'S ENGINEERING DEPARTMENT.
8. STRAW ROLLS SHALL BE PLACED AT THE TOE OF SLOPES AND ALONG THE DOWN SLOPE PERIMETER OF THE PROJECT. THEY SHALL BE PLACED AT 25 FOOT INTERVALS ON GRADED SLOPES. PLACEMENT SHALL RUN WITH THE CONTOURS AND ROLLS SHALL BE TIGHTLY END BUTTED. CONTRACTOR SHALL REFER TO MANUFACTURES SPECIFICATIONS FOR PLACEMENT AND INSTALLATION INSTRUCTIONS.

PERIODIC MAINTENANCE:

1. MAINTENANCE IS TO BE PERFORMED AS FOLLOWS:
   - A. DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION SHALL BE REPAIRED AT THE END OF EACH WORKING DAY.
   - B. SWALES SHALL BE INSPECTED PERIODICALLY AND MAINTAINED AS NEEDED.
   - C. SEDIMENT TRAPS, BERMS, AND SWALES ARE TO BE INSPECTED AFTER EACH STORM AND REPAIRS MADE AS NEEDED.
   - D. SEDIMENT SHALL BE REMOVED AND SEDIMENT TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO A DEPTH OF 1' FOOT.
   - E. SEDIMENT REMOVED FROM TRAP SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
   - F. RILLS AND GULLIES MUST BE REPAIRED.
2. GRAVEL BAG INLET PROTECTION SHALL BE CLEANED OUT WHENEVER SEDIMENT DEPTH IS ONE HALF THE HEIGHT OF ONE GRAVEL BAG.
3. STRAW ROLLS SHALL BE PERIODICALLY CHECKED TO ASSURE PROPER FUNCTION AND CLEANED OUT WHENEVER THE SEDIMENT DEPTH REACHED HALF THE HEIGHT OF THE ROLL.
4. SILT FENCE SHALL BE PERIODICALLY CHECKED TO ASSURE PROPER FUNCTION AND CLEANED OUT WHENEVER THE SEDIMENT DEPTH REACHES ONE FOOT IN HEIGHT.
5. CONSTRUCTION ENTRANCE SHALL BE REGRAVELED AS NECESSARY FOLLOWING SILT/SOIL BUILDUP.
6. ANY OTHER EROSION CONTROL MEASURES SHOULD BE CHECKED AT REGULAR INTERVALS TO ASSURE PROPER FUNCTION

EROSION CONTROL LEGEND

- GRAVEL BAG
- INLET PROTECTION
- STRAW ROLL
- SILT FENCE
- CONCRETE WASHOUT
- CONSTRUCTION ENTRANCE
- TREE PROTECTION
- LIMITS OF WORK

NOTE:
SEAL ALL OTHER INLETS NOT INTENDED TO ACCEPT STORM WATER AND DIRECT FLOWS TEMPORARILY TO FUNCTIONAL SEDIMENTATION BASIN INLETS. –TYP

REGISTERED PROFESSIONAL ENGINEER JAMES TOBY No. 63127 CIVIL STATE OF CALIFORNIA ORIGINAL SIGNATURES IN BLUE INK

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IMPROVEMENT PLANS
LIFEMOVES MAPLE STREET SHELTER
1580 MAPLE STREET
APN: 052–532–020
SAN MATEO COUNTY

EROSION CONTROL PLAN

REVISIONS	BY
1 COUNTY COMMENTS 08–19–16	MH
2 PC#2/ADD#6 09–23–16	MH
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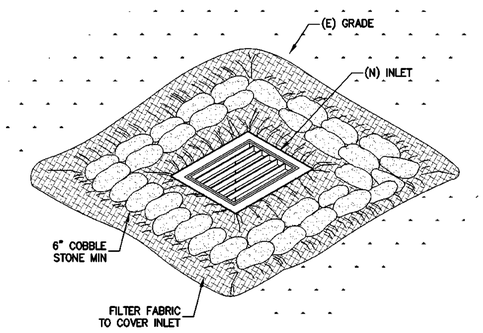
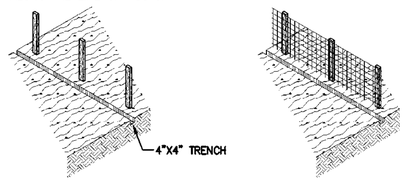
JOB NO:	2151287
DATE:	06–17–16
SCALE:	AS NOTED
DESIGN BY:	MH
DRAWN BY:	WM
SHEET NO:	ER–1

13 OF 19 SHEETS

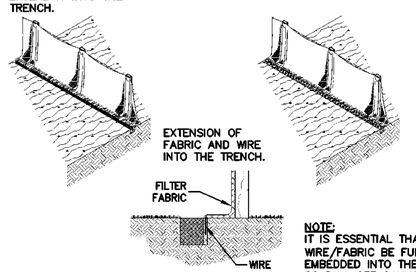


1 ER-2 **INLET PROTECTION**
NTS

1. SET POSTS AND EXCAVATE A 4"X4" TRENCH UP SLOPE ALONG THE LINE OF POSTS.
2. STAPLE WIRE FENCE TO THE POSTS.

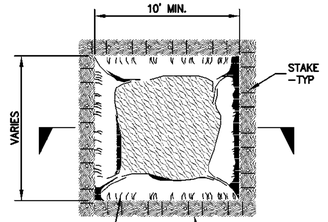


3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.

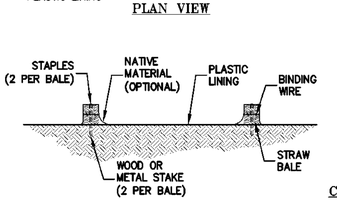


NOTE:
IT IS ESSENTIAL THAT THE WIRE/FABRIC BE FULLY EMBEDDED INTO THE GROUND SO RUN-OFF CANNOT FLOW FREELY UNDER FENCE.

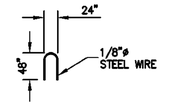
2 ER-2 **SILT FENCE**
NTS



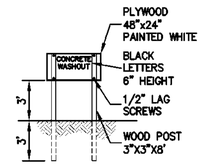
PLAN VIEW



SECTION



STAPLE DETAIL

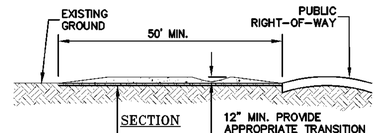


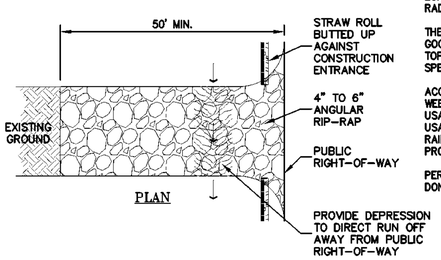
CONCRETE WASHOUT SIGN DETAIL

NOTES:
ACTUAL LAYOUT DETERMINED IN FIELD.

THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 10' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

3 ER-2 **CONCRETE WASHOUT**
NTS





NOTES:

STABILIZED CONSTRUCTION SITE ACCESS SHALL BE CONSTRUCTED OF 3" TO 4" WASHED, FRACTURED STONE AGGREGATE.

MATERIAL SHALL BE PLACED TO A MINIMUM THICKNESS OF 12". LENGTH OF ENTRANCE SHALL BE A MINIMUM OF 50'.

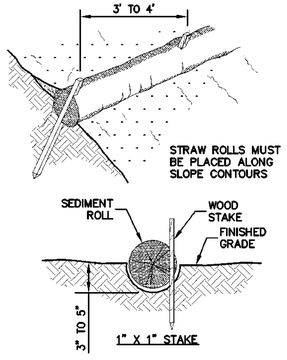
WIDTH SHALL BE A MIN. OF 15' OR GREATER IF NECESSARY TO COVER ALL VEHICULAR INGRESS AND EGRESS. PROVIDE AMPLE TURNING RADII.

THE ENTRANCE SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSING WITH MATERIAL AS SPECIFIED IN ABOVE NOTE.

ACCESSES SHALL BE INSPECTED WEEKLY DURING PERIODS OF HEAVY USAGE, MONTHLY DURING NORMAL USAGE, AND AFTER EACH RAINFALL WITH MAINTENANCE PROVIDED AS NECESSARY.

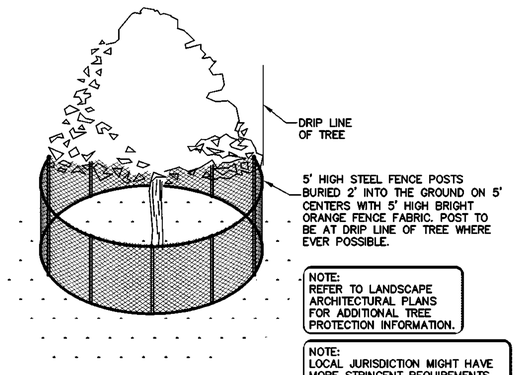
PERIODIC TOP DRESSING SHALL BE DONE AS NEEDED.

4 ER-2 **CONSTRUCTION ENTRANCE**
NTS



NOTE:
1. STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3" TO 5" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.
2. CONTRACTOR IS RESPONSIBLE FOR REGULAR MAINTENANCE AND INSPECTION. THE SILT SHALL BE CLEANED OUT WHEN IT REACHES HALF THE HEIGHT OF THE ROLL.

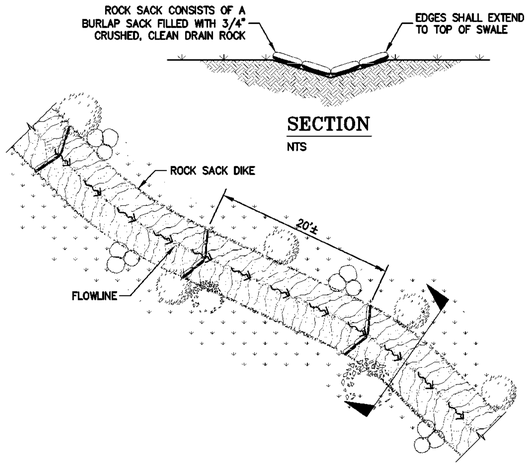
5 ER-2 **STRAW ROLLS FLAT LOT**
NTS



NOTE:
REFER TO LANDSCAPE ARCHITECTURAL PLANS FOR ADDITIONAL TREE PROTECTION INFORMATION.

NOTE:
LOCAL JURISDICTION MIGHT HAVE MORE STRINGENT REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING W/ INSPECTOR TO ENSURE PROPER PROCEDURES ARE BEING FOLLOWED.

6 ER-2 **EXISTING TREE PROTECTION DETAIL**
NTS



7 ER-2 **ROCK SACK DIKE IN SWALE**
NTS

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REGISTERED PROFESSIONAL ENGINEER
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ORIGINAL SIGNATURES IN BLUE INK

IMPROVEMENT PLANS
LIFEMOVES MAPLE STREET SHELTER
1580 MAPLE STREET
SAN MATEO COUNTY
APN: 052-532-020

EROSION CONTROL DETAILS

1	COUNTY COMMENTS 08-19-16	MH
2	PC#2/ADD#6 09-23-16	MH
–		–
–		–
–		–
REVISIONS		BY

JOB NO:	2151287
DATE:	06-17-16
SCALE:	NTS
DESIGN BY:	MH
DRAWN BY:	WM
SHEET NO:	

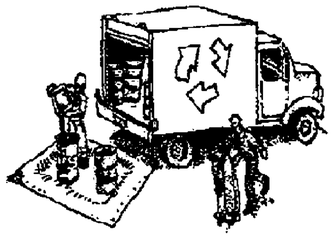
ER-2

SAN MATEO COUNTYWIDE
Water Pollution Prevention Program
Clean Water. Healthy Community.

Construction Best Management Practices (BMPs)

Construction projects are required to implement the stormwater best management practices (BMP) on this page, as they apply to your project, all year long.

Materials & Waste Management



Non-Hazardous Materials

- ❑ Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or if not actively being used within 14 days.
- ❑ Use (but don't overuse) reclaimed water for dust control.

Hazardous Materials

- ❑ Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state and federal regulations.
- ❑ Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecast.
- ❑ Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- ❑ Arrange for appropriate disposal of all hazardous wastes.

Waste Management

- ❑ Cover waste disposal containers securely with tarps at the end of every work day and during wet weather.
- ❑ Check waste disposal containers frequently for leaks and to make sure they are not overfilled. Never hose down a dumpster on the construction site.
- ❑ Clean or replace portable toilets, and inspect them frequently for leaks and spills.
- ❑ Dispose of all wastes and debris properly. Recycle materials and wastes that can be recycled (such as asphalt, concrete, aggregate base materials, wood, gyp board, pipe, etc.)
- ❑ Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.

Construction Entrances and Perimeter

- ❑ Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- ❑ Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking. Never hose down streets to clean up tracking.

Equipment Management & Spill Control

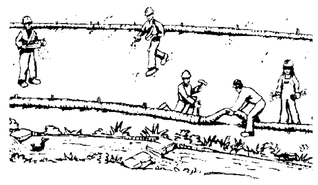
Maintenance and Parking

- ❑ Designate an area, fitted with appropriate BMPs, for vehicle and equipment parking and storage.
- ❑ Perform major maintenance, repair jobs, and vehicle and equipment washing off site.
- ❑ If refueling or vehicle maintenance must be done onsite, work in a bermed area away from storm drains and over a drip pan or drop cloths big enough to collect fluids. Recycle or dispose of fluids as hazardous waste.
- ❑ If vehicle or equipment cleaning must be done onsite, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or surface waters.
- ❑ Do not clean vehicle or equipment onsite using soaps, solvents, degreasers, or steam cleaning equipment.

Spill Prevention and Control

- ❑ Keep spill cleanup materials (e.g., rags, absorbents and cat litter) available at the construction site at all times.
- ❑ Inspect vehicles and equipment frequently for and repair leaks promptly. Use drip pans to catch leaks until repairs are made.
- ❑ Clean up spills or leaks immediately and dispose of cleanup materials properly.
- ❑ Do not hose down surfaces where fluids have spilled. Use dry cleanup methods (absorbent materials, cat litter, and/or rags).
- ❑ Sweep up spilled dry materials immediately. Do not try to wash them away with water, or bury them.
- ❑ Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- ❑ Report significant spills immediately. You are required by law to report all significant releases of hazardous materials, including oil. To report a spill: 1) Dial 911 or your local emergency response number, 2) Call the Governor's Office of Emergency Services Warning Center, (800) 852-7550 (24 hours).

Earthmoving



- ❑ Schedule grading and excavation work during dry weather.
- ❑ Stabilize all denuded areas, install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- ❑ Remove existing vegetation only when absolutely necessary, and seed or plant vegetation for erosion control on slopes or where construction is not immediately planned.
- ❑ Prevent sediment from migrating offsite and protect storm drain inlets, gutters, ditches, and drainage courses by installing and maintaining appropriate BMPs, such as fiber rolls, silt fences, sediment basins, gravel bags, berms, etc.
- ❑ Keep excavated soil on site and transfer it to dump trucks on site, not in the streets.

Contaminated Soils

- ❑ If any of the following conditions are observed, test for contamination and contact the Regional Water Quality Control Board:
  - Unusual soil conditions, discoloration, or odor.
  - Abandoned underground tanks.
  - Abandoned wells
  - Buried barrels, debris, or trash.

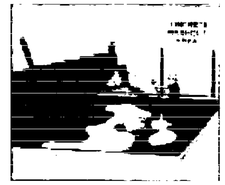
Paving/Asphalt Work

- ❑ Avoid paving and seal coating in wet weather or when rain is forecast, to prevent materials that have not cured from contacting stormwater runoff.
- ❑ Cover storm drain inlets and manholes when applying seal coat, tack coat, slurry seal, fog seal, etc.
- ❑ Collect and recycle or appropriately dispose of excess abrasive gravel or sand. Do NOT sweep or wash it into gutters.
- ❑ Do not use water to wash down fresh asphalt concrete pavement.

Sawcutting & Asphalt/Concrete Removal

- ❑ Protect nearby storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or gravel bags to keep slurry out of the storm drain system.
- ❑ Shovel, absorb, or vacuum saw-cut slurry and dispose of all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- ❑ If sawcut slurry enters a catch basin, clean it up immediately.

Concrete, Grout & Mortar Application

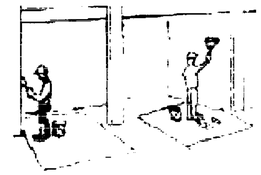


- ❑ Store concrete, grout, and mortar away from storm drains or waterways, and on pallets under cover to protect them from rain, runoff, and wind.
- ❑ Wash out concrete equipment/trucks offsite or in a designated washout area, where the water will flow into a temporary waste pit, and in a manner that will prevent leaching into the underlying soil or onto surrounding areas. Let concrete harden and dispose of as garbage.
- ❑ When washing exposed aggregate, prevent washwater from entering storm drains. Block any inlets and vacuum gutters, hose washwater onto dirt areas, or drain onto a bermed surface to be pumped and disposed of properly.

Landscaping

- ❑ Protect stockpiled landscaping materials from wind and rain by storing them under tarps all year-round.
- ❑ Stack bagged material on pallets and under cover.
- ❑ Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet weather.

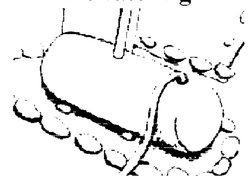
Painting & Paint Removal



Painting Cleanup and Removal

- ❑ Never clean brushes or rinse paint containers into a street, gutter, storm drain, or stream.
- ❑ For water-based paints, paint out brushes to the extent possible, and rinse into a drain that goes to the sanitary sewer. Never pour paint down a storm drain.
- ❑ For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of excess liquids as hazardous waste.
- ❑ Paint chips and dust from non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash.
- ❑ Chemical paint stripping residue and chips and dust from marine paints or paints containing lead, mercury, or tributyltin must be disposed of as hazardous waste. Lead based paint removal requires a state-certified contractor.

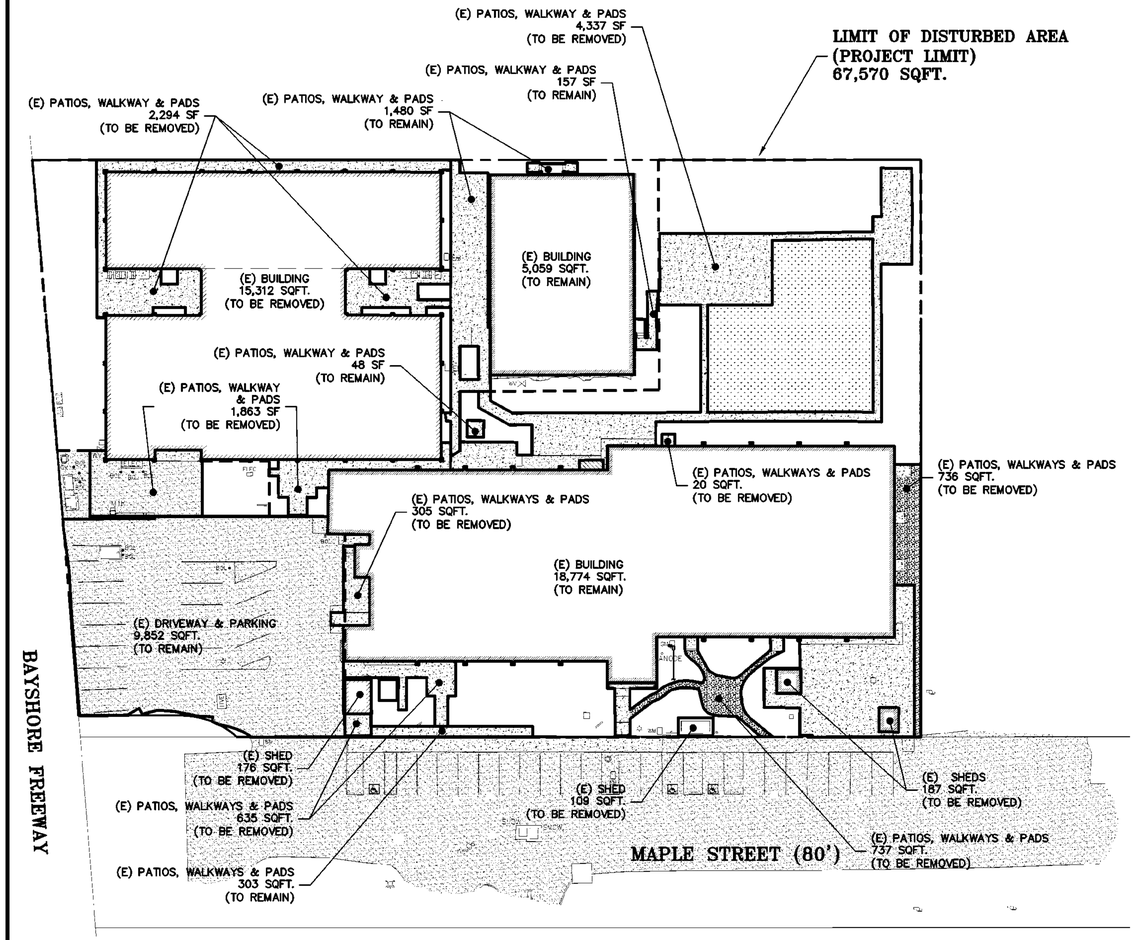
Dewatering



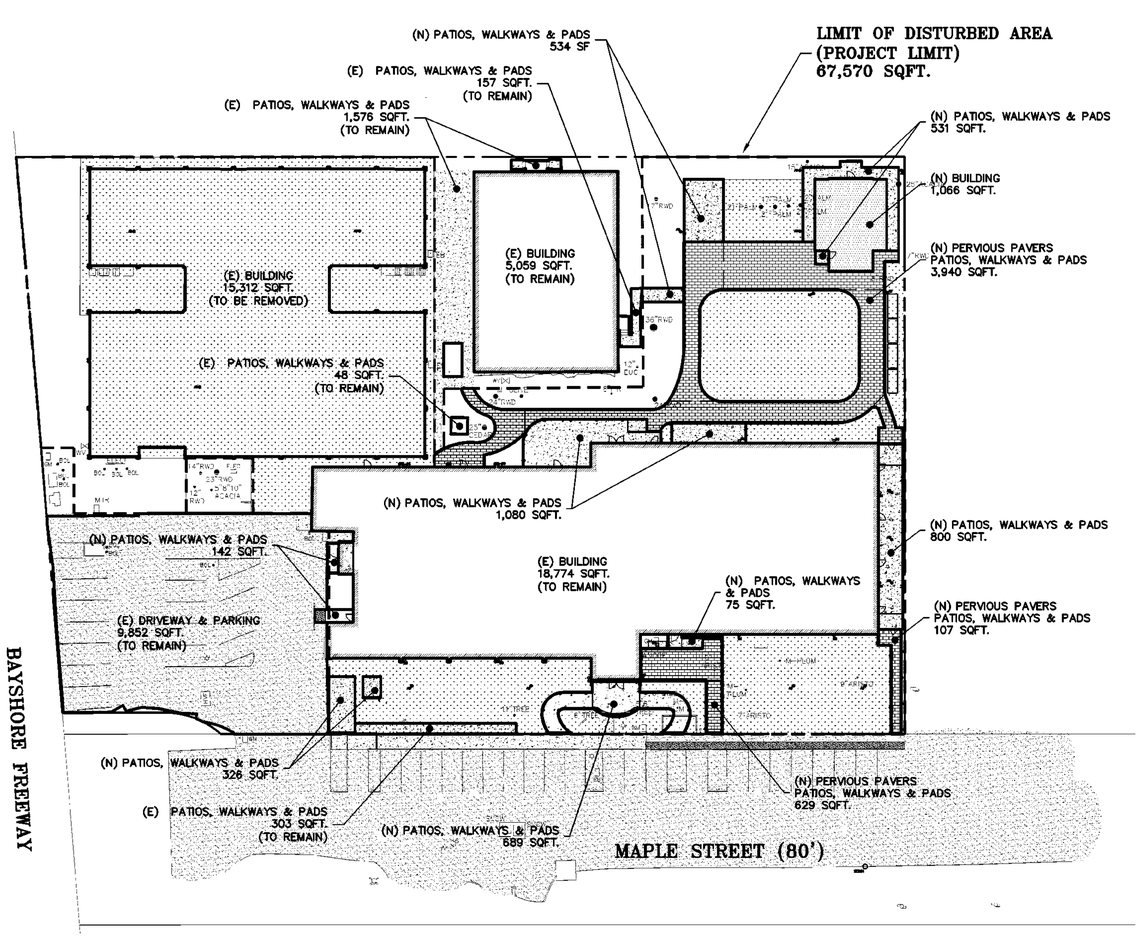
- ❑ Discharges of groundwater or captured runoff from dewatering operations must be properly managed and disposed. When possible send dewatering discharge to landscaped area or sanitary sewer. If discharging to the sanitary sewer call your local wastewater treatment plant.
- ❑ Divert run-on water from offsite away from all disturbed areas.
- ❑ When dewatering, notify and obtain approval from the local municipality before discharging water to a street gutter or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- ❑ In areas of known or suspected contamination, call your local agency to determine whether the ground water must be tested. Pumped groundwater may need to be collected and hauled off-site for treatment and proper disposal.

Storm drain polluters may be liable for fines of up to $10,000 per day!

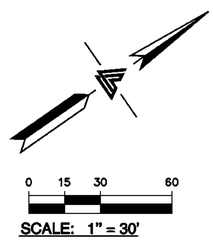
STORM WATER POLLUTION PREVENTION PLAN



EXISTING SITE



PROPOSED SITE



LEGEND

- GRAVEL
- CONCRETE
- PERVIOUS PAVERS
- GRASS
- DETECTABLE WARNING SURFACE
- FLUSH CURB
- PROJECT LIMIT

DEVELOPMENT INFORMATION

TOTAL SITE AREA	**87,179 SQUARE FEET (2.00 ACRES)**			
TOTAL DISTURBED AREA (PROJECT LIMIT)	**25,650 SQUARE FEET (0.59 ACRE)**			
IMPERVIOUS SURFACES	**EXISTING TOTAL S.F.**	**REMOVED TOTAL S.F.**	**NEW TOTAL S.F.**	**PROPOSED TOTAL S.F.**
BUILDINGS	39,145	15,312	1,066	24,899
SHEDS	472	472	0	0
DRIVEWAY & PARKING	9,852	0	0	9,852
IMPERVIOUS PATIOS, WALKWAYS & PADS	12,915	10,927	4,177	6,165
TOTAL IMPERVIOUS AREA	62,384	26,711	**5,243**	**40,916**
NET CHANGE IN IMPERVIOUS AREA	**-21,468 SQUARE FEET (NET DECREASE)**			
PERVIOUS SURFACES				
PERVIOUS PAVER PATIOS, WALKWAYS & PADS	0	0	4,676	4,676
TOTAL DEVELOPED AREA	62,384	26,711	**9,919**	**45,592**
NET CHANGE IN DEVELOPED AREA	**-16,792 SQUARE FEET (NET DECREASE)**			
FLOOR AREA	REFER TO THE ARCHITECTURAL PLANS FOR PROPOSED FLOOR AREA CALCULATIONS			

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IMPROVEMENT PLANS
LIFEMOVES MAPLE STREET SHELTER
1580 MAPLE STREET
SAN MATEO COUNTY

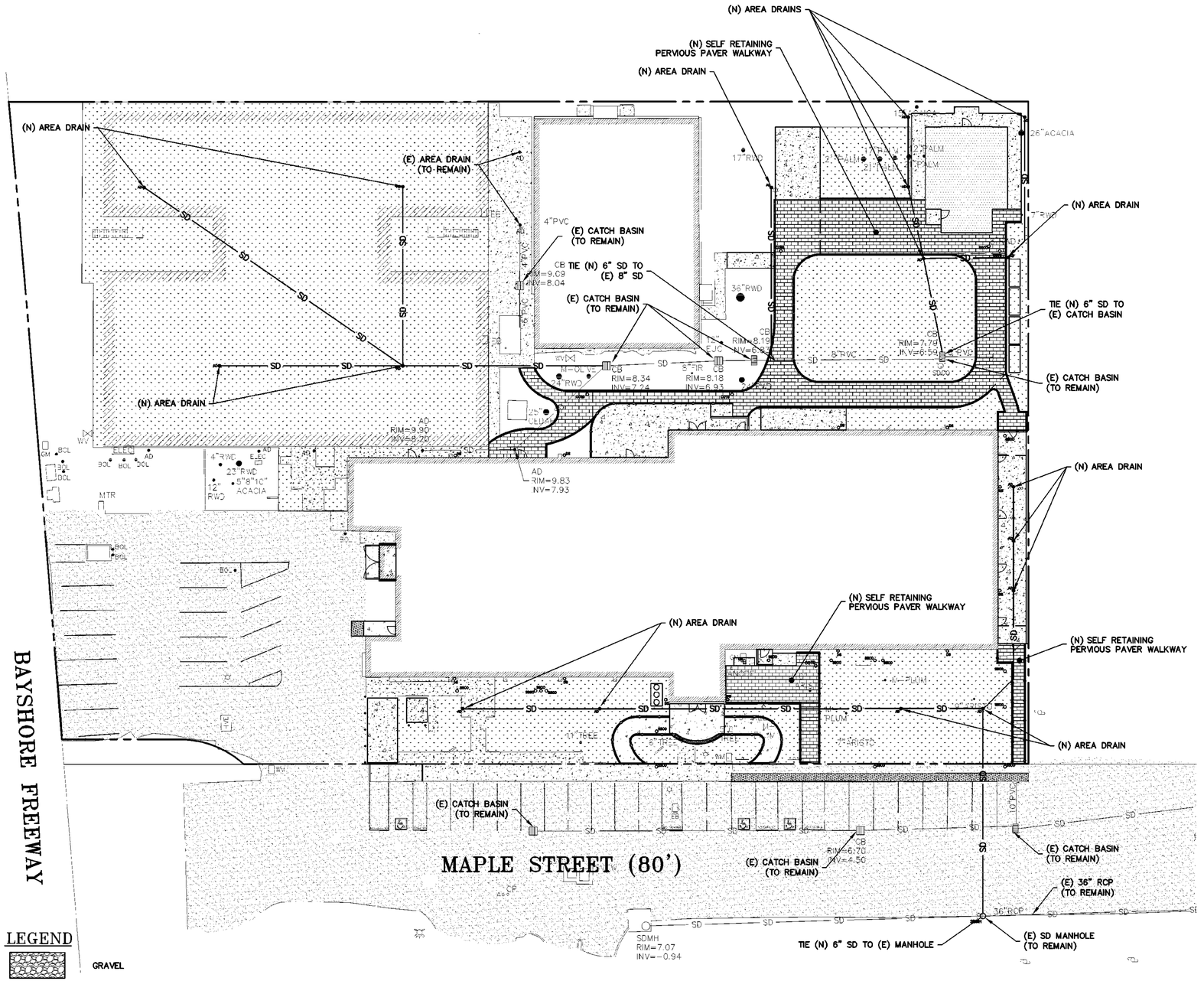
APN: 052-532-020

IMPERVIOUS SURFACE EXHIBIT

1	COUNTY COMMENTS 08-19-16	MH
2	PC#2/ADD#6 09-23-16	MH
–		–
–		–
–		–
	REVISIONS	BY

JOB NO:	2151287
DATE:	06-17-16
SCALE:	1"=30'
DESIGN BY:	MH
DRAWN BY:	WM
SHEET NO:	HYD-1

17 OF 19 SHEETS



C.3 and C.6 Development Review Checklist

I.B Is the project a "C.3 Regulated Project" per MRP Provision C.3.b?

I.B.1 Enter the amount of impervious surface[5] Retained, Replaced and/or Created by the project:

Table I.B.1 Impervious[5] and Pervious Surfaces

Type of Impervious[5] Surface	I.B.1.a Pre-Project Impervious[5] Surface (sq.ft.)	I.B.1.b Existing Impervious[5] Surface to be Retained[7] (sq.ft.)	I.B.1.c Existing Impervious[5] Surface to be Replaced[7] (sq.ft.)	I.B.1.d New Impervious[5] Surface to be Created[7] (sq.ft.)	I.B.1.e Post-Project Impervious[5] Surface (sq.ft.) (=b+c+d)
Roof area(s)	39,617	23,833	1,066	0	24,899
Impervious[5] sidewalks, patios, paths, driveways, streets	22,767	11,840	4,177	0	16,017
Impervious[5] uncovered parking[7]	0	0	0	0	0
Totals of Impervious Surfaces:	62,384	35,673	5,243	0	40,916

I.B.1.f - Total Impervious[5] Surface Replaced and Created *(sum of totals for columns I.B.1.c and I.B.1.d)*: 5,243

Type of Pervious Surface	Pre-Project Pervious Surface (sq.ft.)		Post project Pervious Surface (sq.ft.)
Landscaping	24,795		41,587
Pervious Paving	0	I.B.1.e.1:	4,676
Green Roof	0		0
Totals of Pervious Surfaces:	24,795		46,263
Total Site Area (Total Impervious[5]+Total Pervious=I.A.2)	87,179		87,179

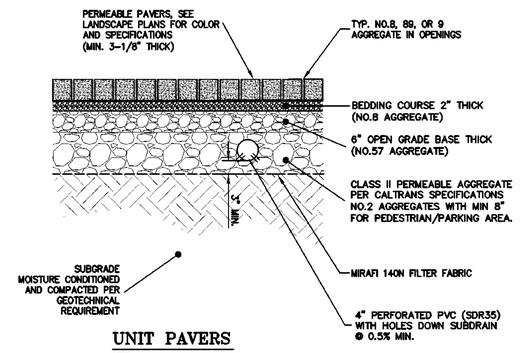
I.B.2 **Please review and attach additional worksheets as required below using the Total Impervious Surface (IS) Replaced and Created in cell I.B.1.f from Table I.B.1 above and other factors:**

	Check all that apply:	Check One Yes	Check One No	Attach Worksheet
I.B.2.a	Does this project involve any earthwork? If YES, then Check Yes, and Complete Worksheet A If NO, then go to I.B.2.b	☒	☐	A
I.B.2.b	Is I.B.1.f greater than or equal to 2,500 sq.ft? If YES, then the Project is subject to Provision C.3.i, - complete Worksheets B, C & go to I.B.2.c. If NO, then Stop here - go to I.A.5 and complete Certification or ask municipal staff for Small Project Checklist.	☒	☐	B, C
I.B.2.c	Is the total Existing IS to be Replaced (column I.B.1.c) 50 percent or more of the total Pre-Project IS (column I.B.1.a)? If YES, site design, source control and treatment requirements apply to the whole site. Continue to I.B.2.d If NO, these requirements apply only to the impervious surface created and/or replaced. Continue to I.B.2.d	☐	☒	
I.B.2.d	Is this project a Special Land Use Category (I.A.1) and is I.B.1.f greater than or equal to 5,000 sq.ft? If YES, project is a Regulated Project. Fill out Worksheet D. Go to I.B.2.f. If NO, go to I.B.2.e	☐	☒	D
I.B.2.e	Is I.B.1.f greater than or equal to 10,000 sq.ft? If YES, project is a C.3 Regulated Project - complete Worksheet D. Then continue to I.B.2.f. If NO, then skip to I.B.2.g.	☐	☒	D
I.B.2.f	Is I.B.1.f greater than or equal to 43,560 sq.ft? If YES, project may be subject to Hydromodification Management requirements - complete Worksheet E then continue to I.B.2.g. If NO, then go to I.B.2.g.	☐	☒	E
I.B.2.g	Is I.A.3 greater than or equal to 1 acre? If YES, check box, obtain coverage under the CA Const. General Permit & submit Notice of Intent to municipality - go to I.B.2.h. If NO, then go to I.B.2.h. For more information see: www.swrcb.ca.gov/water_issues/programs/stormwater/constpermits.shtml	☒	☐	
I.B.2.h	Is this a Special Project or does it have the potential to be a Special Project? If YES, complete Worksheet F - then continue to I.B.2.i. If NO, go to I.B.2.i.	☐	☒	F
I.B.2.i	Is project a High Priority Site? (Determined by the Municipality. High Priority Sites can include those located in or within 100 feet of a sensitive habitat, an Area of Special Biological Significance, a body of water, or **starting 7/1/16 on sites disturbing >=5,000** ft² with slopes >=15% (see I.A.4.) (or per municipal criteria/map) and are subject to monthly inspections from Oct 1 to April 30.) If YES, complete section G-2 on Worksheet G - then continue to I.B.2.j. If NO, then go to I.B.2.j.	☐	☒	G
I.B.2.j	For Municipal Staff Use Only: Are you using Alternative Certification for the project review? If YES, then fill out section G-1 on Worksheet G. Fill out other sections of Worksheet G as appropriate. See cell I.B.1.e.1 above - Is the project installing 3,000 square feet or more of pervious paving? If YES, then fill out section G-3 on Worksheet G. Add to Municipal Inspection Lists (C.3.h)	☐ ☐	☐ ☐	G

[5] Per the MRP, pavement that meets the following definition of pervious pavement is NOT an impervious surface. Pervious pavement is defined as pavement that stores and infiltrates rainfall at a rate equal to immediately surrounding unpaved, landscaped areas, or that stores and infiltrates the rainfall runoff volume described in Provision C.3.

[6] "Retained" means to leave existing impervious surfaces in place, unchanged; "Replaced" means to install new impervious surface where existing impervious surface is removed anywhere on the same property, and "Created" means the amount of new impervious surface being proposed which exceeds the total existing amount of impervious surface at the property.

[7] Uncovered parking includes the top level of a parking structure.



UNIT PAVERS
NTS

REGISTERED PROFESSIONAL ENGINEER
JAMES TOBY
No. 63127
CIVIL
STATE OF CALIFORNIA
ORIGINAL SIGNATURES IN BLUE INK

LEA & BRAZE ENGINEERING, INC.
CIVIL ENGINEERS • LAND SURVEYORS
BAY AREA REGION
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WWW.LEABRAZE.COM

IMPROVEMENT PLANS
LIFEMOVES MAPLE STREET SHELTER
1580 MAPLE STREET
APN: 052-532-020
SAN MATEO COUNTY

PROPOSED
DRAINAGE EXHIBIT

1	COUNTY COMMENTS 08-19-16	MH
2	PC#2/ADD#6 09-23-16	MH
–		–
–		–
–		–
	REVISIONS	BY

JOB NO:	2151287
DATE:	06-17-16
SCALE:	1"=20'
DESIGN BY:	MH
DRAWN BY:	WM
SHEET NO:	

HYD-2

GENERAL NOTES:

1. INSTALL ALL DUCTWORK AND PIPING TO BEST SUIT FIELD CONDITIONS AND COORDINATE WITH THE INSTALLATION WORK OF OTHER TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED TO DETERMINE THE EXACT LOCATION OF SINGLE LINE DUCTS. CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND CLEARANCES ABOVE CEILING AND SHALL MAKE ADJUSTMENTS TO DUCT SIZES, LAYOUTS, EQUIPMENT LOCATIONS AND OTHERS TO BEST SUIT FIELD CONDITIONS.
2. THIS CONTRACTOR SHALL REFER TO ELECTRICAL CONTRACT DOCUMENTS TO OBTAIN THE INFORMATION OF STARTERS, VOLTAGE, PHASE, INTERLOCKING CONTROLS & MISCELLANEOUS EQUIPMENT SUCH AS RELAYS IN STARTERS, ETC., SO THAT ALL ELECTRICAL EQUIPMENT SHALL FULLY COMPLY WITH ELECTRICAL AND CONTROL REQUIREMENTS.
3. THIS CONTRACTOR WILL PROVIDE THREE COPIES OF OPERATING AND MAINTENANCE INSTRUCTIONS TO THE OWNER (IN VINYL COVER).
4. ACCESS OPENINGS FOR DAMPERS SHALL BE INSTALLED IN DUCTWORK WHEREVER FIRE DAMPERS OCCUR.
5. DUCT SIZES WITH LINING SHOWN ARE NET, CLEAR INSIDE DIMENSIONS.
6. PROVIDE HVAC DUCT INSULATION IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODES.
7. ALL SQUARE ELBOW TURNS IN DUCTWORK SHALL HAVE TURNING VANES.
8. ALL CURBS AND SLEEPERS FOR AC EQUIPMENT, EXHAUST FANS AND CURBED DUCT PENETRATIONS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED. ALL CURBS AND SLEEPERS TO BE INSTALLED LEVEL WITH FINISH FLOOR.
9. FURNISH AND INSTALL NOISE AND VIBRATION ISOLATION DEVICES ON DUCTWORK AND EQUIPMENT.
10. FLEXIBLE DUCT WORK SHALL NOT BE MORE THAN 6 FEET IN LENGTH FOR ANY ONE APPLICATION.
11. EACH SINGLE SYSTEM PROVIDING HEATING OR COOLING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE SHALL BE EQUIPPED WITH SMOKE DETECTORS & AUTOMATIC SHUT–OFFS.
12. THE ENGINEER DOES NOT TAKE RESPONSIBILITY FOR THE COMPLETE ACCURACY OF THESE CONDITIONS SHOWN ON THE PLANS. THE CONTRACTOR, THEREFORE, SHALL MAKE ALLOWANCES IN HIS BID TO PROVIDE A COMPLETE AND OPERABLE SYSTEM WITH THE INTENT AS DESCRIBED BY THESE DRAWINGS AND SPECIFICATIONS – MAKING PROVISIONS FOR FIELD ADJUSTMENTS AS REQUIRED. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO START OF WORK OR PRICING.
13. OPPOSED BLADE DAMPERS ARE NOT PERMITTED AT THE FACE OF THE DIFFUSERS.
14. CONTRACTOR SHALL FIELD VERIFY DUCT CLEARANCES, TAKE FIELD MEASUREMENTS AND PROVIDE SHOP DRAWINGS FOR ENGINEERS REVIEW PRIOR TO START OF WORK AND DUCT FABRICATION. ADJUST DUCT SIZES AND ROUTING TO BEST SUIT FIELD CONDITIONS. ENGINEER DOES NOT TAKE RESPONSIBILITIES FOR THE ACCURACY OF DUCT CLEARANCES.
15. CONTRACTOR SHALL COORDINATE AND FIELD VERIFY EXACT LOCATION OF ALL HVAC EQUIPMENTS PRIOR TO INSTALLATION. INSTALL EQUIPMENT PER MFR'S RECOMMENDATION AND PROVIDE REQUIRED CLEARANCES FOR SERVICING. ADJUST DUCTWORK AND PIPING ACCORDINGLY TO BEST SUIT FIELD CONDITIONS.

KEYED SHEET NOTES:

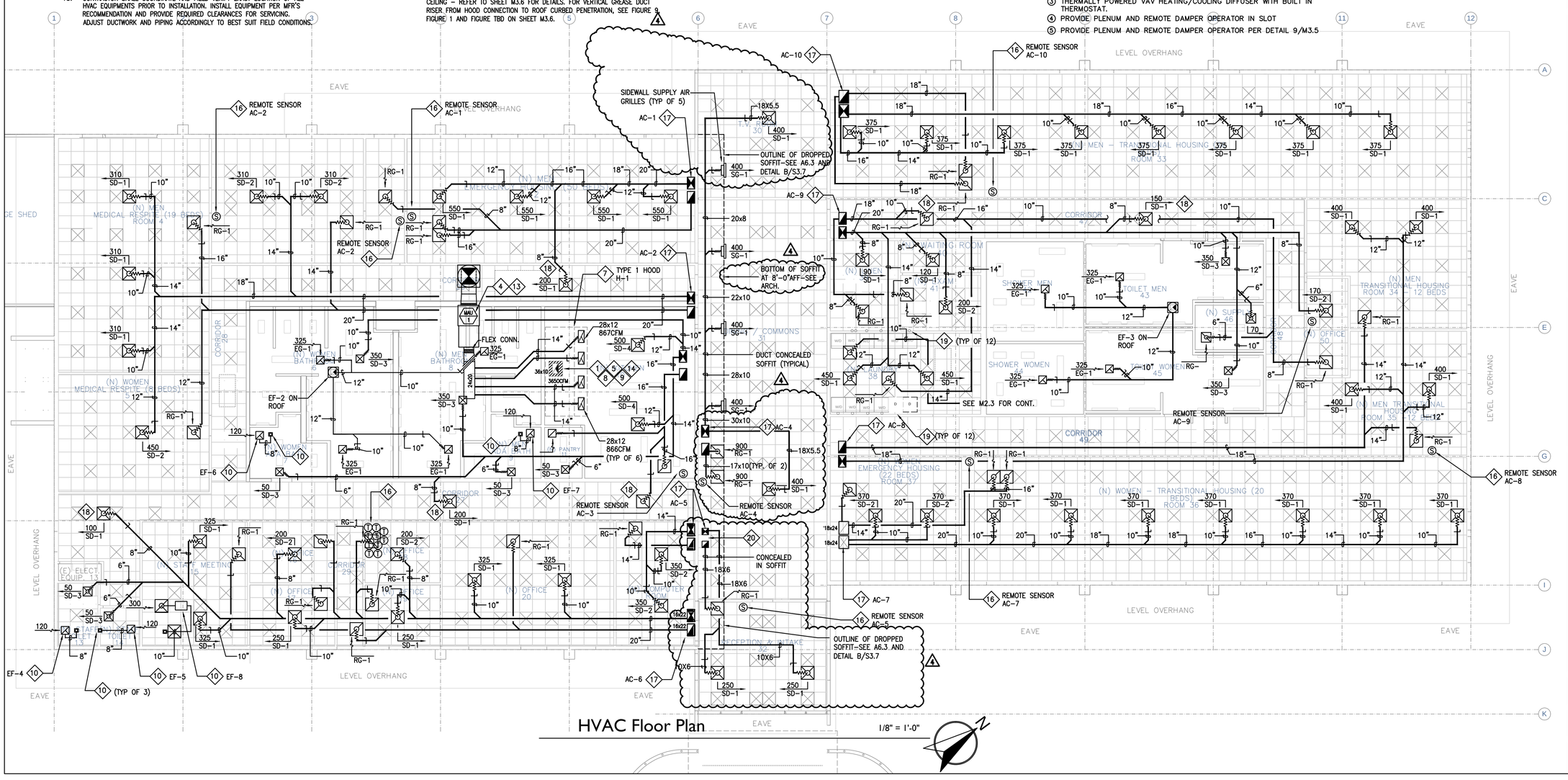
1. ALL GREASE DUCTS SHALL SLOPE AT (2%) ¼ INCH PER FOOT TOWARDS LOWEST POINT AT HOOD CONNECTION. GREASE DUCT SYSTEMS SHALL HAVE CLEANOUTS WITH FIRE RATED ACCESS OPENINGS AND DOORS PER CMC 507.5. LOCATE CLEANOUTS AT EVERY 10 FEET ON STRAIGHT DUCT RUNS, AND AT EACH ELBOW FITTING AND WHERE ANY PORTION OF DUCT HAVING SECTIONS INACCESSIBLE FROM THE DUCT ENTRY OR DISCHARGE. CLEANOUT OPENINGS SHALL BE EQUIPPED WITH TIGHT FITTING DOORS CONSTRUCTED OF STEEL HAVING A THICKNESS NOT LESS THAN THAT REQUIRED FOR THE DUCT, AND EQUIPPED WITH A SUBSTANTIAL METHOD OF LATCHING, SUFFICIENT TO HOLD THE DOOR TIGHTLY CLOSED. DOORS SHALL BE SO DESIGNED THAT THEY CAN BE OPENED WITHOUT THE USE OF A TOOL. ALL GREASE DUCTS , AND THE TOP PORTIONS OF THE TYPE 1 HOODS EXPOSED IN PLENUM, AND CONNECTED SYSTEMS CONCEALED ABOVE CEILINGS SHALL BE WRAPPED IN A 2–HOUR FIRE RATED ENCLOSURE PER CMC 507.6 USING 3M FIRE WRAP , FROM DUCT CONNECTION AT HOOD TO THE DUCT PENETRATION THRU ROOF, UP TO 6 INCHES PAST ROOF LINE. PROVIDE FIRE RESISTIVE OPENINGS PER MANUFACTURER SPECIFICATIONS AND DETAILS AT EACH CLEANOUT POINT. REFER TO DETAILS ON SHEET M3.6. AIR VELOCITY IN GREASE DUCTS SHALL BE MAINTAINED BETWEEN 1500 FPM AND 2500 FPM. GREASE DUCT SHALL BE CONSTRUCTED OF BLACK STEEL MINIMUM 16 GAUGE WITH CONTINUOUS LIQUID TIGHT WELD AT ALL JOINTS AND SEAMS.
2. DUCTS SHALL BE SUPPORTED PER THE MINIMUM REQUIREMENT OF UMC TABLE 6–E AND SHALL BE BRACED AND GUYED TO PREVENT LATERAL OR HORIZONTAL SWING. THE USE OF LATERAL OR HORIZONTAL SEISMIC RESTRAINT GUIDELINES PER "SMACNA" IS ALSO APPLICABLE.
3. INSULATION MATERIALS APPLIED TO THE EXTERIOR OF THE DUCTS LOCATED IN THE BUILDING SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND SMOKE–DENSITY NOT EXCEEDING 50 WHEN TESTED AS A COMPOSITE INSTALLATION.
4. AIR MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2,000 CFM SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF/SMOKE DETECTOR. THE SMOKE DETECTOR SHALL AUTOMATICALLY SHUT–OFF THE POWER SOURCE OF THE AIR–MOVING EQUIPMENT UPON DETECTION OF SMOKE IN THE MAIN SUPPLY–AIR DUCT SERVED BY THE EQUIPMENT.
5. CONTRACTOR SHALL FURNISH AND INSTALL TWO LAYERS OF 3M FIRE BARRIER DUCT WRAP SYSTEM AROUND THE GREASE DUCTS THAT ARE CONCEALED ABOVE THE CEILING – REFER TO SHEET M3.6 FOR DETAILS. FOR VERTICAL GREASE DUCT RISER FROM HOOD CONNECTION TO ROOF CURBED PENETRATION, SEE FIGURE 9, FIGURE 1 AND FIGURE TBD ON SHEET M3.6.
6. MECHANICAL CONTRACTOR SHALL PROVIDE RECTANGULAR TO ROUND DUCT TRANSITIONS/FITTINGS WHERE REQUIRED.
7. INSTALL KITCHEN GREASE EXHAUST HOOD. SUPPORT HOOD PER MANUFACTURER'S INSTRUCTIONS. TRANSITION FROM HOOD CONNECTION TO WELDED KITCHEN EXHAUST DUCT SIZES SHOWN.
8. ALL GREASE DUCT SEAMS, JOINTS AND PENETRATIONS AND DUCT TO DUCT COLLAR CONNECTIONS SHALL HAVE A LIQUIDTIGHT CONTINUOUS EXTERNAL WELD. DUCT COLLAR CONNECTIONS SHALL BE ALLOWED TO BE NON WELDED AS SHOWN ON DETAILS ON SECTION 510.5.2 CMC 2013. BUTT–WELDED CONNECTIONS SHALL NOT BE ALLOWED. RECTANGULAR GREASE DUCT SHALL COMPLY WITH CMC 2013 SECTION 510.5.2.1 – 1/2" FLANGE WITH EDGE WELD OR FILLED WELD IS ALLOWED.
9. PROVIDE METAL SHIELD (COLLAR) AT POINT OF CEILING PENETRATION TO SEAL DUCT. PROVIDE FIRE RATED CEILING MATERIAL A MINIMUM OF 18 INCHES FROM OUTER EDGE OF DUCT AT CEILING PENETRATION.
10. RUN DUCT FROM CEILING EXHAUST FAN UP TO HIGH ROOF WITH ROOF VENT AND CAP. TERMINATE VENT CAP 10 FEET FROM FRESH AIR INTAKES.
11. GENERAL: THE DUCT LAYOUT IS SCHEMATIC IN NATURE AND THE CONTRACTOR SHALL TAKE INTO ACCOUNT ALL EXISTING FIELD CONDITIONS INCLUDING BEAM AND JOIST ELEVATIONS AND CEILING HEIGHT REQUIREMENTS BY ARCHITECT. THE PROJECT WILL INVOLVE SOME TIGHT CEILING CLEARANCE AREAS. THE CONTRACTOR SHALL MAKE ADJSTMENTS TO DUCT LAYOUT AND SIZING TO FIT THE EXISTING RESTRICTIONS, AT NO ADDED COSTS TO OWNER. THE CONTRACTOR SHALL PRODUCE DETAILED SHEET METAL SHOP DRAWINGS FOR ENGINEERS REVIERW BEFORE START OF DUCT FABRICATION.
12. GENERAL: FOR CEILING DIFFUSERS IN SHEETROCK CEILING AREAS, THE CONTRACTOR SHALL PROVIDE A PLASTER TRIM THAT ALLOWS THE CEILING DIFFUSER TO BE LAY–IN STYLE. THE INTENT IS TO ALLOW THE DIFFUSERS TO BE MOVED FROM PLASTER TRIM FRAME FOR ACCESS TO CEILING MANUAL AIR VOLUME/BALANCING DAMPER MOUNTED IN FLEX DUCT CONNECTOR, WITHOUT THE NEED FOR REMOTE DAMPER OPERATORS.
13. PROVIDE DUCT SMOKE DETECTORS AT THE MAIN MAKEUP AIR DUCTS FOR MAU–1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE 120V POWER TO THE MAKEUP AIR UNIT AND SHALL INTERLOCK MAKEUP AIR UNITS AND DUCT SMOKE DETECTORS TO SHUT DOWN FANS WHEN SMOKE IS DETECTED. PROVIDE INTERLOCK FOR MONITORING OF DUCT SMOKE DETECTORS BY FIRE ALARM SYSTEM IF APPLICABLE. LOCATE DUCT SMOKE DETECTORS BEFORE THE FIRST BRANCH DUCT.
14. RUN GREASE DUCT UP THRU ROOF TO EXHAUST FAN. INSTALL 3M FIRE WRAP AROUND DUCTWORK PER M3.10 DETAILS. REFER TO SHEET M2.2 FOR CONTINUATION.
15. KEEP AREA ABOVE PANELBOARDS AND ABOVE WORKING AREA OF PANELBOARDS CLEAR OF DUCTWORK IN COMPLIANCE WITH NEC – COORDINATE WITH ELECTRICAL CONTRACTOR.
16. MOUNT ALL THERMOSTATS IN MANAGER'S OFFICE WALL, PROVIDE CLEAR LABELS FOR ALL T'STATS. EACH T'STAT SHALL HAVE A REMOTE TEMPERATURE SENSOR MOUNTED IN SPACE BEING SERVED BY HVAC SYSTEM. FINAL SENSOR LOCATIONS SHALL BE COORDINATED WITH OWNER AND ARCHITECT.
17. RUN LINED DUCT UP THRU ROOF TO AC UNIT. PROVIDE CURBED ROOF PENETRATION PER DETAIL 5/M3.8. REFER TO SHEET M2.2 FOR CONTINUATION.
18. PROVIDE COMBINATION FIRE/SMOKE DAMPER FOR DUCT PENETRATION THRU RATED CEILING LID AT EXIT CORRIDOR WHICH IS A TUNNEL CONSTRUCTION. SEE DETAIL 8/M3.5. PROVIDE REMOTE TEST AND RESET STATION AND MOUNT IN CORRIDOR WALL WITHIN 10 FEET OF FSD.
19. PROVIDE 4–INCH DIAMETER DRYER VENT DUCT THRU ROOF. DUCT SHALL BE OF ALUMINUM CONSTRUCTION. PROVIDE LINT TRAP BOX AND BOOSTER FAN, FANTECH OR EQUAL, ONE PER VENT DUCT. PROVIDE ROOF JACK, FLASHING, AND GOOSENECK TERMINATION ON ROOF WITH INSECT SCREEN.
20. PROVIDE A SECOND SET OF SA AND RA DUCT PENETRATIONS THRU ROOF FOR AC–5 TO AVOID EXISTING CONCRETE WALL BELOW AT COLUMN LINE 6. THE SECOND ROOF PENETRATION SHALL OCCUR ABOVE FLAT ROOF.

4

AIR DEVICE SCHEDULE

SYMBOL (1) (2)	MANUFACTURER/ CATALOG NUMBER	SERVICE	NOMINAL SIZE		MOUNTING		MATERIAL		FINISH	BORDER	REMARKS
			MOD.	NECK	CEILING	SIDEWALL	STEEL	ALUM.			
SD–1	TITUS PCS	KITCHEN AREAS SUPPLY AIR	24"x24"	SHOWN ON PLAN	●		●		#44 WHITE	LAY–IN T–BAR	①
SD–2	TITUS OMNI	BAR SUPPLY AIR	24"X24"	SHOWN ON PLAN	●		●		#44 WHITE	LAY–IN MOUNT	① ②
SD–4	THERMAFUSER TF–HC	CEILING SUPPLY AIR	24"X24"	SHOWN ON PLAN	●		●		#44 WHITE	LAY–IN MOUNT	① ② ③
SG–1	TITUS FLOWBAR FL–20	DINING AREAS SA AND RA	2"SLOT 4FT L	SHOWN ON PLAN	●		●			BORDER 22 H3 CLIP	④
SD–3	TITUS PMC	KITCHEN AREAS MAKEUP AIR	24"x24"	SHOWN ON PLAN	●		●		#44 WHITE	LAY–IN T–BAR	①
RG–1	TITUS OMNI	BAR AREAS RETURN AIR	24"x24"	SHOWN ON PLAN	●		●		#44 WHITE	LAY–IN T–BAR	① ②
EG–1	TITUS PAR	RESTROOMS EXHAUST AIR	12"X12"	SHOWN ON PLAN	●		●		#44 WHITE	LAY–IN MOUNT	① ② ③
RG–2	TITUS PAR	DINING AREAS CEILING RETURN AIR	40"X6"	SHOWN ON PLAN		●		●	#44 WHITE		⑤

① NECK DIMENSIONS AS INDICATED ON DRAWINGS. PROVIDE ADAPTOR AS REQUIRED.
② PROVIDE PLASTER TRIM FOR LAY–IN INSTALLATION ON SHEETROCK CEILING.
③ THERMALLY POWERED VAV HEATING/COOLING DIFFUSER WITH BUILT IN THERMOSTAT.
④ PROVIDE PLENUM AND REMOTE DAMPER OPERATOR IN SLOT
⑤ PROVIDE PLENUM AND REMOTE DAMPER OPERATOR PER DETAIL 9/M3.5



HVAC Floor Plan

1/8" = 1'–0"

CJ W ARCHITECTURE
130 Portola Road, suite A
Portola Valley, CA 94028
(650) 851-9335 / (Fax) 851-9337

Tantech Engineers
MEP CONSULTING ENGINEERS
1431 Cedar Street
San Carlos, CA 94070
(415) 269-4283

◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

HVAC Floor Plan

◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLDG SUBMITTAL 1
2	8.15.16	PLAN CHECK # 1 ADDENDUM # 3
3	8.25.16	ADDENDUM # 5
4	9.23.16	PLAN CHECK #2 ADDENDUM # 6

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: M2.1

CAL GREEN 2013 WATER FLOW RATES-20% REDUCTION

FIXTURE TYPE	CAL GREEN 2013 section 5.303.6		NUMBER INSTALLED	SUBCONTRACTOR INITIAL
	PREVIOUS ALLOWED FLOW RATE	PRESCRIPTIVE 20% REDUCTION REQUIREMENTS		
SINGLE SHOWER HEADS SECTION 5.303.3.3.1	2.5 GPM @ 80 PSI	2.0 GPM @ 80 PSI	17	
LAVATORY FAUCETS NON RESIDENTIAL SECTION 5.303.3.4.1	0.5 GPM @ 60 PSI	0.5 GPM @ 60 PSI	37	
KITCHEN FAUCETS SECTION 5.303.3.4.2	2.2 GPM @ 60 PSI	1.8 GPM @ 60 PSI	2	
MULTIPLE SHOWER HEADS SERVING ONE SHOWER SECTION 5.303.3.3.2	2.5 GPM @ 80 PSI	2.0 GPM @ 80 PSI	NOT APPLICABLE	
METERING FAUCETS 5.303.3.4.4	0.25/20GPM @ 60 PSI	0.25 GALLONS/CYCLE	NOT APPLICABLE	
WASH FOUNTAINS 5.303.3.4.3	2.0 GPM/20	1.8 GPM/20	NOT APPLICABLE	
WATER CLOSETS 5.303.3.1	1.6 GALLONS/FLUSH	1.28 GALLONS/FLUSH	20	
URINALS 5.303.3.2	1.0 GALLONS/FLUSH	0.5 GALLONS/FLUSH	7	

COMMISIONING AND ACCEPTANCE TESTING:

THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL COMMISSIONING THIRD PARTY AGENT OR CONSULTANT, CERTIFIED TO PERFORM THE MEP SYSTEMS COMMISSIONING AND TO PROVIDE A REPORT FOR ALL FUNCTIONAL PEFORMANCE TESTS COMPLETED AS PART OF THE ACCEPTANCE TEST PROCESS. THE LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIANS SHALL BE CERTIFIED THRU AN APPROVED TRAINING PROGRAM, AND REGISTERED WITHIN THE STATE OF CALIFORNIA. BUILDING COMMISSIONING REQUIREMENTS SHALL BE MET AS OUTLINED IN THE 2013 TITLE 24 STANDARDS, PART 11, SECTION 5.410 AND THE CALIFORNIA GREEN BUILDING STANDARDS CODE. ALL PLUMBING FIXTURES SHALL BE TESTED AND COMMISSIONED.

GENERAL NOTES:

1. COORDINATE AND VERIFY EXACT LOCATION, SIZE, POINT OF CONNECTION AND INVERT ELEVATION OF SANITARY SEWER, STORM DRAIN, AND WATER BEFORE TRENCHING AND INSTALLATION OF THE PLUMBING SYSTEM. NOTIFY THE ARCHITECT IMMEDIATELY IF THE PLUMBING DRAWINGS INDICATE DIFFERENT LOCATIONS AND INVERT ELEVATION OF THE EXISTING SITE UTILITIES.
2. COORDINATE AND VERIFY WITH STRUCTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS OF ALL GRADE BEAMS AND FOOTINGS. PROVIDE AND INSTALL SLEEVES THROUGH BEAMS AS REQUIRED WHETHER OR NOT SLEEVES ARE INDICATED ON THE PLUMBING DRAWINGS.
3. COORDINATE AND VERIFY ALL LOCATIONS, SIZES AND ELEVATIONS OF ALL SLEEVES THROUGH BEAMS, COLUMNS, SLABS AND FOOTINGS WITH STRUCTURAL ENGINEER AND ARCHITECT PRIOR TO STARTING INSTALLATION OF THE PLUMBING SYSTEM.
4. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL PLUMBING FIXTURES, DRAINS AND EQUIPMENT.
5. ALL HORIZONTAL WASTE LINES SHALL BE RUN AT A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS OTHERWISE NOTED ON PLAN.
6. ALL VENTS THROUGH ROOF SHALL BE 10'-0" MINIMUM AWAY FROM ANY FRESH AIR INTAKE AND WINDOW.
7. THE LOCATION AND ELEVATION OF ALL PLUMBING PIPING SHALL BE VERIFIED AND COORDINATED WITH ALL OTHER TRADES, STRUCTURAL CONDITIONS AND BUILDING CONSTRUCTION PRIOR TO START OF INSTALLATION.
8. ALL VALVES AND COCKS SHALL BE LOCATED TO BE READILY ACCESSIBLE. WHERE VALVES ARE INSTALLED WITHIN OR BEHIND WALLS, PARTITIONS OR CEILINGS, AN ACCESS PANEL SHALL BE INSTALLED.
9. ALL OUTLETS FOR FUTURE CONNECTIONS SHALL BE INSTALLED SO AS TO PERMIT EASY CONNECTION.
10. ALL PLUMBING WORK SHALL BE DONE IN ACCORDANCE WITH BASE-SHELL BUILDING SPECIFICATIONS.
11. ALL WASTE AND VENT PIPE SHALL SERVICE WEIGHT NO-HUB CAST IRON PIPE AND FITTINGS.
12. ALL HOT AND COLD WATER PIPING SHALL BE TYPE "L" COPPER TUBING, HARD DRAWN WITH WROT COPPER FITTINGS WITH COPPER BRAZED JOINTS.
13. ALL HOT WATER PIPING SHALL BE INSULATED, 1" MINIMUM THICKNESS, MANVILLE MICROLOK FIBERGLASS INSULATION.
14. HORIZONTAL RAINWATER PIPING SHALL BE SIZED BASED ON TABLE D-2 OF THE 2013 CALIFORNIA PLUMBING CODE .
15. ROOF DRAINS, OVERFLOW DRAINS AND RAINWATER PIPING WITHIN THE INTERIOR OF THE BUILDING SHALL BE TESTED IN ACCORDANCE WITH THE PROVISIONS OF THE PLUMBING CODE FOR TESTING DRAIN, WASTE AND VENT SYSTEMS .
16. OVERFLOW DRAINS HAVING THE SAME SIZES AS THE ROOF DRAINS SHALL BE INSTALLED WITH THE INLET FLOW LINE LOCATED TWO (2) INCHES ABOVE THE LOW POINT OF THE ROOF .
17. ROOF DRAIN AND OVERFLOW PIPING WITHIN THE BUILDING SHALL UTILIZE APPROVED DRAINAGE FITTINGS .
18. MANUFACTURED ROOF DRAINS AND OVERFLOW (FIXTURES) SHALL BE IAPMO LISTED .

WATER PIPE SIZING CALCULATION

MAPLE STREET SHELTER

JOB NAME : DOMESTIC POTABLE WATER

JOB NO. : _____

DATE : 5.20.16

RESERVOIR FED SYSTEM

PRESSURE AVAILABLE : MINIMUM = 70 P.S.I.
MAXIMUM = 76 P.S.I.

PRESSURE REQUIRED AT FARTHEST FIXTURE :	25 P.S.I.
PRESSURE LOSS DUE TO HEIGHT: 15'x.433	6.5 P.S.I.
PRESSURE LOSS THROUGH METER :	6 P.S.I.
PRESSURE LOSS THROUGH BACKFLOW:	12 P.S.I.
OTHER LOSSES :	_____ P.S.I.
TOTAL LOSSES :	49.5 P.S.I.

LOSS AVAILABLE FOR FRICTION :

76 - 49.5 = 26.5 P.S.I.

LENGTH OF RUN - METER TO FARTHEST FIXTURE :

OUTSIDE BUILDING :	50 FT.
INSIDE BUILDING :	200 FT.
TOTAL :	250 FT.
EQUIVALENT RUN : 250 X 1.25 =	312.5 FT.

ALLOWABLE FRICTION LOSSES :

PRESSURE AVAILABLE 26.5 P.S.I. X 100 / EQUIVALENT LENGTH 312.5 FT. = 8.48 P.S.I. / 100 FT.

SET AT 8.48 PSI/100 NOT TO EXCEED 8' PER SECOND

FRICTION LOSS 8.48 PSI PER 100 FEET

SIZE	FIXTURE UNITS			VELOCITY (FPS)	G.P.M.
	CW-FLUSH VALVE	CW-FLUSH TANK	HW		
1/2	0	3	3	2.3	1.7
3/4	0	11	9	3.0	4.5
1	0	24	17	3.5	9.0
1-1/4	14	55	29	4.0	15.6
1-1/2	35	104	48	4.5	25.0
2	136	260	120	5.3	51.5
2-1/2	358	474	246	6.1	91.0
3	699	747	412	6.8	145

PLUMBING FIXTURE SCHEDULE

UNIT NO.	DESCRIPTION	CONNECTION SIZES					REMARKS
		TRAP	W	V	CW	HW	
WC 1	WATER CLOSET FLUSH VALVE	INT.	4"	2"	1"	-	WALL HUNG WATER CLOSET, AMERICAN STANDARD AFWALL 2257.101, 5905.100 OPEN SEAT, SLOAN ROYAL 111-1.28 FLUSH VALVE, MIFAB MC-10 WALL CARRIER, ADA COMPLIANT MOUNTING, WHITE VIT. CHINA, BOLT CAPS AND ANGLE STOP
UR 1	URINAL	INT.	2"	1-1/2"	3/4"	-	WALL HUNG ADA COMPLIANT URINAL, ZURN Z755-U K-5016-ET SLOAN ROYAL 186-0.5, 0.5 GPF FLUSH VALVE, WHITE VITREOUS CHINA, WALL CARRIER
LAV 1	LAVATORY, UNDERCOUNTER MOUNT	2"	2"	1-1/2"	1/2"	1/2"	OVAL UNDERCOUNTER MOUNT LAVATORY, KOHLER CAXTON K-2210, 17"x14", WHITE VITREOUS CHINA, WITH OVERFLOW, PROVIDE GRID STRAINER AND BRASS DRAIN PIPE, PROVIDE TRUE BRO LAV INSULATION KIT, STOP AND SUPPLY VALVE, MOEN CHATEAU DECK MOUNT FAUCET WITH 0.5 GPM AERRATORS AND ADA COMPLIANT LEVER ZURN P-6900-MV-XL THERMOSTATIC MIXING VALVE
SH 1	STANDARD SHOWER STALLS ASSEMBLY	--	--	--	3/4"	3/4"	SYMMONS 1-911RS SHOWER ASSEMBLY, #22 SINGLE SUPPLY LEVER HANDLE, #221 SUPER BALL JOINT ADJUSTABLE SPRAY SHOWER HEAD WITH VOLUME CONTROL, #RS RECESSED SOAP DISH, 2.0 GPM FLOW RESTRICTOR, THERMOSTATIC PRESSURE BALANCED MIXING VALVE
SH 2	WALL MOUNT SINGLE SHOWER ASSEMBLY - ADA	--	--	--	3/4"	3/4"	SYMMONS 1-911RS SHOWER ASSMEBLY, #22 SINGLE SUPPLY LEVER HANDLE, #221 SUPER BALL JOINT ADJUSTABLE SPRAY SHOWER HEAD WITH VOLUME CONTROL, #RS RECESSED SOAP DISH, 2.0 GPM FLOW RESTRICTOR, THERMOSTATIC PRESSURE BALANCED MIXING VALVE
SD 1	SHOWER FLOOR DRAIN FOR SHOWER SH-1 AND SH-2	2"	2"	1-1/2"	-	-	J.R. SMITH 2005-ALP050, 6" STAINLESS STEEL STRAINER, SPEEDI-SET OUTLET
FD 1	FLOOR DRAIN	3"	3"	2"	-	-	JR. SMITH 2005-B6 W/ NICKEL BRONZE 6"ROUND STRAINER 1/2 INCH TRAP PRIMER TAP, VANDAL PROOF SCREWS CLAMPING COLAR AND SEEPAGE OPENINGS
FS 1	FLOOR SINK	3"	3"	2"	-	-	JR. SMITH 3120F , 12 INCH SQUARE, 8" SUMP DOME STRAINER PROVIDE HALF GRATE FOR INDIRECT WASTE RECEIVER
WC 2	FLOOR MOUNT WATER CLOSET FLUSH VALVE	INT.	4"	2"	1"	-	FLOOR MOUNT WATER CLOSET, AMERICAN STANDARD, MODEL TBD BY ARCHITECT AM STD. 5905.100 OPEN SEAT, SLOAN ROYAL 111-1.28 FLUSH VALVE ADA COMPLIANT MOUNTING, WHITE VIT. CHINA, BOLT CAPS, AND ANGLE STOP VALVE
SK 1	LAUNDRY ROOM SINK	2"	2"	1-1/2"	1/2"	1/2"	ELKAY STAINLESS STEEL SINK, COUNTER MOUNT, 24"WIDE X 6"DEEP, ADA ACCESSIBLE, PROVIDE OFF SET DRAIN AND TRAP. FOR ADA ACCESS BELOW, ZURN Z831C4-XL-140 GOOSENECK FAUCET, TRUEBRO EZ TRAP INSULATION KIT
SK 2	EXAM ROOM SINK	2"	2"	1-1/2"	1/2"	1/2"	ELKAY STAINLESS STEEL SINK, COUNTER MOUNT, MODEL LRADQ191855, 19X18X5.5" DEEP, PROVIDE OFF SET DRAIN AND TRAP. FOR ADA ACCESS BELOW, ZURN Z831C4-XL-140 GOOSENECK FAUCET, TRUEBRO EZ TRAP INSULATION KIT
SK 3	STAFF MEETING ROOM SINK	2"	2"	1-1/2"	1/2"	1/2"	ELKAY STAINLESS STEEL SINK, COUNTER MOUNT, 24"WIDE X 6"DEEP, ADA ACCESSIBLE, PROVIDE OFF SET DRAIN AND TRAP. FOR ADA ACCESS BELOW, ZURN Z831C4-XL-140 GOOSENECK FAUCET, TRUEBRO EZ TRAP INSULATION KIT
MS 1	JANITORIAL MOP SINK	2"	2"	1-1/2"	1/2"	1/2"	ELKAY SERVICE SINK, FLOOR MODEL EFS3321C, WITH SERVICE/UTILITY WALL MOUNT FAUCET WITH VACUUM BREAKER, ELKAY MODEL LKB940C
HB 1	HOSE BIBB	-	-	-	3/4"	-	WOODFORD MODEL 24P CP W/ VAC. BRKR.
HB 2	HOSE BIBB	-	-	-	3/4"	-	ACORN MODEL 8151 RECESSED HOSE BOX W/ VAC. BRKR.
LAV 2	LAVATORY, WALL HUNG ADA COMPLIANT	2"	2"	1-1/2"	1/2"	1/2"	KOHLER K-2005 KINGSTON LAVATORY, WALL HUNG, ZURN Z-1251 WALL CARRIER, ZURN P-6900-MV-XL POINT OF USE THERMOSTATIC MIXING VALVE, MOEN B416 FAUCET, PROFLO PFQD100 GRID DRAIN, PROFLO P-TRAP, STOP & SUPPLY ANGLE VALVES, TRUEBRO EZ TRAP INSULATION KIT
TMV 1	MIXING VALVE	-	-	-	1"	1-1/4"	SYMMONS MODEL 7-400, PREPIPED WITH TEMP. GAUGE AND BALL VALVE, THERMOSTATIC MIXING VALVE ASSEMBLY, ONE ASSEMBLY PER WATER HEATER RACK PAIR, 1" INLETS - 1-1/4" OUTLET
DF 1	DRINKING FOUNTAIN	2"	2"	1-1/2"	3/4"	-	ELKAY EZH20 BOTTLE FILLER STATION, FILTERED BI-LEVEL LZ COOLER, ELKAY LZSTL8WS(VR) HI-LOW ADA COMPLIANT WATER DUAL WATER COOLER WITH CHILLER, 115V-1PH, 4.2 AMPS, PROVIDE (2) ELECT OUTLETS PER ROUGH IN MFR SKETCH, ELKAY MLP-200 WALL CARRIER, PROVIDE FINISH PER ARCHITECTS DIRECTION
TD 1	PET KENNEL TRENCH DRAIN SYSTEM	4"	4"	2"	-	-	JR SMITH 9895 KLASSKDRAIN TRENCH DRAIN SYSTEM , 6-INCH WIDTH TRENCH DRAIN SYSTEM, INTERLOCKING PRECAST POLYESTER CONCRETE CHANNELS WITH METAL RAIL , JR SMITH 9870-491 SLOTTED BLACK POLYPROYLENE GRATE, INSTALL PER MFR INSTRUCTIONS, PROVIDE 4-INCH BOTTOM DRAIN CONNECTIONS
WHR 1 WHR 2 WHR 3 WHR 4	WATER HEATER RACK (TYPICAL OF FOUR)	-	-	-	2"	2"	HIGH EFFICIENCY TANKLESS TYPE WATER HEATER, GAS-FIRED, NORITZ C-199i WITH TRS-04 RACK ASSEMBLY WITH FOUR UNITS PER ASSEMBLY WITH, 2 UNITS BACK TO BACK WATER RACK ASSEMBLY, SHALL BE FACTORY PREPIPED AND PREINSTALLED ON METAL RACK WITH COMMON CW, HW, GAS, AND CONDENSATE MANIFOLDS, RATED FOR MAX. 199x4=769 MBH GAS INPUT, PROVIDE 6"PVC COMMON FLUE VENTING KIT FOR BOTH EXHAUST & COMBUSTION AIR INTAKE WITH VERTICAL THRU ROOF TERMINATION KITS, ROOF JACKS AND CAPS, TWO TRS-04 SYSTEMS PER VENT ASSEMBLY KIT, PROVIDE MSB CONTROLLER AND CABLE KITS, INSTALL AND WIRE PER MFR INSTALLATION INSTRUCTIONS. WEIGHT: 357 LBS, DIMENSIONS:44"X29"X58" HT.
	PROVIDE (1) CONDENSATE NEUTRALIZATION TANK TO SERVE WHR-1 AND WHR-2, AND HAS PREPIPED CONDENSATE DRAIN MANIFOLD, COLLECT TO RACKS TO A 1-INCH PVC LINE MECH CONTRACTOR SHALL PROVIDE SHEET METAL DRAIN PAN AND PLUMBER SHALL RUN ABOVE NEAREST SINK. WATER HEATER RACK #1 AND #2 SHALL SHARE ONE THERMOSTATIC MIXING VALVE ASSEMBLY AND ONE EXPANSION TANK. EXPANSION TANK SHALL BE AMTROL THERM X-TROL ST-8. WATER HEATER RACK #3 SHALL HAVE ONE THERMOSTATIC MIXING VALVE ASSEMBLY AND ONE EXPANSION TANK. EXPANSION TANK SHALL BE AMTROL THERM X-TROL ST-5. WATER HEATER RACK #4 SHALL HAVE ONE THERMOSTATIC MIXING VALVE ASSEMBLY AND ONE EXPANSION TANK. EXPANSION TANK SHALL BE AMTROL THERM X-TROL ST-5.						PROVIDE (1) SEPARATE COND. NEUTR. TANK TO SERVE WHR-3 AND WHR-4. EACH RACK AND RUN AS INDIRECT WASTE TO A RECEPTION IN ATTIC (WITH TRAP PRIMER). SECONDARY 1-INCH DRAIN LINE FROM DRAIN PAN TO DISCHARGE WITH ESCTUCHEON
GI 1	OUTDOOR GREASE INTERCEPTOR	-	4"	3"	-	-	OUTDOOR GREASE INTERCEPTOR, JENSEN PRECAST MODEL JP750-EPE, 4" CAST IRON MANHOLE COVERS WITH EXTENSION RINGS AS REQD TO MEET GRADE
RPBP 1	REDUCED PRESSURE BACKFLOW PREVENTER	-	-	-	1"	-	WATTS 009-QTS, REDUCED PRESSURE PRINCIPLE, W/ STRAINER, DRAIN TO FLOOR SINK.
WHA 1	WATER HAMMER ARRESTER	-	-	AS NOTED	-	-	PRECISION PLUMBING PRODUCTS
PRV 1	PRESSURE REDUCING VALVE	-	-	-	-	-	WATTS #223-5 BRONZE "Y" STRAINER IN LINE.
TP 1	TRAP PRIMER	-	-	-	3/4"	-	PRECISION PLUMBING PRODUCTS, PPP #P1-500 WITH DU-4. CONCEAL BEHIND STAINLESS STEEL WALL ACCESS COVER.

NOTES:
1. FOR ALL LAVATORIES L-1 AND L-2 SERVING THE PUBLIC, PROVIDE A WATER TEMP LIMITING DEVICE THAT LIMITS TEMP TO 120 DEGF MAXIMUM AND CONFORMS WITH STANDARD ASSE 1070, WILKINS MODEL ZW3870XLT OR APPROVED EQUAL.

PLUMBING FIXTURE SCHEDULE | 2

PIPE SCHEDULE

SERVICE	LOCATION	MATERIALS: TYPE "L" COPPER	TYPE "K" COPPER	NO-HUB CAST IRON	SCH 40 PVC DWV	SCH 80 PVC DWV	SCH 40 BLACK STEEL	SCH 40 GALV. STEEL	SCH 40 PVC PRESSURE	SCH 80 PVC PRESSURE	SCH 40 CPVC PRESSURE	SCH 40 PVC DRAINAGE	SCH 40 PVC CW/HOT	FITTINGS
														SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION
WATER	INSIDE	●											●	LEAD FREE SOLDER
	OUTSIDE	●												LEAD FREE SOLDER
WASTE	ABV. FLR.			●										PROVIDE TYLER 2-BAND NO-HUB COUPLINGS
	BEL. FLR.				●									SCH 40 PVC DWV WITH SOVENT WELD JOINTS
VENT	ABV. FLR.			●										PROVIDE TYLER 2-BAND NO-HUB COUPLINGS
	BEL. FLR.				●									SCH 40 PVC DWV WITH SOVENT WELD JOINTS
INDIRECT WASTE	INSIDE	●												LEAD FREE SOLDER
	OUTSIDE	●												LEAD FREE SOLDER
CONDENSATE DRAIN	INSIDE	●												LEAD FREE SOLDER
	OUTSIDE	●												LEAD FREE SOLDER
GAS	INSIDE					●								SCH. 40 THREADED FITTINGS - 2" & SMALLER
	OUTSIDE						●							SCH. 40 THREADED FITTINGS - 2" & SMALLER
	IN/OUT						●							WELDED JOINTS - 2.5" AND LARGER
STORM DRAIN				●										PROVIDE TYLER 2-BAND NO-HUB COUPLINGS
ROOF DRAIN				●										PROVIDE TYLER 2-BAND NO-HUB COUPLINGS
RECYCLED WATER	INSIDE							●						SEE SHEET P0.2
	OUTSIDE							●						SEE SHEET P0.2

PIPE SCHEDULE & GENERAL NOTES | SCALE NONE | 4

LEGEND

SYMBOL	ABBR.	DESCRIPTION
	S OR W	SOIL OR WASTE ABOVE FLOOR OR GRADE
	S OR W	SOIL OR WASTE BELOW FLOOR OR GRADE
CWV	CWV	COMBINATION WASTE & VENT BELOW GRADE
SD	SD	STORM DRAIN ABOVE FLOOR OR GRADE
SD	SD	STORM DRAIN BELOW FLOOR OR GRADE
OD	OD	OVERFLOW DRAIN ABOVE FLOOR OR GRADE
OD	OD	OVERFLOW DRAIN BELOW FLOOR OR GRADE
	V	SANITARY VENT
	CW	COLD WATER
ICW	ICW	INDUSTRIAL COLD WATER
	HW	HOT WATER
	HWR	HOT WATER RETURN
	A	COMPRESSED AIR
	F	FIRE MAIN
AS	AS	AUTOMATIC FIRE SPRINKLER
ASD	ASD	AUTOMATIC SPRINKLER DRAIN
D	D	INDIRECT DRAIN LINE
CD	CD	CONDENSATE DRAIN
G	G	FUEL GAS
TP	TP	TRAP PRIMER
		DIRECTION OF FLOW
P.G.	P.G.	PRESSURE GAUGE W/PETE COCK
G.C.	G.C.	GAS COCK
P.R.V.	P.R.V.	PRESSURE REDUCING VALVE
G.V.	G.V.	GATE VALVE
FCO	FCO	FLOOR CLEANOUT
WCO	WCO	WALL CLEANOUT
		DOWN
		RISE
		UNION
		SLOPE IN DIRECTION OF FLOW
W.H.A.	W.H.A.	WATER HAMMER ARRESTOR
P.O.C.	P.O.C.	POINT OF CONNECTION
RPBP	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
	ABV.	ABOVE
	A.F.F.	ABOVE FINISHED FLOOR
	A.P.	ACCESS PANEL
	BEH.	BEHIND
	BEL.	BELOW
	CLG.	CEILING
	CONT.	CONTINUATION
	EXIST.	EXISTING
	FDC	FIRE DEPT. CONNECTION
	F.F.E.	FINISHED FLOOR ELEVATION
	FLR.	FLOOR
	FR.	FROM
	GR	GRADE
	HDR	HEADER
	I.E.	INVERT ELEVATION
	O.S.&Y.	OUTSIDE SCREW & YOKE
	PIV	POST INDICATOR VALVE
	VTR	VENT THROUGH ROOF
	PTR	PRESSURE, TEMP., RELIEF VALVE

SHEET INDEX

PLUMBING LEGEND | SCALE NONE | 1

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PLUMBING LEGEND, NOTES, AND SCHEDULES

REVISIONS

No.	Date	Notes
	6.17.16	BLDG SUBMITTAL 1
2	8.15.16	PLAN CHECK # 1 ADDENDUM # 3
3	8.25.16	ADDENDUM # 5
4	9.23.16	PLAN CHECK #2 ADDENDUM # 6

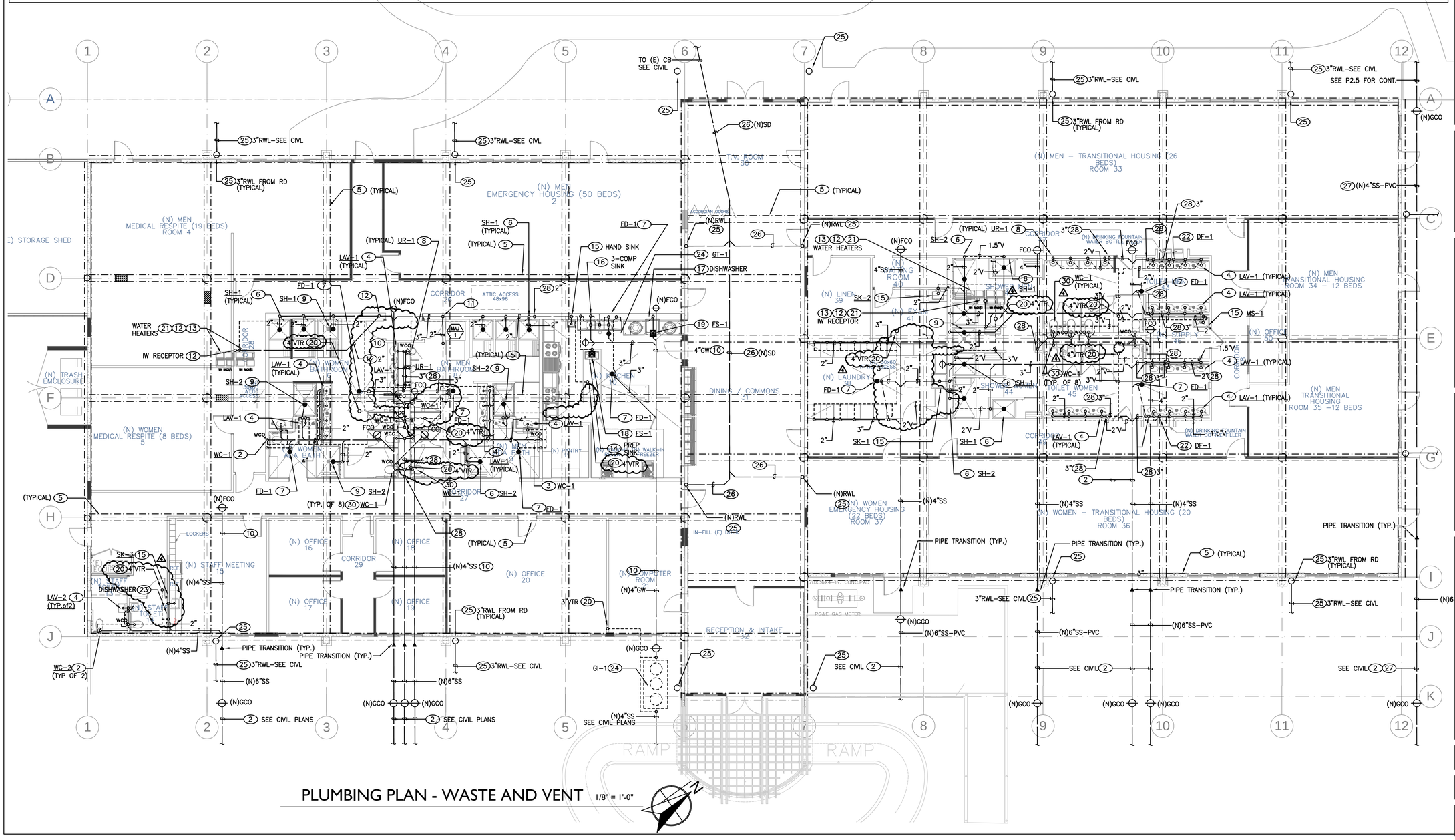
JOB: 2015.2801

DATE: 06/17/16

SHEET: P0.1

KEYED SHEET NOTES:

1. DEMOLISH AND REMOVE EXISTING RESTROOM FIXTURES AND ASSOCIATED PLUMBING WORK. CAP OFF PIPING BELOW SLAB.
2. RUN 4" WASTE AND 2" VENT UP IN WALL FOR WATER CLOSET. PROVIDE WALL CARRIER FOR WALL HUNG FIXTURE, MIFAB OR EQUAL. FOR BACK TO BACK FIXTURES PROVIDE THE APPROPRIATE WALL CARRIER TYPE.
3. RUN 4" WASTE AND 2" VENT UP IN WALL FOR WATER CLOSET. PROVIDE WALL CARRIER FOR WALL HUNG FIXTURE, MIFAB OR EQUAL. REVIEW EXISTING GRADE BEAM CONDITIONS BEFORE START OF WORK AND ADJUST LAYOUT IN FIELD TO BEST SUIT FIELD CONDITIONS AND TO AVOID CORING THRU GRADE BEAMS WHERE POSSIBLE, AT NO ADDED COST TO OWNER.
4. RUN 2" WASTE AND 1.5" VENT UP IN WALL FOR LAVATORY. PROVIDE TRAP INSULATION KIT, TRUEBRO EZ OR EQUAL.
5. OUTLINE OF EXISTING FOUNDATION GRADE BEAMS BELOW SLAB, NEW WORK SHALL NOT CONFLICT WITH GRADE BEAMS AND SHALL NOT DAMAGE GRADE BEAMS – VERIFY INVERT ELEVATIONS AND DIMENSIONS AND CONDITIONS IN FIELD. REUSE EXISTING SLEEVES THRU GRADE BEAMS WHERE FEASIBLE – VERIFY IN FIELD. THE PROJECT INTENT IS TO AVOID CORING THRU GRADE BEAMS WHERE POSSIBLE. ANY PROPOSED NEW CORING THRU GRADE BEAMS IF REQUIRED BY FIELD CONDITIONS SHALL BE REVIEWED AND APPROVED BY STRUCTURAL ENGINEER BEFORE START OF WORK.
6. RUN 2" WASTE AND 1.5" VENT UP IN WALL FOR SHOWER DRAIN.
7. RUN 3" WASTE AND 2" VENT UP IN WALL FOR FLOOR DRAIN. PROVIDE TRAP PRIMER AND RUN 1/2"CW LINE BELOW SLAB TO TRAP.
8. RUN 2" WASTE AND 1.5" VENT UP IN WALL FOR URINAL. PROVIDE WALL CARRIER.
9. RUN 2" WASTE AND 1.5" VENT UP IN WALL FOR SHOWER DRAIN. LOCATE SHOWER DRAIN OFF CENTER AS REQUIRED TO AVOID CONFLICT WITH GRADE BEAMS BELOW – VERIFY IN FIELD. SLOPE FLOOR TO CENTERLINE OF FLOOR DRAIN – SEE ARCH PLANS.
10. GENERAL: RUN ALL SANITARY WASTE PIPING AT 1/4–INCH PER FOOT SLOPE WHERE FEASIBLE. ALL UNDERSLAB WASTE AND VENT PIPING SHALL BE SCH 40 PVC CONSTRUCTION , DWV SERVICE WEIGHT, SDR–26. ALL UNDERGROUND PIPING SHALL BE SUPPORTED ON STAINLESS STEEL STRAPS AND HANGER RODS AT 8 FEET ON CENTER AND SECURE HANGER RODS FROM SLAB STRUCTURE OR UNDERSIDE OF EXISTING GRADE BEAMS WITH 3/4–INCH EMBED ANCHOR BOLTS. CUTTING THRU EXISTING REBAR REINFORCED SLAB SHALL BE MINIMIZED AND DONE ONLY WITH STRUCTURAL ENGINEERS APPROVAL AND REVIEW. REFER TO SHEET P2.4 FOR PROPOSED AREAS OF SLAB REMOVAL BETWEEN EXISTING GRADE BEAMS. TRENCH, EXCAVATE AND BACKFILL WORK OUTSIDE F DESIGNATED SLAB REMOVAL AREAS SHALL ALL HAPPEN BELOW EXISTING SLAB STRUCTURE. OUTSIDE OF DESIGNATED SLAB REMOVAL AREAS, THE CONTRACTOR SHALL PROVIDE OWNER WITH PROPOSED METHOD OF INSTALLATION OF UNDERGROUND PIPING, INCLUDING SUPPORT OF PIPING FROM EXISTING SLAB STRUCTURE, WITH NO SAWCUTTING OF EXISTING REINFORCED SLAB STRUCTURE. THE PROJECT MAY INVOLVE EXCAVATION AND DIGGING OF TUNNELS TO ALLOW FOR INSTALLATION AT EACH LATERAL FROM BELOW SLAB.
11. RUN 2" WASTE AND 1.5" VENT UP TO ATTIC SPACE AND PROVIDE INDIRECT WASTE RECEPTOR FOR MAU–1. RUN 1.5" CONDENSATE DRAIN LINE FOR MAU–1 AND TERMINATE ABOVE IW RECEPTOR WITH AIR GAP. PROVIDE TRAP PRIMER FOR IW RECEPTOR TRAP.
12. RUN 2" WASTE AND 1.5" VENT UP TO ATTIC SPACE AND PROVIDE INDIRECT WASTE RECEPTOR FOR WATER HEATER RACKS. RUN 1" PVC CONDENSATE DRAIN LINES FROM EACH WATER HEATER RACK MANIFOLD TO THE IW RECEPTOR AND TERMINATE WITH AIR GAP. PROVIDE TRAP PRIMER FOR IW RECEPTOR TRAP. SEE SHEET M2.3 FOR LOCATION OF WATER HEATER RACKS. PROVIDE CONDENSATE NEUTRALIZER TANK FOR EACH TWO WATER HEATER RACKS AND INSTALL PER MFR. INSTALLATION INSTRUCTIONS.
13. RUN 3/4" PVC CONDENSATE DRAIN LINES FROM EACH WATER HEATER RACK FLUE CVENT END PIECE AND TERMINATE WITH AIR GAP ABOVE IW RECEPTOR. TWO WATER HEATER RACKS SHARE ONE 8–INCH CPVC FLUE. PROVIDE AND INSTALL CONDENSATE DRAIN TRAP PER MFR INSTALLATION INSTRUCTION AS PROVIDED BY RINNAI.
14. RUN FULLSIZE INDIRECT WASTE LINE FROM PREP SINK TO TERMINATE ABOVE FLOOR SINK WITH AIR GAP.
15. RUN 2" WASTE AND 1.5" VENT UP IN WALL FOR SINK.
16. RUN 2" GREASE WASTE FROM EACH COMPARTMENT AND COLLECT TO A COMMON 3" GREASE WASTE LINE AND RUN TO WALL AND DOWN THRU SLAB TO UNDERGROUND GW LINE. PROVIDE 2" VENT UP IN WALL.
17. RUN 2" INDIRECT WASTE LINE FROM DISHWASHER TO TERMINATE ABOVE FLOOR SINK WITH AIR GAP.
18. RUN 3" PVC GREASE WASTE FROM FLOOR SINK, WITH 2" VENT UP IN WALL AND CONNECT TO GREASE WASTE LINE.
19. RUN 3" WASTE FROM FLOOR SINK, WITH 2" VENT UP IN WALL AND CONNECT TO SANITARY WASTE SYSTEM.
20. RUN 4" SANITARY VENT THRU ROOF WITH ROOF JACK, FLASHING AND SEAL WEATHERTIGHT USING ROOFING CONTRACTOR. TERMINATE VTR A MINIMUM OF 15 FEET FROM ANY FRESH AIR INTAKES ON ROOF – COORDINATE WITH MECHANICAL CONTRACTOR.
21. RUN 3/4" T&PRV RELIEF VALVE DRAIN LINES FROM WATER HEATERS TO THE INDIRECT WASTE RECEPTORS IN ATTIC SPACE, WITH AIR GAP TERMINATION. PROVIDE SHEET METAL DRAIN PAN BELOW EACH WATER HEATER RACK AND RUN 1–INCH SECONDARY DRAIN LINE FROM SHEET METAL PAN THRU THE CEILING WITH ESCUTCHEON, ABOVE A SINK SUCH THAT ANY LEAKAGE PROBLEMS WILL BE VISIBLE FROM BELOW.
22. RUN 2" WASTE AND 1.5" VENT UP IN WALL FOR DRINKING FOUNTAIN.
23. RUN 2" WASTE AND 1.5" VENT UP IN WALL FOR DISHWASHER. PROVIDE AIR GAP ABOVE COUNTER AND INSTALL DRAIN PER MFR INSTRUCTIONS.
24. FURNISH AND INSTALL AN UNDERGROUND OUTDOOR GREASE INTERCEPTOR, JENSEN PRECAST JP750–EPE–G, WITH 4" GREASE WASTE IN AND OUT. PROVIDE 24–INCH CAST IRON MANHOLE COVERS AND EXTENSION RINGS AS REQUIRED. PROVIDE VENT LINES TO BUILDING AS SHOWN.
25. FURNISH AND INSTALL NEW RAINWATER LEADERS, TO REPLACE EXISTING RWL IN SAME LOCATIONS AND SIZES – COPPER PIPING CONSTRUCTION FOR VERTICAL RISERS. ROOF DRAINS SHALL ALSO BE REPLACED WITH NEW IN SAME LOCATION – SEE SHEET P2.3 AND P2.4. VERIFY CONDITIONS IN FIELD. PROVIDE 3" RAINWATER LEADERS SECURED TO WALL TO REPLACE EXISTING 3" SHEETMETAL DOWNSPOUTS. RUN RWL DOWN TO BELOW GRADE AND CONNECT TO EXISTING UNDERGROUND STORM DRAIN SYSTEM – SEE CIVIL DRAWINGS.
26. FURNISH AND INSTALL NEW STORM DRAIN LINES BELOW SLAB IN SAME LAYOUT AND LOCATION AND SIZES TO REPLACE EXISTING – SEE SHEET P2.4. THE UNDERGROUND PIPING SHALL BE PVC SCH 40 CONSTRUCTION WITH STAINLESS STEEL SUPPORTS SET AT 8 FT OC, SECURED TO SLAB OR GRADE BEAM STRUCTURE WITH S.S. ANCHOR BOLTS AND USE S.S. HANGERS AND STRAPS.
27. RUN 4"SS FROM PET KENNEL AREA TO THE SEWER MAIN – SEE CIVIL PLANS FOR CONTINUATION.
28. RUN WASTE LINE CONCEALED IN CHASE ABOVE SLAB AND PENETRATE SLAB AT LOCATION AS SHOWN TO AVOID GRADE BEAM.
29. GENERAL: CONTRACTOR SHALL PERFORM GPR OR XRAY OF EXISTING SLAB STRUCTURE BEFORE CORING FOR NEW FLOOR SINKS OR FLOOR DRAINS TO AVOID CONFLICTS WITH EXISTING REBAR AND SLAB REINFORCEMENTS. CORING THRU EXISTING REBAR REINFORCED SLAB SHALL BE DONE PER STRUCTURAL ENGINEERS RECOMMENDATIONS.
30. RUN 4" WASTE AND 2" VENT UP IN WALL FOR WATER CLOSET. PROVIDE BACK TOP BACK WALL CARRIER FOR WALL HUNG FIXTURES, MIFAB OR EQUAL. RUN 4" WASTE LINE IN CHASE BEHIND FIXTURES ABOVE FINISH FLOOR AND RUN TO CHASE TO CLEAR GRADE BEAM BEFORE SLAB PENETRATION.



PLUMBING PLAN - WASTE AND VENT 1/8" = 1'-0"

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PLUMBING PLAN - WASTE AND VENT

◦ REVISIONS ◦

No.	Date	Notes
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2	8.15.16	PLAN CHECK # 1 ADDENDUM # 3
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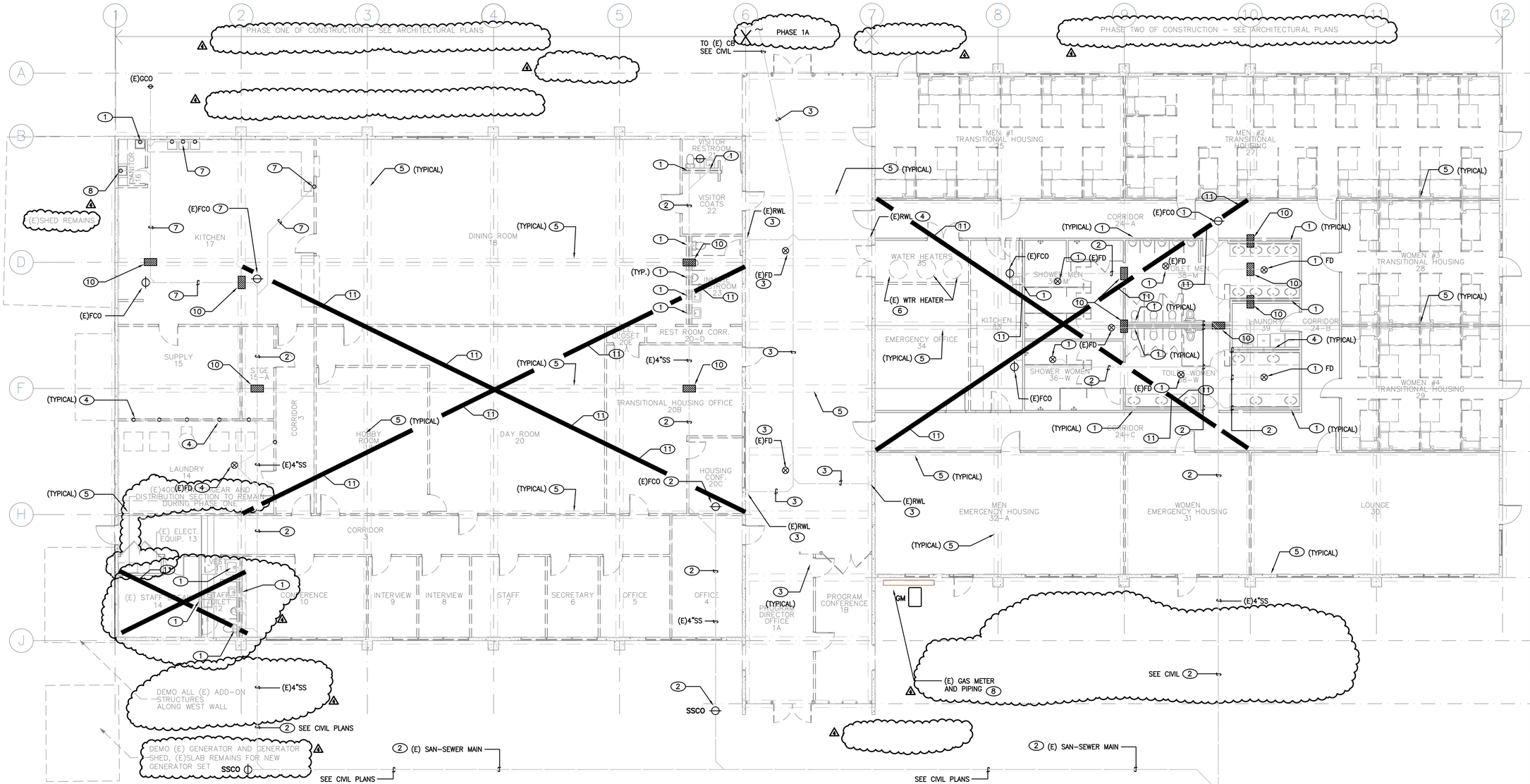
◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: P2.1



PLUMBING PLAN - DEMOLITION

1/8" = 1'-0"

KEYED SHEET NOTES:

1. DEMOLISH AND REMOVE EXISTING RESTROOM FIXTURES AND ASSOCIATED PLUMBING WORK. CAP OFF PIPING BELOW SLAB.
2. DEMOLISH AND REMOVE EXISTING UNDERSLAB SANITARY WASTE AND VENT PIPING AND PATCH SLAB TO MATCH EXISTING CONDITIONS.
3. DEMOLISH AND REMOVE EXISTING UNDERSLAB STORM DRAIN AND REMOVE PIPING UP TO INTERIOR ROOF DRAINS AND REMOVE EXISTING RAINWATER LEADERS ABOVE SLAB AND BELOW SLAB. PATCH SLAB TO MATCH EXISTING CONDITONS.
4. DEMOLISH AND REMOVE ALL LAUNDRY ROOM EQUIPMENT AND ASSOCIATED GAS PIPING, HOT AND COLD WATER PIPING, WASTE AND VENT PIPING, AND ALL FLOOR SINKS AND FLOOR DRAINS – VERIFY CONDITIONS IN FIELD.
5. OUTLINE OF EXISTING FOUNDATION GRADE BEAMS BELOW SLAB, DEMOLITION WORK SHALL NOT CONFLICT WITH GRADE BEAMS AND SHALL NOT DAMAGE GRADE BEAMS – VERIFY INVERT ELEVATIONS AND DIMENSIONS AND CONDITIONS IN FIELD.
6. DEMOLISH AND REMOVE THREE EXISTING 275 MBH, 100 GALLON WATER GAS WATER HEATERS AND ASSOCIATED GAS PIPING, FLUES, HOT AND COLD WATER PIPING, WASTE AND VENT PIPING, AND ALL FLOOR SINKS AND FLOOR DRAINS – VERIFY CONDITIONS IN FIELD. THIS SHALL BE DONE IN PHASE 2 OF PROJECT.
7. DEMOLISH AND REMOVE ALL KITCHEN EQUIPMENT AND ASSOCIATED GAS PIPING, HOT AND COLD WATER PIPING, WASTE AND VENT PIPING, GREASE TRAP AND GREASE WASTE PIPING, AND ALL FLOOR SINKS AND FLOOR DRAINS – VERIFY CONDITIONS IN FIELD.
8. DEMOLISH AND REMOVE EXISTING GAS METER AND ASSOCIATED GAS PIPING INSIDE BUILDING – VERIFY SIZES AND LOCATIONS OF ALL PIPING. THE PROJECT INTENT IS PG&E WILL BE UPGRADING WITH NEW GAS METER AND NEW LOW PRESSURE GAS LINE WILL BE FURNISHED AND INSTALLED BY CONTRACTOR – SEE SHEET P2.2 AND P2.3.
9. GENERAL: THE EXISTING UNDERSLAB SEWER PIPING SHOWN ON PLANS ARE TAKEN FROM BRIEF VISUAL OBSERVATIONS AND FROM OLD RECORD DRAWINGS AND ARE NOT TO BE CONSIDERED AS BUILT CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD VERIFICATION OF EXISTING CONDITIONS.
10. ASSUMED LOCATIONS OF EXISTING SLEEVES AND OPENINGS THRU EXISTING FOUNDATION GRADE BEAMS FOR PLUMBING PIPES TO ALLOW ROUTING OF UNDERSLAB PIPING WITHIN EXISTING DEPTH OF BEAMS – AVAILABLE FOR CONTRACTOR TO REUSE IF FEASIBLE FOR NEW PIPING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD VERIFICATION OF EXISTING CONDITIONS.
11. SELECT AREAS OF THE EXISTING STRUCTURAL SLAB INCLUDING REBAR AND REINFORCEMENT MEMBERS SHALL BE DEMOLISHED AND SAWCUT BETWEEN GRADE BEAMS – REFER TO STRUCTURAL PLANS FOR INFORMATION. THE ZONES DEFINED ON THIS PLAN ARE SHOWN FOR REFERENCE ONLY.
12. DEMOLISH AND REMOVE EXISTING SOLAR WATER HEATING PIPES WITH INSULATION AND SUPPORTS ABOVE ROOF AND BELOW ROOF FROM EXISTING MAIN JAIL BUILDING AND DISCONNECT EXISTING VALVES AND CONTROLS SUCH THAT THE ENTIRETY OF THE OCCUPIED SPACES IN BUILDING DURING PHASE 1 AND PHASE 1B SHALL RELY ON THE THREE EXISTING WATER HEATERS IN WATER HEATER ROOM, AND SHALL NOT RELY ON SOLAR WATER HEATING ASSISTANCE.

2 DEMOLISH AND REMOVE ALL KITCHEN EQUIPMENT AND ASSOCIATED GAS PIPING, HOT AND COLD WATER PIPING, WASTE AND VENT PIPING, GREASE TRAP AND GREASE WASTE PIPING, ND ALL FLOOR SINKS AND FLOOR DRAINS – VERIFY CONDITIONS IN FIELD.

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PLUMBING PLAN - DEMOLITION

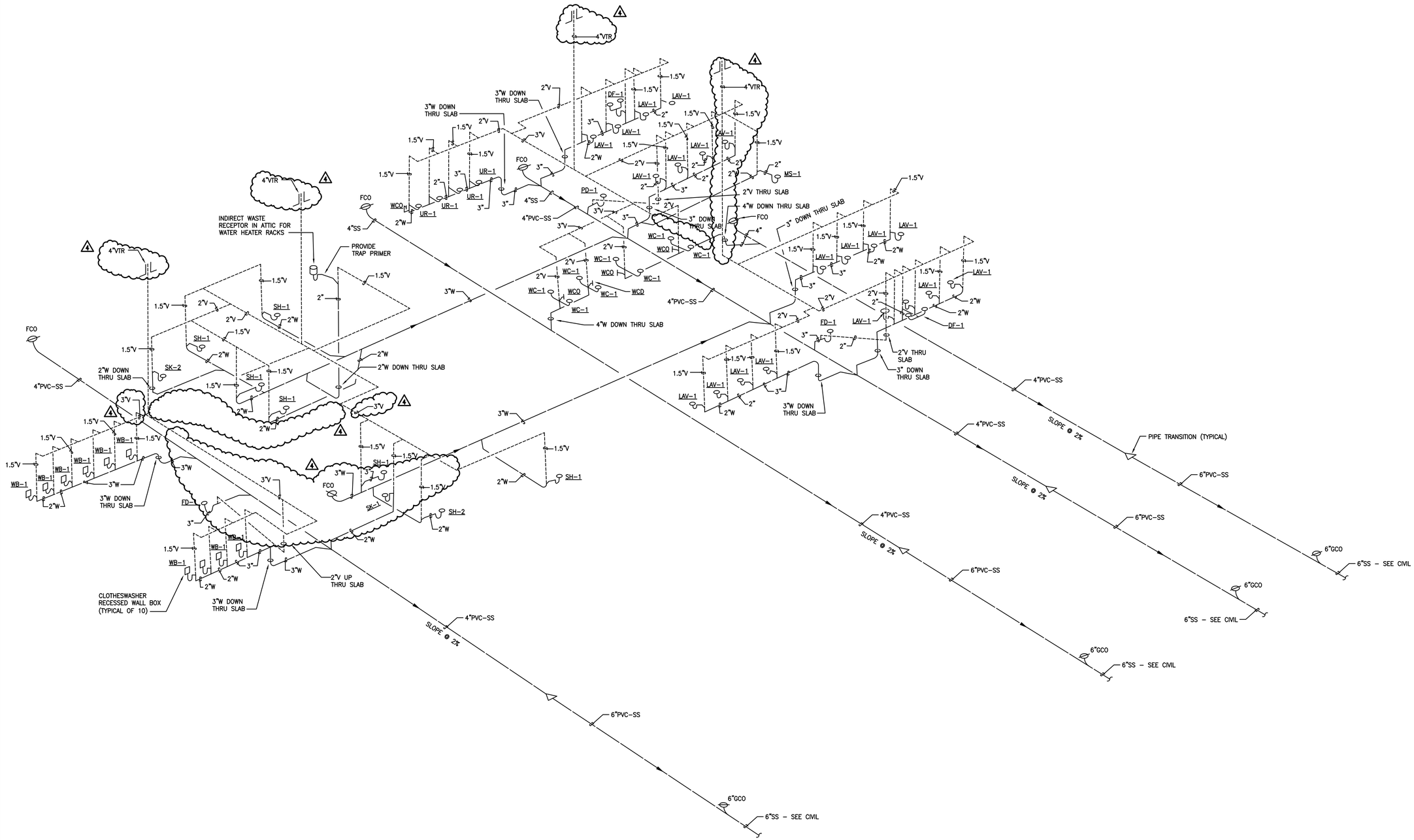
◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLDG SUBMITTAL 1
2	8.15.16	PLAN CHECK # 1 ADDENDUM # 3
3	8.25.16	ADDENDUM # 5
4	9.23.16	PLAN CHECK #2 ADDENDUM # 6

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: P2.4



1 WASTE AND VENT RISER DIAGRAM - EAST BETWEEN COL. 7 AND 12

N.T.S.

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

HW AND CW
RISER DIAGRAM

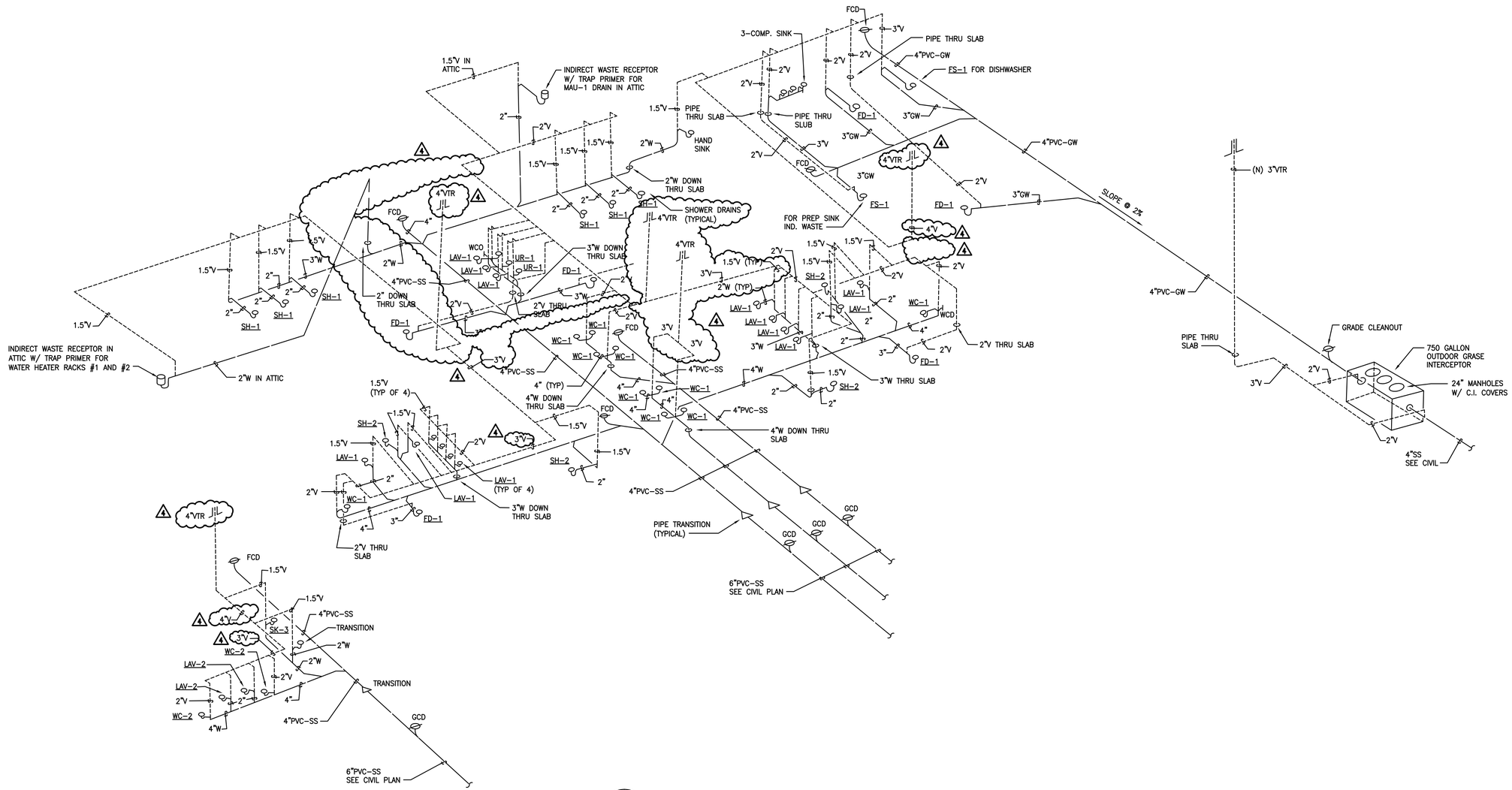
◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLDG SUBMITTAL 1
2	8.15.16	PLAN CHECK # 1 ADDENDUM # 3
3	8.25.16	ADDENDUM # 5
4	9.23.16	PLAN CHECK #2 ADDENDUM # 6

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: P3.7



1 WASTE AND VENT RISER DIAGRAM - WEST BET. COL. 1-7

N.T.S.

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◦ SHEET TITLE ◦

HW AND CW RISER DIAGRAM

◦ REVISIONS ◦

No.	Date	Notes
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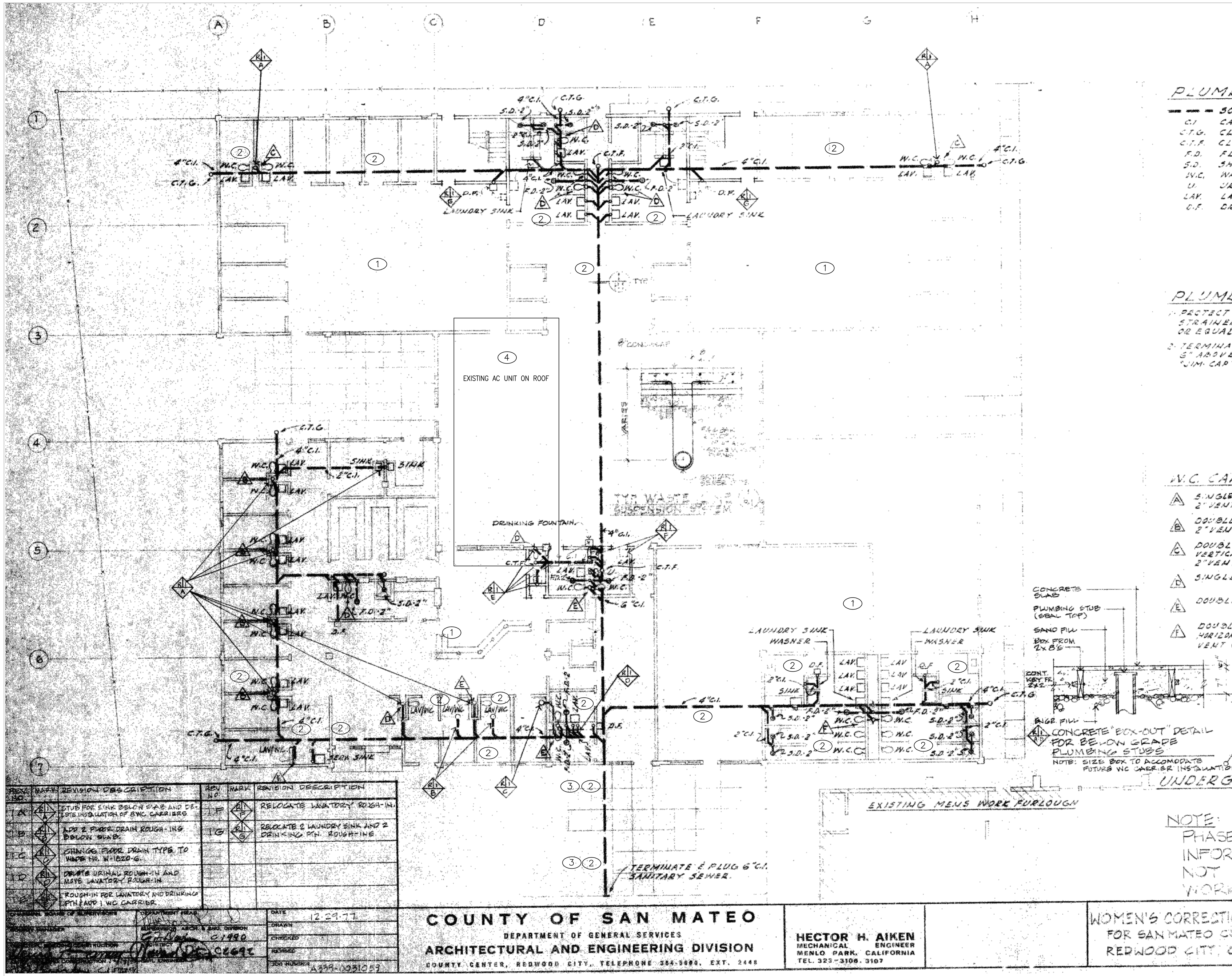
4	9.23.16	PLAN CHECK #2 ADDENDUM # 6

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: P3.8



1 Existing Jail Building Plumbing Plan - Demolition

NOT TO SCALE

KEYED SHEET NOTES:

1. THE PLAN SHOWN ON THIS SHEET IS TAKEN FROM AVAILABLE RECORD DRAWINGS DATED 1977 FOR THE EXISTING WOMEN'S JAIL BUILDING WHICH SHALL BE DEMOLISHED AS PART OF PHASE ONE OF THIS PROJECT. THE CONTRACTOR SHALL PERFORM THE NECESSARY SITE VISITS TO FIELD VERIFY EXISTING CONDITIONS AND SHALL NOT RELY ON THIS DRAWING FOR 100% ACCURATE AS BUILT CONDITIONS.

2. THE CONTRACTOR SHALL DEMOLISH AND REMOVE ALL EXISTING PLUMBING SYSTEMS INSIDE THE BUILDING ABOVE THE SLAB AND BELOW THE SLAB INCLUDING SANITARY WASTE AND VENT SYSTEMS, HOT AND COLD WATER SYSTEMS, WATER HEATERS, BOILERS, GAS PIPING, INDIRECT WASTE SYSTEMS, PLUMBING FIXTURES, PIPING SUPPORTS PIPING INSULATION, AND ASSOCIATED APPURTENANCES.

3. THE CONTRACTOR SHALL DEMOLISH AND REMOVE ALL EXISTING PLUMBING UNDERGROUND SITE UTILITIES TO THE BUILDING INCLUDING SEWER LINES, WATER LINES, WATER METER, STORM DRAIN LINES, AND GAS LINES. VERIFY CONDITIONS IN FIELD. REFER TO SHEET JDP–2.

4. THE MECHANICAL AND GENERAL CONTRACTOR SHALL DEMOLISH AND REMOVE AND DISPOSE OF EXISTING ROOFTOP AC UNIT. THE WORK WILL INVOLVE CRANE REMOVAL AND REFRIGERANT SYSTEM EVACUATION FOR THE PACKAGE UNIT. VERIFY CONDITIONS IN FIELD.

5. THE CONTRACTOR SHALL DEMOLISH AND REMOVE AND DISPOSE OF EXISTING ROOFTOP SOLAR WATER HEATING PANELS, NOT SHOWN ON THIS PLAN. THE WORK WILL ALSO INCLUDE DEMOLITION OF EXISTING SOLAR HOT WATER PIPING DISTRIBUTION SYSTEMS TO THE SHELTER BUILDING (ABOVE ROOF), THE EXISTING PIPING DISTRIBUTION TO THE MODULAR WORK FURLOUGH BUILDING (ABOVE ROOF AND UNDERGROUND) AND THE EXISTING SOLAR HW STORAGE TANK ON CONCRETE PAD ON SITE, AND ASSOCIATED SUPPORTS , PUMPS, CONTROLS, AND PIPE INSULATION. REFER TO SHEET JDP–2.

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

Jail Building
Plumbing Plan -
Demolition Work

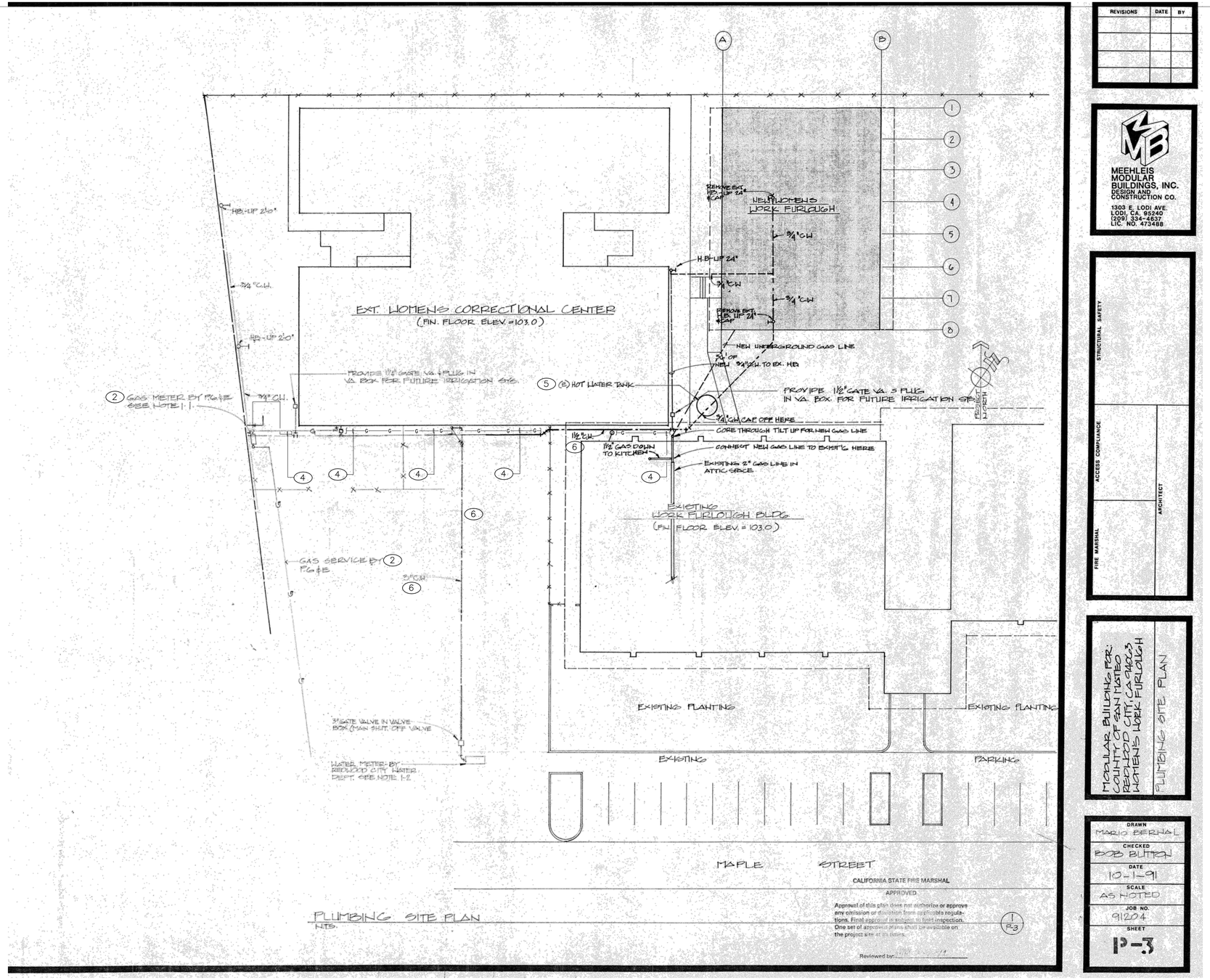
◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLDG SUBMITTAL 1
2	8.15.16	PLAN CHECK # 1 ADDENDUM # 3
3	8.25.16	ADDENDUM # 5
4	9.23.16	PLAN CHECK #2 ADDENDUM # 6

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: JDP-1 4



REVISIONS	DATE	BY

MEEHLEIS MODULAR BUILDINGS, INC.
DESIGN AND CONSTRUCTION CO.
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
LIC. NO. 473488

STRUCTURAL SAFETY
ACCESS COMPLIANCE
FIRE MARSHAL
ARCHITECT

MODULAR BUILDINGS FOR:
COUNTY OF SAN MATEO
REDWOOD CITY, CA 94063
WOMENS WORK FURLOUGH
PLUMBING SITE PLAN

DRAWN	MARIO BERNAL
CHECKED	BOB BUTTON
DATE	10-1-91
SCALE	AS NOTED
JOB NO.	91204
SHEET	P-3

KEYED SHEET NOTES:

1. THE PLAN SHOWN ON THIS SHEET IS TAKEN FROM AVAILABLE RECORD DRAWINGS DATED 1991 FOR THE EXISTING MODULAR WORK FURLOUGH BUILDING WHICH SHALL REMAIN. THE CONTRACTOR SHALL PERFORM THE NECESSARY SITE VISITS TO FIELD VERIFY EXISTING CONDITIONS AND SHALL NOT RELY ON THIS DRAWING FOR 100% ACCURATE AS BUILT CONDITIONS. ISSUED FOR REFERENCE ONLY.
2. THE CONTRACTOR SHALL DEMOLISH AND REMOVE 2-INCH GAS LINE FROM WOMENS JAIL BUILDING SERVING THE MODULAR WORK FURLOUGH BUILDING FROM THE RISER AT WOMENS JAIL BUILDING TO THE GAS METER MANIFOLD AREA. THE EXISTING GAS METER , WHICH SERVES THE WOMENS JAIL BLDG AND THE WOMEN'S JAIL BUILDING, SHALL REMAIN. THE EXISTING UNDERGROUND 2-INCH BRANCH GAS LINE FROM GAS METER TO WOMENS JAIL BUILDING SHALL BE DEMOLISHED , REMOVED, AND CAPPED OFF AT MANIFOLD. SEE SHEET SE-2 FOR EXISTING GAS LINES.
3. THE EXISTING 2-INCH EXISTING UNDERGROUND 2-INCH BRANCH GAS LINE FROM GAS METER TO WOMENS JAIL BUILDING ROOF, WHICH SERVES WORK FURLOUGH BUILDING, SHALL BE PARTIALLY DEMOLISHED AND REMOVED. THIS SHALL OCCUR AS PART OF PHASE ONE FOR PROJECT. SEE SHEET SE-2 FOR EXISTING GAS LINES.
4. AT THE END OF PHASE 1B OF PROJECT, THE CONTRACTOR SHALL RECONNECT THE MODULAR WORK FURLOUGH BLDG TO THE EXISTING GAS METER AND MANIFOLD WITH NEW 2-INCH UNDERGROUND GAS LINE AND THIS SHALL INTERCEPT THE EXISTING GAS LINE CLOSE TO MODULAR WORK FURLOUGH BLDG - VERIFY LOCATION IN FIELD.
5. DEMOLISH AND REMOVE EXISTING SOLAR HW STORAGE TANK ON SITE REFER TO SHEET JDP-1.
6. THE CONTRACTOR SHALL VERIFY SOURCE OF DOMESTIC WATER SERVICE TO THE EXISTING MODULAR WORK FURLOUGH BLDG. THE SERVICE SHALL REMAIN INTACT. IF THE EXISTING 3-INCH MAIN SERVING THE WOMEN'S JAIL BLDG IS ALSO SERVING THE WORK FURLOUGH MODULAR BLDG, THEN THE UNDERGROUND LINE AND EXISTING WATER METER SHALL REMAIN IN SERVICE.

1 Existing Modular Work Furlough Plumbing Site Plan - Demolition

NOT TO SCALE

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

Modular Work Furlough Bldg
Plumbing Site Plan - Demolition

◦ REVISIONS ◦

No.	Date	Notes
1	6.17.16	BLDG SUBMITTAL 1
2	8.15.16	PLAN CHECK # 1 ADDENDUM # 3
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◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: JDP-2 4

2 GENERAL NOTES

RE: ALL ELECTRICAL SHEETS

A. ALL ELECTRICAL EQUIPMENT SHALL BE CERTIFIED AND LISTED BY UL OR OTHER NATIONALLY ACCREDITED AGENCIES. ANY EQUIPMENT NOT LISTED SHALL BE FIELD TESTED AND CERTIFIED BY AN APPROVED TESTING AGENCY. PROJECT OWNER AND HIS DESIGN/CONSTRUCTION TEAM SHALL NOTIFY THE BUILDING DEPARTMENT AND ARRANGE FIELD TEST AND CERTIFICATION OF UNLISTED EQUIPMENT PRIOR TO REQUESTING FINAL INSPECTION BY THE BUILDING INSPECTOR.

B. TYPICAL CIRCUIT WIRING FROM THE PANELS SHALL BE THHN/THWN COPPER 75 DEGREE WIRE IN EMT CONDUIT. REFER TO SPEC 16000, EMT CONDUIT SHALL BE SUPPORTED AT 10'–0" ON CENTER AND WITHIN 3"–0" OF EACH JUNCTION.

C. UNDERGROUND CONDUIT STUB–UPS:

1. STUB–UP AND CAP UNDERSLAB CONDUITS AT 6" ABOVE FINISHED FLOOR.
2. VERIFY EXACT LOCATIONS OF ALL OUTLETS WITH ARCHITECT AND OWNER PRIOR TO ROUGH–IN.
3. CONDUIT STUB–UPS AT EQUIPMENT SHALL BE PROVIDED WITH AN APPROVED GROUNDING HUB OR LUG.
4. CONDUIT STUB–UPS AT WALLS SHALL BE A MAXIMUM OF 3" CLEAR OF PROPOSED WALL LOCATIONS.
5. CONDUIT STUB–UPS WITHIN PROPOSED WALLS SHALL BE CENTERED WITHIN WALL SPACE.
6. PROVIDE A PERMANENT LABEL AT ALL STUB–UPS INDICATING LOCATION OF STUB–OUT OR TERMINATION AT THE OTHER END. PROVIDE LABEL AT BOTH ENDS OF CONDUIT RUN. PROVIDE PULL ROPE IN ALL EMPTY CONDUITS.
7. WRAP ALL METAL PORTIONS OF RIGID GALVANIZED STEEL CONDUIT RISERS WITH CORROSIVE RESISTANCE TAPE WHERE EXTENDED BELOW GRADE. PROVIDE SCOTCH #50 TAPE OR APPROVED EQUIVALENT.

D. VERIFY LOCATION OF OUTLETS AND SWITCHES IN FINISHED ROOMS WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISH. WHEN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, SUSPENDED CEILINGS AND THE LIKE. CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT ANY EXPENSE TO OWNER.

E. THIS SHEET INDICATES A STANDARD LEGEND SHEET. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET, AND NOT ON THE PROJECT DRAWINGS.

F. LINES OR OTHER SERVICES THAT ARE DAMAGED AS A RESULT OF THIS WORK SHALL PROMPTLY BE REPAIRED AT NO EXPENSE TO THE OWNER AND LANDLORD AND TO THE COMPLETE SATISFACTION OF THE OWNER AND LANDLORD.

G. REFER TO SPECIFICATION SECTION FOR SEISMIC BRACING OF NON–STRUCTURAL ELEMENTS.

H. REFER TO SPECIFICATION SECTION FOR THE PREPARATION AND SUBMITTAL REQUIREMENTS OF COORDINATION DRAWINGS.

I. ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2011 NATIONAL ELECTRICAL CODE AS AMENDED BY THE 2013 CALIFORNIA ELECTRICAL CODE.

J. ALL PANELBOARDS WITH BRANCH CIRCUITS SERVING THE SAME VICINITY SHALL BE BONDED TOGETHER WITH MINIMUM #10 INSULATED CONTINUOUS COPPER CONDUCTOR WHERE MORE THAN TWO PANELS SERVE THE SAME LOCATION PER 517–14.

K. PLANS ARE PREPARED WITH REQUIRED BRANCH CIRCUITS INDICATED BY CIRCUIT NUMBER. PROVIDE AND INSTALL ALL CONDUITS, OPERABLE SYSTEM INCLUDING HOME RUN (WHETHER OR NOT SHOWN). BRANCH CIRCUIT INSTALLATION SHALL COMPLY WITH SPECIFICATIONS AND N.E.C. (2011). PROVIDE #10 WIRE FOR 120 VOLT CIRCUIT RUNS OVER 125 FT.

L. THE UNGROUNDED AND NEUTRAL CONDUCTORS OF A MULTI WIRE BRANCH CIRCUIT MUST BE GROUP TOGETHER IN ATLEAST ONE LOCATION BY WIRE TIES OR SIMILAR MEANS AT THE POINT OF ORIGINATION PER NEC 210.4.

M. EACH MULTI WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS, AT THE LOCATION WHERE THE BRANCH OR CIRCUIT ORIGINATES PER 210.4B.

OUTLETS:

1. ALL BATHROOM, OUTDOOR, GARAGE RECEPTACLES, LAUNDRY AND KITCHEN COUNTER RECEPTACLES WITHIN SIX FEET OF A SINK ARE TO BE GFCI PROTECTED.
2. WALL MOUNTED OUTLETS DRAWN IN A LINE, OUT FROM THE WALL, SHALL BE CENTERED ABOVE EACH OTHER, AT SCHEDULED HEIGHTS. MOUNT ALL BOXES ON SAME SIDE OF STUD. USE BAR HANGERS OR SCRAP BLOCKS TO CENTER THE BOXES TO EACH OTHER.
3. ELECTRICAL OUTLETS LOCATED ON OPPOSITE SIDES OF ALL FIRE–RATED PARTY WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF AT LEAST 24 INCHES.
4. WHEN KITCHEN OR BATH OUTLETS AT PARTY WALLS CANNOT BE MOVED TO THE NEXT STUD BAY, FILL THE STUD BAY (OR PORTION OF) WITH FIRE RETARDANT MATERIAL SATISFACTORY TO LOCAL BUILDING / FIRE INSPECTION.
5. PROVIDE A W.P. RECEPTACLE NO FARTHER THAN 25 FEET FROM ANY OUTDOOR EQUIPMENT. SIMILARLY, PROVIDE A STANDARD RECEPTACLE FOR EQUIPMENT IN ATTICS OR MECHANICAL ROOMS.
6. PROVIDE DISCONNECTING MEANS FOR ALL EQUIPMENT REQUIRING SUCH.
7. OUTLET BOXES LOCATED IN 1 HOUR RATED WALLS AND CEILINGS SHALL BE STEEL OR 1 HOUR FIRE RATED PLASTIC AND SHALL HAVE ANNULAR SPACE SEALED WITH 1 HR RATED FIRE STOPPING. PER NEC 300–21 AND UBC–709, 710.
8. ALL PLASTIC CONDUIT OR CABLE IN 1 HR WALLS SHALL HAVE A F RATING.
9. ALL DUPLEX RECEPTACLES IN ALL INHABITABLE ROOMS SHALL BE PROTECTED WITH ARC–FAULT CIRCUIT INTERRUPTERS PER CEC 210–12 AND SHALL BE TAMPERPROOF WHERE REQUIRED BY CEC 406.10.

LIGHTING:

1. ALL WALL MOUNTED FIXTURES ARE TO BE LOCATED AT HEIGHTS ESTABLISHED BY ARCHITECT. HEIGHTS ARE TO BE SET AFTER SUBMITTALS ARE APPROVED. (FINAL FIXTURES SIZES ARE KNOWN.)
2. ALL SITE AND BUILDING EXTERIOR FIXTURES ARE TO BE CONTROLLED BY A TIME SWITCH THAT HAS A PHOTOCELL OVERRIDE. EACH FIXTURE TYPE SHALL BE PROVIDED A TIME SWITCH POLE. TIME SWITCH POLES CAN BE COMBINED AT HOUSE PANEL CIRCUITS TO FILL AND BALANCE CIRCUITS. ALLOW ONE SPARE TIME SWITCH POLE PER PANEL. (2)

COMMISIONING AND ACCEPTANCE TESTING:

THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL COMMISSIONING THIRD PARTY AGENT OR CONSULTANT, CERTIFIED TO PERFORM THE MEP SYSTEMS COMMISSIONING AND TO PROVIDE A REPORT FOR ALL FUNCTIONAL PEFORMANCE TESTS COMPLETED AS PART OF THE ACCEPTANCE TEST PROCESS. THE LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIANS SHALL BE CERTIFIED THRU AN APPROVED TRAINING PROGRAM, AND REGISTERED WITHIN THE STATE OF CALIFORNIA. BUILDING COMMISSIONING REQUIREMENTS SHALL BE MET AS OUTLINED IN THE 2013 TITLE 24 STANDARDS, SECTION 120.8. THE FOLLOWING SYSTEMS MUST UNDERGO ACCEPTANCE TESTING:

1. AUTOMATIC DAYLIGHTING CONTROLS
2. AUTOMATIC TIME SWITCH CONTROLS
3. OCCUPANCY SENSORS
4. OUTDOOR LIGHTING SHUTOFF CONTROLS
5. OUTDOOR MOTION SENSORS
6. MULTILEVEL DIMMING COTNROLS
7. PLUG LOAD CONTROLLERS
8. DEMAND RESPONSE (DR) CONTROLS

DEMAND RESPONSE LIGHTING CONTROLS:

THE FACILITY MUST BE ABLE TO RESPOND TO A DEMAND RESPONSE SIGNAL FROM THE LOCAL UTILITY OR OTHER ENTITY SO THAT TOTL ENERGY USE FOR LIGHTING CAN DROP TO A LEVEL AT LEAST 15% BELOW BUILDING'S MAXIMUM TOTAL LIGHTING POWER. THE LIGHTING AUTOMATED CONTROLS SHALL BE COMPATIBLE WITH THE LOCAL UTILITY'S DR PROTOCOL, AND LIGHTING SHALL BE REDUCED IN A MANNER CONSISTENT WITH UNIFORM ILLUMINATION LEVELS AS LISTED IN THE TITLE 24 STANDARDS, TABLE 130–A.

1 LEGEND AND ABBREVIATIONS (1)

RE: ALL ELECTRICAL SHEETS

SIGNAL

SYMBOL	DESCRIPTION
TP	TELEPHONE OUTLET: +18" AFF U.O.N.
D	DATA OUTLET: +18" AFF U.O.N. (SINGLE, DOUBLE)
TP/D	TELEPHONE/DATA OUTLETS IN SAME OUTLET BOX
TV	TELEVISION OUTLET: +18" AFF U.O.N.
DS	MAGNETIC DOOR SWITCH

(1)

SINGLE LINE DIAGRAM

SYMBOL	DESCRIPTION
M	METER SOCKET
M	TRANSFORMER RATED METER SOCKET AND CT
N	NEUTRAL BUS
G	GROUND BUS
	CIRCUIT BREAKER
	FUSIBLE SWITCH

FIRE ALARM

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL
F	PULL STATION +45" U.O.N.
F	FIRE ALARM HORN +80" AFF U.O.N.
F	FIRE ALARM STROBE LIGHT +80" AFF U.O.N.
F	FIRE ALARM STROBE/HORN +80" AFF U.O.N.
DD DS	DUCT SMOKE DETECTOR–S.M.D. FOR EXACT LOCATION
SD	CLNG AREA SMOKE DETECTOR, 120V WITH BATTERY BACK–UP (2)
H	HEAT DETECTOR
ANN	FIRE ALARM ANNUNCIATOR
FS	FIRE SPRINKLER FLOW SWITCH
SS	FIRE SPRINKLER SUPERVISORY SWITCH OR POST INDICATOR
FSD	FIRE SMOKE DAMPER
CO	CARBON MONOXIDE DETECTOR, 120V WITH BATTERY BACK–UP (2)

NOTE: ALL DEVICE AND OUTLET MOUNTING HEIGHTS ARE MEASURED FROM THE CENTER OF OUTLETS

(1) PROVIDE 4"X4" SQUARE X 2 1/4" DEEP OUTLET AND RUN 3/4" CONDUIT AND PULL WIRE TO ACCESSIBLE CEILING SPACE (WIRING BY OTHERS)

EQUIPMENT

SYMBOL	DESCRIPTION
	PANELBOARD / TERMINAL CABINET – SEE SCHEDULE
	PANELBOARD – SEE SCHEDULE
	TERMINAL CABINET, SURFACE MOUNTED SIZE & TYPE AS NOTED
	MAIN SWITCHBOARD OR MOTOR CONTROL CENTER, SEE ONE LINE DIAGRAM
	TELEPHONE TERMINAL BOARD: 4' x 8' x 3/4" PLYWOOD OR AS NOTED w/ DOUBLE DUPLEX RECEPT. & 1 #6 GND
1	MOTOR, N.I.E.S. CONNECT AS REQ., NUMBER INDICATES HP
X / XX	DETAIL DESIGNATION; TOP NUMBER INDICATES DETAIL, BOTTOM LETTER/NUMBER INDICATES SHEET
AC	MECHANICAL AND PLUMBING EQUIPMENT DESIGNATION
	CEILING EXHAUST FAN, N.I.E.S. CONNECTION BY ELECTRICAL CONTRACTOR
F	COMBINATION STARTER/DISCONNECT, FUSED. SIZE AND TYPE AS REQUIRED OR NOTED
F	FUSED DISCONNECT SWITCH, SIZE PER UNIT LABEL
	NON–FUSED DISCONNECT SWITCH
	CONTROL EQUIPMENT
	CIRCUIT BREAKER DISCONNECT SWITCH
	DISTRIBUTION TRANSFORMER, MOUNTING AS NOTED
	BELL, TYPE AS NOTED ON PLANS
	LOW VOLTAGE BUZZER
	LOW VOLTAGE PUSH BUTTON
XX	INDICATES KEYED NOTES THIS SHEET
T	THERMOSTAT, NIES, INSTALL & CONNECT AS REQUIRED
SH	CIRCUIT BREAKER SHUNT TRIP MODULE
DS	DOOR LIMIT SWITCH

LIGHTING

SYMBOL	DESCRIPTION
	SURFACE MOUNT FLUORESCENT STRIP LIGHT.
	SURFACE MOUNTED FLUORESCENT FIXTURE, (SUBSCRIPT INDICATES SWITCHING CONTROL)
	2x4 RECESSED FLUORESCENT FIXTURE (SUBSCRIPT INDICATES SWITCHING CONTROL)
	POWER TRACK WITH DECORATIVE SHADE TRACK HEADS
	FLUORESCENT STRIP FIXTURE
	INCANDESCENT OR HID FIXTURE
	WALL MOUNTED INCANDESCENT OR HID FIXTURE
	WALL MOUNTED FLUORESCENT FIXTURE
	SURFACE MOUNTED FLUORESCENT WRAPAROUND
	FIXTURE WITH EMERGENCY BALLAST.
	DUAL LAMP EMERGENCY LIGHTING BATTERY UNIT ON WALL OR COLUMN MOUNT. (SEE FIXTURE SCHEDULE TYPE "EM1")
	EXIT SIGN – DIRECTIONAL ARROWS AS INDICATED
	FIXTURE TAG DESIGNATION, SEE FIXTURE SCHEDULE
	PHOTO ELECTRIC CONTROL
$	SINGLE POLE TOGGLE SWITCH
$2	TWO POLE TOGGLE SWITCH
$3	THREE–WAY TOGGLE SWITCH
$K	KEY OPERATED SINGLE POLE TOGGLE SWITCH
$HP	MOTOR RATED SINGLE POLE SWITCH, ❶ UNIT UNO
$P	SINGLE POLE TOGGLE WITH PILOT LIGHT
M $OS	MOTION DETECTOR AND BOX, CEILING; WALL MOUNTED, FURNISHED INSTALLED & CONNECTED BY ELECTRICAL CONTRACTOR, LOWER CASE LETTER INDICATES CIRCUIT OR FIXTURE CONTROLLED BY DETECTOR. AIM ADJUSTABLE SENSORS PER DIRECTIONAL ARROWS WHERE INDICATED.
$	LV OERRIDE SWITCH
$D	DIMMER SWITCH AND BOX
$D/OS	DIMMER/OCCUPANCY SENSOR COMBO SWITCH AND BOX
	DAYLIT LIGHT PHOTOSENSOR WITH POWER PACK AND BOX

OUTLETS

SYMBOL	DESCRIPTION
C	RECEPTACLE: DUPLEX 20 AMP, 3WG,125V, NEMA 5–20R WALL MOUNTED +18" AFF U.O.N. (FOR RECEPTACLES SERVING EQUIPMENT, REFER TO EQUIPMENT SCHEDULE, FOR OUTLETS ABOVE COUNTER, VERIFY MNTG HEIGHT)
	AS ⊖ BUT 4–PLEX
C	AS ⊖ BUT GROUND FAULT PROTECTIVE. (SUFFIX C: INDICATES ABOVE COUNTER OR SINK – VERIFY HEIGHT; D: DEDICATED)
	120V OR 240V SPECIAL APPLIANCE OR EQUIPMENT RECEPTACLE (VERIFY FOR NEMA TYPE AND EXACT LOCATION)
J	JUNCTION BOX, WALL MOUNTED/RECESSED, TYPE AS REQ'D.
J	JUNCTION BOX, SIZE & TYPE AS INDICATED OR AS REQ'D.
J	JUNCTION BOX, FLOOR MOUNTED, SIZE & TYPE AS INDICATED OR AS REQ'D.
J	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	120V OR 240V SPECIAL APPLIANCE OR EQUIPMENT RECEPTACLE (VERIFY FOR NEMA TYPE AND EXACT LOCATION)
	PRE–MANUFACTURED INTERCONNECT CABLE
	CONNECTION TO EQUIPMENT BY ELECTRICAL CONTRACTOR
D	CEILING MOUNTED DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE FLUSH w/ FINISHED FLOOR NEMA 5–20R.
WM	PLUGMOLD MULTI–OUTLET ASSEMBLY, WIREMOLD OR EQUAL W/ OUTLETS AS SHOWN.
	EQUIPMENT CONNECTION

WIRING

SYMBOL	DESCRIPTION
	CONDUIT RUN CONCEALED BELOW FLOOR OR FINISHED GRADE SAWCUT EXISTING SLAB AND PATCH EXISTING CONCRETE TO MATCH IN LIKE AND KIND AFTER INSTALLATION OF CONDUITS.
	CONDUIT CONCEALED IN CEILING OR WALL
	HOMERUN TO RESPECTIVE PANEL OR TERMINAL CABINET– OVERHEAD.
	HOMERUN TO RESPECTIVE PANEL OR TERMINAL CABINET– UNDERGROUND, MAY RUN TO NEAREST WALL OR COLUMN WHERE CONDUIT CAN BE CONCEALED AND RUN OVERHEAD TYPICAL FOR POWER, TEL., LV, SIGNAL, ETC.
	CONDUIT RISER – UP
	CONDUIT RISER – DOWN
X	EXISTING FEEDER TO REMAIN

BRANCH CIRCUIT WITHOUT FURTHER DESIGNATION INDICATES INDICATES A 2 #12 WIRE CIRCUIT
ADDITIONAL NO. OF #12: —|—, 3 #12: —|||—, 2 #12 & 1 #12 GND: —||||—, 5 #12 & 1 #12 GND: ETC. OTHER WIRE SIZES: —|||— #10 #12, 2 #10 & 1 #12 GND: —|||— #4 #8, 3 #4 & 1 #8 GND: ETC.
—|— INSULATED/ISOLATED GROUND

ABBREVIATIONS

MT	EMPTY CONDUIT WITH PULLSTRING
EL	EMERGENCY LIGHT
NL	NIGHT LIGHT
(E)	EXISTING
(R)	RELOCATED
(M)	MODIFIED
C	CONDUIT
WP	WEATHERPROOF
EOL	INDICATES DEVICE w/ END–OF–LINE RESISTOR
NIES	NOT IN ELECTRICAL SECTION OF THESE PLANS & SPECIFICATIONS
UNO	UNLESS NOTED OTHERWISE
PFB	PROVIDE FOR FUTURE BREAKER
RE:	REFERENCE, REFER TO AND COORDINATE WITH

NOTE: SYMBOLS INDICATED ABOVE MAY NOT NECESSARILY APPEAR AS PART OF THESE DRAWINGS IF NOT REQUIRED.

5 INDEX OF DRAWINGS

FIRE ALARM SYSTEM IS DEFERRED APPROVAL.

ARCHITECT OR ENGINEER OF RECORD SHOULD REVIEW SUBMITTAL DOCUMENTS FOR PORTIONS OF THE WORK THAT ARE INDICATED AS DEFERRED AND PROVIDE NOTATION THAT THE SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED BY THE A/E FOR CONFORMANCE WITH DESIGN INTENT PRIOR TO SUBMITTING TO THE BUILDING DIVISION FOR APPROVAL. (CBC 106.3.5)

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

Legend, general notes

◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLDG SUBMITTAL 1
2	8.15.16	PLAN CHECK # 1 ADDENDUM # 3
3	8.25.16	ADDENDUM # 5
4	9.23.16	PLAN CHECK #2 ADDENDUM # 6

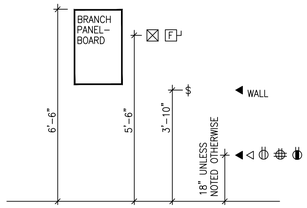
◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: E0.1A

NOTES:

1. MOUNTING HEIGHTS OF ALL ELECTRICAL EQUIPMENT SHALL CONFORM TO ADA REQUIREMENTS.
2. ALL CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF THE JUNCTION BOX OR DEVICE BOX NOR LESS THAN 15" MEASURED TO THE BOTTOM OF THE JUNCTION OR DEVICE BOX ABOVE THE FINISH FLOOR.
3. ALL RECEPTACLES OUTLETS ON BRANCH CIRCUITS OF MORE THAN 30-AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING NOR LESS THAN 15" MEASURED TO THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING ABOVE THE FINISH FLOOR.



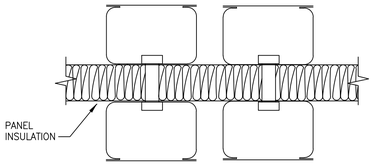
4 STANDARD MOUNTING HEIGHTS
N.T.S.
RE: ALL ELECTRICAL DRAWINGS

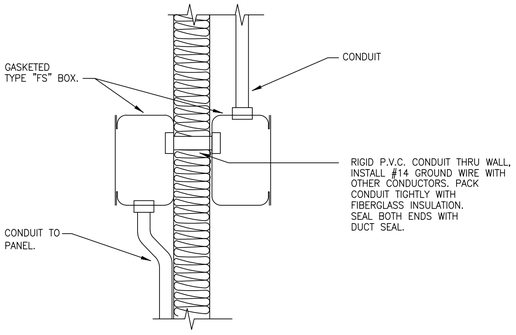
3 FIXTURE SCHEDULE NOTES
RE: E0.1-3

1. OWNER TO APPROVE ALL FIXTURE SUBMITTALS PRIOR TO PURCHASE. PROVIDE ALL CUT SHEETS WITH CORRESPONDING TAG AND MODEL NUMBERS AND SHOW EXPLICITLY ALL STYLES, FINISHES AND COLORS-OTHERWISE CONTRACTOR WILL BEAR ALL RESTOCKING AND RELATED COSTS TO OBTAIN THE PROPER FIXTURE.
2. MANUFACTURER AND DESCRIPTION NOTED ARE TO ESTABLISH MINIMUM STANDARDS FOR FIXTURES. EQUIVALENT WILL BE REVIEWED BASED ON APPEARANCE, CONSTRUCTION AND PHOTOMETRICS. DESCRIPTION SHALL PREVAIL OVER MANUFACTURER CATALOG NUMBERS.
3. FINISH MATERIALS AND COLOR OF ALL LIGHT FIXTURES SHALL BE VERIFIED WITH ARCHITECT AS PART OF SHOP DRAWINGS SUBMITTAL PRIOR TO ORDERING. PROVIDE SAMPLE COLOR CHIPS AND/OR SAMPLES AS REQUESTED.
4. PRISMATIC DIFFUSER LENSES SHALL BE 100% VIRGIN ACRYLIC, MINIMUM 0.125" THICKNESS, PATTERN #12A UNLESS OTHERWISE NOTED.
5. ALL FIXTURES SHALL HAVE A MINIMUM OF AN UNCONDITIONAL TWO YEAR WARRANTY ON ALL BALLASTS (PARTS AND LABOR).
6. ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY FOR THE SPECIFIC APPLICATION IN WHICH USED. IT SHALL BE INSTALLED AS PER LISTING OOR LABELING.
7. VERIFY EXACT MOUNTING HEIGHTS AND REFERENCE HEIGHTS (I.E., BOTTOM OF FIXTURE, CENTER LINE OF OUTLET BOX, ETC.) WITH ARCHITECT PRIOR TO ROUGH-IN.
8. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURES IN CEILING.
9. SURFACE MOUNTED FIXTURES SHALL BE SECURED TO BUILDING STRUCTURE - TOGGLE BOLTS ARE NOT ACCEPTABLE.
10. ALL PENDANT MOUNTED FIXTURES SHALL BE INSTALLED WITH CANOPIES AND STEMS SUCH THAT THEY SWING A MINIMUM OF 45° IN ALL DIRECTIONS WITHOUT HITTING ANY OBSTRUCTIONS. IF THERE ARE OBSTRUCTIONS WITHIN THE 45° SWING AREA, PROVIDE SWAY BRACING TO RESTRICT ANY MOVEMENT.
11. PROVIDE SEISMIC BRACING FOR ALL FIXTURES AS REQUIRED BY STATE OF CALIFORNIA BUILDING CODES AND LOCAL JURISDICTION.
12. SURFACE MOUNTED FIXTURES SHALL CLEAR SPRINKLER HEADS BY 12" MINIMUM.
13. LED SHALL BE 4000K COLOR TEMPERATURE

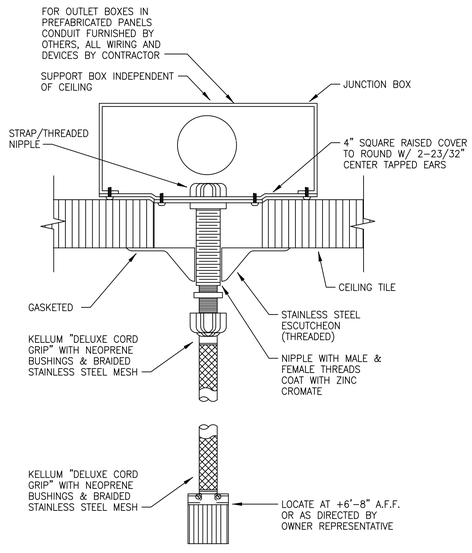
2 FIXTURE SCHEDULE
RE: E2.2

TAG	SYMBOL	DESCRIPTION	MANUFACTURER AND CATALOG #	LAMPS	FIXTURE WATT	VOLT	REMARKS
A		RECESSED 2'X2' LED INDIRECT WITH PERFORATED CENTER BASKET 4000K	LITHONIA 2BLT2-40L-ADSM-EZ1-LP840 HE WILLIAMS	30w LED	30w	120	
A1		SAME AS A EXCEPT WITH 90 CRI COLOR TEMPERATURE	LITHONIA 2BLT2-40L-ADSM-EZ1LP940 HE WILLIAMS	30w LED	30w	120	USE IN HOUSING BED AREA
B		SURF MOUNT 1'X8' LED	FAILSAFE HVL8-8-LD4-2STD-35-UNV-0-EDD1	73w LED	73w	120	
B1		SURF MOUNT 1'X2' LED	FAILSAFE HVL8-2-LD4-1LO-35-UNV-0-EDD1	26.2w LED	26.2w	120	
B2		SAME AS "B1" EXCEPT 1'x4'	FAILSAFE HVL8-4-LD4-1STD-35-UNV-0-EDD1	34.3w LED	34.3w	120	
C1		SURF MOUNT 2' LED WALL LIGHT, COLOR TO BE SELECTED BY ARCHITECT	VISA LIGHTING CV1800 LNW DIM 120	10w LED	10w	120	LOCATE ABOVE MIRROR
C2		SAME AS "C1" EXCEPT 4'	VISA LIGHTING CV1804 LNW DIM 120	28w LED	28w	120	LOCATE ABOVE MIRROR
C3		SAME AS "C1" EXCEPT 5'	VISA LIGHTING CV1806 LNW DIM 120	36w LED	36w	120	LOCATE ABOVE MIRROR
C4		SAME AS "C1" EXCEPT 3'	VISA LIGHTING CV1802 LNW DIM 120	24w LED	24w	120	LOCATE ABOVE MIRROR
K1		SURF MOUNT 1' STRIP LED, SPLASH PROOF	PARAMOUNT SC4-1-1-3-120	10w/LF LED	10w	120	
K2		SAME AS "B1" EXCEPT 4' STRIP	PARAMOUNT SC4-1-4-3-120	10w/LF LED	40w	120	
E1		UNIVERSAL MOUNT LED EXIT SIGN EMERGENCY BATTERY PACK 90 MINUTES MINIMUM.	TBD	PROVIDED w/ FIXT		120	
X		EXTERIOR LED WALL PACK	GARDCO 104L-16L-530NG1-4-120-BK	30W LED MAX		120	
X2		EXTERIOR LED DOWNLIGHT, WET LOCATION LABEL	WILLIAMS L60-L20C-840-26	26W LED		120	
S1		PARKING LOT LUMINAIRE SINGLE HEAD ALUMINUM HOUSING, ARM MOUNTED, TYPE 5 DISTRIBUTION ALUMINUM REFLECTOR, INTEGRAL LED DRIVER, TEMPERED GLASS LENS. UL WET LOCATION LABEL.. 4" STRAIGHT SQUARE STEEL POLE FACTORY PRIMED AND PAINTED, BLACK ANODIZED 10'-0"	GARDCO P21 MR1 A2-1-5W 55LA-NW-208-BLP-BD	1-55 WATT LED 4000K 70 CRI	208		SEE 5/SE1
S1A		SIMILAR TO 'S1' EXCEPT TWIN HEAD. TYPE 3 DISTRIBUTION	GARDCO P21 MR1 A2-1-3 55LA-NW-208-BLP-BD	1-55W LED 4000K 70 CRI	208		SEE 5/SE1
S2		SIMILAR TO 'SA' EXCEPT TWIN HEAD. 4" STRAIGHT SQUARE STEEL POLE FACTORY PRIMED AND PAINTED, BLACK ANODIZED 10'-0"	GARDCO P21 MR1 A2-2-5W 55LA-NW-208-BLP-BD	2-55 WATT LED 4000K 70 CRI	208		SEE 5/SE1
S3		EXTERIOR LED BOLLARD, WET LOCATION LABEL	GARDCO BRM-830 43 MR NW 360 UNIV-BLP	41w LED	120		
S4		EXTERIOR LED TRELLIS LIGHT, WET LOCATION LABEL	BRUCK 105015 BK	9.6w LED	120		
S5		EXTERIOR LED STEP LIGHT, WET LOCATION LABEL	BRUCK 138022-BN-3-HL	2.6w LED	120		





2 PENETRATION THRU FREEZER/COOLER WALL
N.T.S.
RE: E2.1



1 CEILING PENETRATION DETAIL
N.T.S.
RE: E2,1

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

LCP, lighting fixture schedule

◦ REVISIONS ◦

No.	Date	Notes
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2	8.15.16	PLAN CHECK # 1 ADDENDUM # 3
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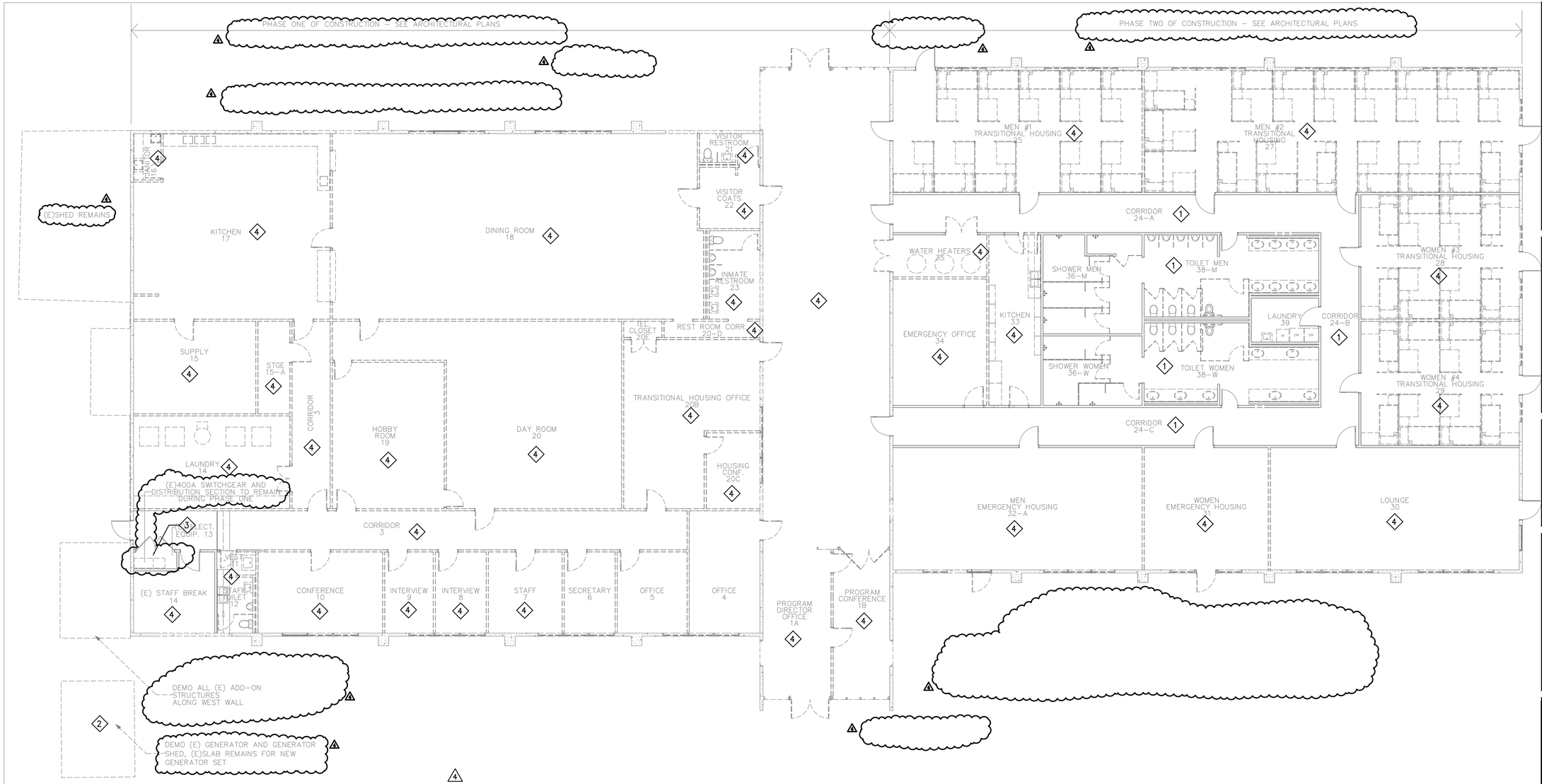
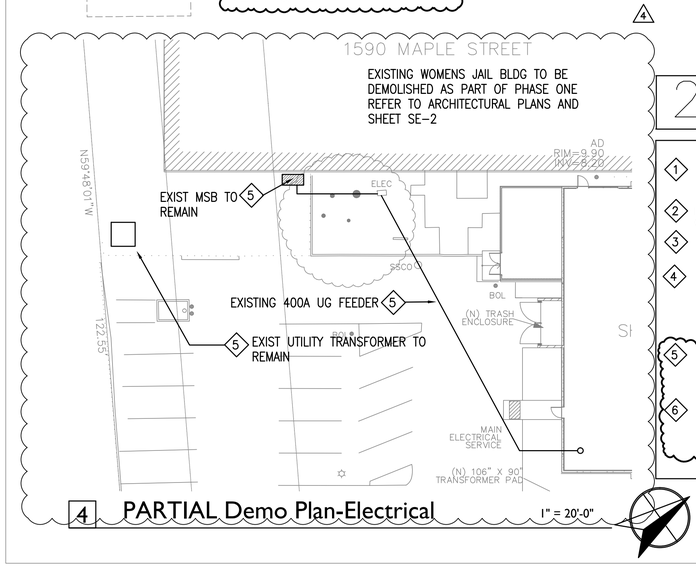
◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: E0.1B





4 PARTIAL Demo Plan-Electrical 1" = 20'-0"

1 Demo Plan-Electrical 1/8" = 1'-0"

2 KEYED NOTES
RE: E2.1

1. DISCONNECT AND REMOVE ALL OVERHEAD ELECTRICAL FOR NEW CEILING. REMOVE ALL BOXES, OUTLETS, DEVICES, FITTINGS, CONDUIT AND WIRE BACK TO PANELBOARD OR LAST REMAINING OUTLET.
2. DISCONNECT ELECTRICAL TO (E) GENERATOR REMOVE ALL DEVICES, OUTLETS CONDUIT AND WIRE BACK TO PANELBOARD.
3. EXISTING ELECTRICAL TO BE REMOVED DURING FINAL PHASE OF CONSTRUCTION. COORDINATE WITH OWNER'S REPRESENTATIVE AND GENERAL CONTRACTOR.
4. COMPLETELY REMOVE ALL ELECTRICAL FIXTURES, DEVICES, CONDUIT, AND WIRING IN THIS AREA (EXCEPT AS NOTED) TO ALLOW FOR NEW CONSTRUCTION. MAINTAIN CIRCUITING TO DOWNSTREAM CIRCUITS THAT ARE TO REMAIN. RELOCATE, REPLACE OR EXTEND RACEWAYS TO DOWNSTREAM CIRCUITS AS REQUIRED TO ALLOW CONTINUED USE OF THE SAME. RETAIN ALL WIRING TO MECHANICAL AND ELECTRICAL EQUIPMENT THAT IS TO REMAIN.
5. EXISTING 1000A SERVICE SWITCHBOARD WITH NEMA 3R ENCLOSIRE TO REMAIN DURING PHASE ONE, WHILE WOMENS JAIL BUILDING IS DEMOLISHED. THE SERVICE SHALL REMAIN INTACT AND EXISTING UNDERGROUND 400A FEEDER SERVING THE EXISTING SHELTER BLDG SHALL REMAIN INTACT DURING PHASE ONE.
6. EXISTING 350A FEEDER FROM (E)MSB SERVING EXISTING MODULAR WORK FURLOUGH BLDG TO BE REWIRED AND REROUTED AS PART OF PHASE 1B AFTER EXISTING WOMENS JAIL BLDG IS DEMOLISHED. EXISTING FEEDER AND 4-INCH CONDUIT RUNS ABOVE ROOF OF WOMENS JAIL BLDG AND NEEDS TO BE REROUTED UNDERGROUND. SEE SHEET SE-2

3 DEMO NOTES
RE: E2.1 DEMO PLAN

A THESE DEMOLITION DRAWINGS ARE INTENDED TO ASSIST THE ELECTRICAL CONTRACTOR IN ESTABLISHING AREAS REQUIRING DISCONNECTION, REMOVAL, OR RELOCATION OF ELECTRICAL EQUIPMENT, OUTLETS, WIRING, DEVICES, FIXTURES, ETC. AND DO NOT INDICATE ALL OUTLETS, EXACT QUANTITIES OR EXTENT OF DEMOLITION AND RECONNECTION WHICH MAY BE REQUIRED. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOBSITE AND THOROUGHLY EXAMINE ALL REQUIRING DEMOLITION WORK AND INCLUDE ALL LABOR AND INCIDENTALS WHICH MAY BE NECESSARY TO PERFORM DEMOLITION RECONNECTION AND TEMPORARY POWER CONNECTIONS IN HIS BID.

B DEMOLITION WORK SHALL BE ACCOMPLISHED IN PHASES THROUGHOUT THE CONSTRUCTION PERIOD. ALL DEMOLITION WORK SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND OWNER. THE ELECTRICAL CONTRACTOR SHALL OBTAIN THE DEMOLITION SCHEDULE FROM THE GENERAL CONTRACTOR AND MAKE ALLOWANCES IN HIS BID FOR A PHASED DEMOLITION SCHEDULE, INSTALLATION AND/OR RELOCATION OF NEW OR EXISTING FIXTURES AND EQUIPMENT WHICH MAY REQUIRE IN BID TO ALLOW FOR AFTER HOURS CONSTRUCTION WORK AS DIRECTED BY THE GENERAL CONTRACTOR. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR OVERTIME.

C THE ELECTRICAL CONTRACTOR SHALL REMOVE FROM THE PREMISES AND DISPOSE OF ALL ELECTRICAL DEMOLISHED EQUIPMENT, FIXTURES, ETC. VERIFY LOCAL AGENCY REQUIREMENTS PRIOR TO BIDDING.

D THE FACILITY SHALL REMAIN OPEN DURING NORMAL BUSINESS HOURS THROUGHOUT THE DURATION OF THE CONSTRUCTION PROCESS. STORE LIGHTING AND POWER MUST BE MAINTAINED DURING NORMAL STORE OPERATING HOURS. SCHEDULE ANY POWER OUTAGES WITH SAFEWAY (7) SEVEN DAYS IN ADVANCE AND RECEIVE APPROVAL PRIOR TO PROCEEDING. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUITY IN ELECTRICAL SEVICE AND MAKE ALLOWONCES IN HIS BID FOR TEMPORARY WIRING, CONNECTIONS AND POWER AS REQUIRED TO MINIMIZE DISRUPTION OF SERVICES. COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR AND OWNER.

E COORDINATE THE ELECTRICAL DEMOLITION WORK WITH THE GENERAL CONTRACTOR AND ALL OTHER TRADES AT THE JOBSITE. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARLY IDENTIFYING ALL CONDUITS, WIRING AND EQUIPMENT WHICH MUST BE MAINTAINED TO PREVENT DAMAGE TO ELECTRICAL CIRCUITS AND EQUIPMENT BY THE DEMOLITION WORK OF OTHER TRADES. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR REPAIR OR REPLACEMENT OF ELECTRICAL CIRCUITS AND/OR EQUIPMENT DAMAGED BY THE DEMOLITION WORK OF OTHERS RESULTING FROM THE FAILURE OF THE ELECTRICAL CONTRACTOR TO CLEARLY IDENTIFY SAID CIRCUITS OR EQUIPMENT.

F THE ELECTRICAL CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED CABLES, CONDUIT, WIRE, BOXES, FITTINGS AND HANGING MATERIALS FOR ELECTRICAL EQUIPMENT ABOVE EXISTING CEILINGS. REMOVAL SHALL CONTINUE THROUGHOUT CONSTRUCTION AS EQUIPMENT AND CIRCUITS ARE DISCONNECTED.

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◦ PROJECT ◦

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Redwood City CA 94063

◦ SHEET TITLE ◦

Demo Plan
Electrical

◦ REVISIONS ◦

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◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: E2.1D

1 PANEL SCHEDULE

NOTE: EACH MULTI WIRE BRANCH CIRCUIT MUST HAVE A MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES PER NEC 210.4

PANEL EM

120/208 VOLTS, 3 PHASE, 4 WIRE & GROUND — TYPE: BOLT-ON BUS: 100 AMPS — MINIMUM CB INTERRUPTING CAPACITY: 10,000 SYM. AMPS — MAIN: ☒ LUGS ONLY ☐ CB — MOUNTING: ☐ SURFACE ☒ FLUSH

CKT NO	LOAD DESCRIPTION AND LOCATION	LTG	REC	BRKR P	BRKR T	LCL	A	B	C	LCL	BRKR P	BRKR T	RETC	LTG	LOAD DESCRIPTION AND LOCATION	CKT NO
1	LTS-CORRIDOR			1	20		1.1	1.3			1	20	7		REC-EXAM RM/OFFICE #50	2
3	LTS-STAFF/OFFICE			1	20			1.7	1.0		1	20			REC-DINE/TV	4
5	LTS-BATHROOM/KITCHEN			1	20				1.2	1.0	1	20			REC-DINE/TV	6
7	LTS-MED RESPITE			1	20		1.4	1.0			1	20			REC-DINE/TV	8
9	LTS-EMERGENCY HOUSING			1	20			0.6	1.0		1	20			REC-DINE/TV	10
11	LTS-CORRIDOR EAST			1	20				0.9	0.7	1	20	4		REC-RECEPTION	12
13	LTS-WOMEN'S/MEN'S EAST			1	20		1.0	0.7			1	20	4		REC-COMPUTER/IT	14
15	LTS-MEN'S TRANSITIONAL			1	20			1.8	0.7		1	20	4		REC-COMPUTER/IT	16
17	LTS- WOMEN'S TRANSITIONAL			1	20				1.8	0.9	1	20	5		REC-OFFICE 20	18
19	LTS-LAUNDRY/LINEN/EXAM			1	20		0.6	0.9			1	20	5		REC-OFFICE 20	20
21	LTS-DINING			1	20			1.6	0.7		1	20	4		REC-OFFICE 16,17	22
23	LTS-RECEPTION			1	20				0.4	1.1	1	20	6		REC-OFFICE 18,19	24
25	SPARE			1	20		1.0	1.0			1	20			SPARE	26
27	SPARE			2	20				1.0		1	20			SPARE	28
29											1	20			SPARE	30
31	SPARE			2	20		1.0				1	20			SPARE	32
33									1.0						REFRIG CONDENSATE VAPORA	34
35	STEAM TABLE			2	30					2.2	2	20			REFRIG COND UNIT	36
37							2.2	1.2								38
39	STEAM TABLE			2	30			2.2	1.2		2	20			REFRIG COND UNIT	40
41										2.2	1.2					42

☐ ISOLATED GROUND BUS ☐ 200% RATED NEUTRAL

SUB TOTALS	A	B	C	
	14.4	14.5	14.8	CONNECTED KVA PER PHASE
	120	121	123	CONNECTED AMPS PER PHASE

TOTAL CONNECTED LOAD 43.7 KVA+[3.8 (LCL) KVA x 25%] = 47.5 KVA= 67 AMPS

PANEL EMX

120/208 VOLTS, 3 PHASE, 4 WIRE & GROUND — TYPE: BOLT-ON BUS: 225 AMPS — MINIMUM CB INTERRUPTING CAPACITY: 10,000 SYM. AMPS — MAIN: ☒ LUGS ONLY ☐ CB — MOUNTING: ☐ SURFACE ☒ FLUSH

CKT NO	LOAD DESCRIPTION AND LOCATION	LTG	REC	BRKR P	BRKR T	LCL	A	B	C	LCL	BRKR P	BRKR T	RETC	LTG	LOAD DESCRIPTION AND LOCATION	CKT NO
1	LTS-EXTERIOR			1	20		0.6	0.3			2	20			LTS-PARKING	2
3	LTS-BOLLARDS			1	20			0.7	0.3							4
5	LTS-TRELLIS/DRIVEWAY			1	20				0.1	1.0	1	20			LTS KENNEL	6
7	SPARE			1	20						1	20			SPARE	8
9	SPARE			1	20						1	20			SPARE	10
11	SPARE			1	20						1	20			SPARE	12
13	SPARE			1	20						1	20			SPARE	14
15	SPARE			1	20						1	20			SPARE	16
17	SPARE			1	20						1	20			SPARE	18
19	SPARE						12.6				1	20			SPARE	20
21	PANEL EM			3	100			13.7			1	20			SPARE	22
23									15.8		1	20			SPARE	24
25																26
27																28
29																30
31																32
33																34
35																36
37																38
39																40
41																42

☐ ISOLATED GROUND BUS ☐ 200% RATED NEUTRAL

SUB TOTALS	A	B	C	
	13.5	14.7	16.9	CONNECTED KVA PER PHASE
	113	123	141	CONNECTED AMPS PER PHASE

TOTAL CONNECTED LOAD 45.1 KVA+[0.0 (LCL) KVA x 25%] = 45.1 KVA= 125 AMPS

PANEL K

120/208 VOLTS, 3 PHASE, 4 WIRE & GROUND — TYPE: BOLT-ON BUS: 225 AMPS — MINIMUM CB INTERRUPTING CAPACITY: 10,000 SYM. AMPS — MAIN: ☒ LUGS ONLY ☐ CB — MOUNTING: ☐ SURFACE ☒ FLUSH

CKT NO	LOAD DESCRIPTION AND LOCATION	LTG	REC	BRKR P	BRKR T	LCL	A	B	C	LCL	BRKR P	BRKR T	RETC	LTG	LOAD DESCRIPTION AND LOCATION	CKT NO
1	DISPOSER			2	20		1.3	1.0			1	20			REC-KITCHEN	2
3								1.3	1.0		1	20			REC-KITCHEN	4
5	REC-KITCHEN UNDER HOOD			1	20				1.0	1.0	1	20			REC-KITCHEN	6
7	SHUNT TRIP										1	20			SPARE	8
9	REC-KITCHEN UNDER HOOD			1	20			1.0			1	20			SPARE	10
11	SHUNT TRIP										1	20			SPARE	12
13	REC-KITCHEN UNDER HOOD			1	20		1.0				1	20			SPARE	14
15	SHUNT TRIP							1.0			1	20			SPARE	16
17	SPARE			1	20					1.0	1	20			SPARE	18
19	SPARE			1	20						2	20			SPARE	20
21	HOOD CONTROL PANEL			1	20			0.5								22
23	HOOD LIGHTS			1	20				0.4		2	20			SPARE	24
25							0.7									26
27	EXH FAN EF-1			3	15			0.7			2	20			SPARE	28
29									0.7							30
31							0.6				2	20			SPARE	32
33	MAKE UP AIRE MUA-1			3	15			0.6								34
35									0.6		1	20			SPARE	36
37							3.0				1	20			SPARE	38
39	DISH WASHER			3	30			3.0			1	20			SPARE	40
41									3.0		1	20			SPARE	42

☐ ISOLATED GROUND BUS ☐ 200% RATED NEUTRAL

SUB TOTALS	A	B	C	
	7.6	9.1	7.7	CONNECTED KVA PER PHASE
	63	76	64	CONNECTED AMPS PER PHASE

TOTAL CONNECTED LOAD 24.4 KVA+[0.0 (LCL) KVA x 25%] = 24.4 KVA= 68 AMPS

PANEL LR

120/208 VOLTS, 3 PHASE, 4 WIRE & GROUND — TYPE: BOLT-ON BUS: 100 AMPS — MINIMUM CB INTERRUPTING CAPACITY: 10,000 SYM. AMPS — MAIN: ☒ LUGS ONLY ☐ CB — MOUNTING: ☐ SURFACE ☒ FLUSH

CKT NO	LOAD DESCRIPTION AND LOCATION	LTG	REC	BRKR P	BRKR T	LCL	A	B	C	LCL	BRKR P	BRKR T	RETC	LTG	LOAD DESCRIPTION AND LOCATION	CKT NO
** 1	REC-LAUNDRY			1	20		1.0	1.0			1	20			REC-LAUNDRY	2 **
** 3	REC-LAUNDRY			1	20				1.0	1.0	1	20			REC-LAUNDRY	4 **
** 5	REC-LAUNDRY			1	20					1.0	1.0	1	20			REC-LAUNDRY	6 **
** 7	REC-LAUNDRY			1	20		1.0	1.0			1	20			REC-LAUNDRY	8 **
** 9	REC-LAUNDRY			1	20				1.0	1.0	1	20			REC-LAUNDRY	10 **
** 11	REC-LAUNDRY			1	20					1.0	1.0	1	20			REC-LAUNDRY	12 **
** 13	REC-LAUNDRY			1	20		1.0	1.0			1	20			REC-LAUNDRY	14 **
** 15	REC-LAUNDRY			1	20				1.0	1.0	1	20			REC-LAUNDRY	16 **
** 17	REC-LAUNDRY			1	20					1.0	0.8	1	20	4	REC-LAUNDRY ABOVE CTR	18
** 19	REC-LAUNDRY			1	20		1.0	1.0			1	20			REC-LAUNDRY	20 **
** 21	REC-LAUNDRY			1	20				1.0	1.0	1	20			REC-LAUNDRY	22 **
** 23	REC-LAUNDRY			1	20					1.0	1.0	1	20			SPARE	24
25	SPARE			1	20							1	20			SPARE	26
27	SPARE			1	20							1	20			SPARE	28
29	SPARE			1	20							1	20			SPARE	30
31	SPARE			1	20							1	20			SPARE	32
33	SPARE			1	20							1	20			SPARE	34
35	SPARE			1	20							1	20			SPARE	36
37	SPARE			1	20							1	20			SPARE	38
39	SPARE			1	20							1	20			SPARE	40
41	SPARE			1	20							1	20			SPARE	42

☐ ISOLATED GROUND BUS ☐ 200% RATED NEUTRAL

SUB TOTALS	A	B	C	
	8.0	8.0	7.8	CONNECTED KVA PER PHASE
	67	67	65	CONNECTED AMPS PER PHASE

TOTAL CONNECTED LOAD 23.8 KVA+[0.0 (LCL) KVA x 25%] = 23.8 KVA= 66 AMPS

** PROVIDE GFI BREAKER AND DED NEUTRALS FOR THESE CIRCUITS

PANEL P1

120/208 VOLTS, 3 PHASE, 4 WIRE & GROUND — TYPE: BOLT-ON BUS: 225 AMPS — MINIMUM CB INTERRUPTING CAPACITY: 10,000 SYM. AMPS — MAIN: ☒ LUGS ONLY ☐ CB — MOUNTING: ☐ SURFACE ☒ FLUSH

CKT NO	LOAD DESCRIPTION AND LOCATION	LTG	REC	BRKR P	BRKR T	LCL	A	B	C	LCL	BRKR P	BRKR T	RETC	LTG	LOAD DESCRIPTION AND LOCATION	CKT NO
1	REC-STAFF MTG (COFFEE)	1	1	20			1.5	0.5			1	20			LCP POWER	2
3	REC-STAFF MTG (MICROWAVE)	1	1	20				1.5	0.5		1	20			TELEPHONE CABINET	4
5	REC-STAFF MTG (FRIDGE)	1	1	20					0.8	1.2	1	20	6		REC-BATHROOM	6
7	REC-STAFF MTG (FRIDGE)	1	1	20			0.8	0.8			1	20	4		REC-BATHROOM	8
9	REC-STAFF MTG CONV	1	1	20				1.5	1.2		1	20	6		REC-CORRIDOR	10
11	REC-STAFF MTG (DISPOSER)	5	1	20					1.0	1.0	1	20			REC-MEDICAL RESPITE 5	12
13	REC-STAFF MTG (ABOVE CTR)	2	1	20			0.4	1.0			1	20			REC-MEDICAL RESPITE 5	14
15	REC-DW	1	1	20				1.0	1.0		1	20			REC-MEDICAL RESPITE 4	16
17	REC-TOILETS	2	1	20					0.4	1.0	1	20			REC-MEDICAL RESPITE 4	18
19	SPARE		1	20			1.0				1	20			REC-MEDICAL RESPITE 4	20
21	SPARE		1	20				1.0			1	20			REC-MEDICAL RESPITE 4	22
23	WATER HTR CONTROL PNL		1	20					1.9	1.0	1	20			REC-EMERGENCY HSG	24
25	WATER HTR CONTROL PNL		1	20			1.9				1	20			SPARE	26
27	REC/LTS ATTIC		1	20				0.3			1	20			SPARE	28
29	REC-CORRIDOR	4	1	20					0.7	0.6	1	20			EXH FAN EF-2	30
31	REC-EXTERIOR	2	1	20			0.4				1	20			SPARE	32
33	REC-EXTERIOR	2	1	20				0.4			1	20			SPARE	34
35	SPARE		1	20							1	20			SPARE	36
37	SPARE		1	20				1.0			1	20			GENERAC BATTERY CHARGER	38
39	SPARE		1	20					1.0		1	20			GENERATOR HEATER	40
41	SMOKE DETECTOR		1	20						0.1	1	20			EXH FANS 4,5,6,8	42

☐ ISOLATED GROUND BUS ☐ 200% RATED NEUTRAL

SUB TOTALS	A	B	C	
	9.3	9.4	10.2	CONNECTED KVA PER PHASE
	78	78	85	CONNECTED AMPS PER PHASE

TOTAL CONNECTED LOAD 28.9 KVA+[0.0 (LCL) KVA x 25%] = 28.9 KVA= 80 AMPS

PANEL P2

120/208 VOLTS, 3 PHASE, 4 WIRE & GROUND — TYPE: BOLT-ON BUS: 225 AMPS — MINIMUM CB INTERRUPTING CAPACITY: 10,000 SYM. AMPS — MAIN: ☒ LUGS ONLY ☐ CB — MOUNTING: ☐ SURFACE ☒ FLUSH

CKT NO	LOAD DESCRIPTION AND LOCATION	LTG	REC	BRKR P	BRKR T	LCL	A	B	C	LCL	BRKR P	BRKR T	RETC	LTG	LOAD DESCRIPTION AND LOCATION	CKT NO
1	SPARE		3	1	20		0.6	1.0			1	20	5		REC-CORRIDOR	2
3	SPARE		3	1	20			0.6	0.8		1	20	4		REC-MEN'S TRANSITIONAL	4
5	SPARE		3	1	20				0.6	1.2	1	20	6		REC-WOMEN'S	6
7	REC-TRANSITIONAL HSG			1	20		1.0	0.6			1	20	3		REC-CORRIDOR	8
9	REC-TRANSITIONAL HSG			1	20			1.0	1.0		1	20			REC-WOMEN'S EMERGENCY HS	10
11	REC-TRANSITIONAL HSG			1	20				1.0	1.0	1	20			REC-WOMEN'S TRANSITIONAL	12
13	REC-TRANSITIONAL HSG			1	20		1.0	1.0			1	20			REC-WOMEN'S TRANSITIONAL	14
15	REC-TRANSITIONAL HSG			1	20			1.0	1.0		1	20			REC-WOMEN'S TRANSITIONAL	16
17	KENNEL POWER			1	20				1.0	1.0	1	20			REC-WOMEN'S TRANSITIONAL	18
19	KENNEL POWER			1	20		1.0	1.0			1	20			REC-MEN'S TRANSITIONAL	20
21	REC-MEN'S EMERG HSG			1	20			0.2	1.0		1	20			SPARE	22
23	WATER HEATER CONT PNL			1	20				1.9	1.0	1	20			REC-MEN'S TRANSITIONAL	24
25	WATER HEATER CONT PNL			1	20		1.9	0.6			1	20			SPARE	26
27	REC/LTS-ATTIC			1	20			0.3			1	20			EXH FAN EF-3	28
29	SPARE			1	20						1	20			SPARE	30
31	SPARE			1	20						1	20			SPARE	32
33	SPARE			1	20						1	20			SPARE	34
35	SPARE			1	20						1	20			SPARE	36
37																38
39	SPARE			1	20						1	20			SPARE	40
41	SMOKE DETECTOR			1	20					0.1						42

☐ ISOLATED GROUND BUS ☐ 200% RATED NEUTRAL

SUB TOTALS	A	B	C	
	9.7	6.9	8.8	CONNECTED KVA PER PHASE
	81	58	73	CONNECTED AMPS PER PHASE

TOTAL CONNECTED LOAD 25.4 KVA+[0.0 (LCL) KVA x 25%] = 25.4 KVA= 71 AMPS

232525

PANEL M **

120/208 VOLTS, 3 PHASE, 4 WIRE & GROUND — TYPE: BOLT-ON BUS: 400 AMPS — MINIMUM CB INTERRUPTING CAPACITY: 10,000 SYM. AMPS — MAIN: ☒ LUGS ONLY ☐ CB — MOUNTING: ☐ SURFACE ☒ FLUSH

CKT NO	LOAD DESCRIPTION AND LOCATION	LTG	REC	BRKR P	BRKR T	LCL	A	B	C	LCL	BRKR P	BRKR T	RETC	LTG	LOAD DESCRIPTION AND LOCATION	CKT NO
1							4.2	5.0								2
3	AC-1			3	50			4.2	5.0		3	50			AC-7	4
5									4.2	5.0						6
7							3.6	2.8								8
9	AC-2			3	45			3.6	2.8		3	30			AC-8	10
11									3.6	2.8						12
13							3.6	4.2								14
15	AC-3			3	45			3.6	4.2		3	50			AC-9	16
17									3.6	4.2						18
19							4.2	4.2								20
21	AC-4			3	50			4.2	4.2		3	50			AC-10	22
23									4.2	4.2						24
25							2.6									26
27	AC-5			3	30			2.6			3	50			SPARE	28
29									2.6							30
31							4.2	1.0			1	20			REC-ROOF	32
33	AC-6			3	50			4.2	0.5		1	20			DUCT SMOKE DETECTOR	34
35									4.2	0.1	1	20			FIRE SMOKE DAMPER	36
37											1	20			SPARE	38
39	SPARE			3	20						1	20			SPARE	40
41											1	20			SPARE	42

☐ ISOLATED GROUND BUS ☐ 200% RATED NEUTRAL

SUB TOTALS	A	B	C	
	39.6	39.1	38.7	CONNECTED KVA PER PHASE
	330	326	323	CONNECTED AMPS PER PHASE

TOTAL CONNECTED LOAD 117.4 KVA+[0.0 (LCL) KVA x 25%] = 117.4 KVA= 326 AMPS

**PROVIDE FEED THRU LUGS FOR PANEL M2

PANEL M2

120/208 VOLTS, 3 PHASE, 4 WIRE & GROUND — TYPE: BOLT-ON BUS: 400 AMPS — MINIMUM CB INTERRUPTING CAPACITY: 10,000 SYM. AMPS — MAIN: ☒ LUGS ONLY ☐ CB — MOUNTING: ☐ SURFACE ☒ FLUSH

CKT NO	LOAD DESCRIPTION AND LOCATION	LTG	REC	BRKR P	BRKR T	LCL	A	B	C	LCL	BRKR P	BRKR T	RETC	LTG	LOAD DESCRIPTION AND LOCATION	CKT NO
1							0.6	0.8								2
3	AC-1 ECO POWER EXHAUST			3	15			0.6	0.8		3	15			AC-7 ECO POWER EXHAUST	4
5									0.6	0.8						6
7							0.6	0.6								8
9	AC-2 ECO POWER EXHAUST			3	15			0.6	0.6		3	15			AC-8 ECO POWER EXHAUST	10
11									0.6	0.6						12
13							0.6	0.6								14
15	AC-3 ECO POWER EXHAUST			3	15			0.6	0.6		3	15			AC-9 ECO POWER EXHAUST	16
17									0.6	0.6						18
19							0.6	0.6								20
21	AC-4 ECO POWER EXHAUST			3	15			0.6	0.6		3	15			AC-10 ECO POWER EXHAUST	22
23									0.6	0.6						24
25							0.6	0.6								26
27	AC-5 ECO POWER EXHAUST			3	15			0.6	0.6		3	15			SPARE	28
29									0.6	0.6						30
31							0.6	1.0			1	20			SPARE	32
33	AC-6 ECO POWER EXHAUST			3	15			0.6	1.0		1	20			SPARE	34
35									0.6	1.0	1	20			SPARE	36
37											1	20			SPARE	38
39	SPARE			3	20						1	20			SPARE	40
41											1	20			SPARE	42

☐ ISOLATED GROUND BUS ☐ 200% RATED NEUTRAL

SUB TOTALS	A	B	C	
	7.8	7.8	7.8	CONNECTED KVA PER PHASE
	65	65	65	CONNECTED AMPS PER PHASE

TOTAL CONNECTED LOAD 23.4 KVA+[0.0 (LCL) KVA x 25%] = 23.4 KVA= 65 AMPS

CJ W ARCHITECTURE
130 Portola Road, suite A
Portola Valley, CA 94028
(650) 851-9335 / (Fax) 851-9337

Tantech Engineers
MEP CONSULTING ENGINEERS
1431 Cedar Street
San Carlos, CA 94070
(415) 269-4283

◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

Panel Schedule

◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLDG SUBMITTAL 1
2	8.15.16	PLAN CHECK # 1 ADDENDUM # 3
3	8.25.16	ADDENDUM # 5
4	9.23.16	PLAN CHECK #2 ADDENDUM # 6

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: E3.2

1 TITLE 24

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 1 of 6)
Project Name: LifeMoves Maple St	Date Prepared: 9/24/2016

A. General Information

Climate Zone: 3	Conditioned Floor Area : 10,173				
	Unconditioned Floor Area : 730				
Building Type:	☑ Nonresidential	☐ High-Rise Residential	☐ Hotel/Motel		
☐ Schools	☐ Relocatable Public Schools	☑ Conditioned Spaces	☑ Unconditioned Spaces		
Phase of Construction:	☐ New Construction	☐ Addition	☑ Alteration		
Method of Compliance:	☐ Complete Building	☑ Area Category	☐ Tailored		
Project Address: 1580 Maple St					

B. Lighting Compliance Documents (select yes for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	FORM	TITLE
✔		NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
✔		NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
✔		NRCC-LTI-03-E	Indoor Lighting Power Allowance
	✔	NRCC-LTI-04-E	Tailored Method Worksheets
	✔	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 2 of 6)
Project Name: LifeMoves Maple St	Date Prepared: 9/24/2016

C. Summary of Allowed Lighting Power

Conditioned and Unconditioned space Lighting must not be combined for compliance

	Indoor Lighting Power for Conditioned Spaces		Watts	Indoor Lighting Power for Unconditioned Spaces		Watts
1.	**Installed** Lighting NRCC-LTI-01-E, page 4	+	8,598	**Installed** Lighting NRCC-LTI-01-E, page 4	+	380
2.	PORTABLE ONLY FOR OFFICES NRCC-LTI-01-E, page 3	+				
3.	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	0	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	0
4.	Adjusted **Installed** Lighting Power (row 1 plus row 2 minus row 3)	=	8,598	Adjusted **Installed** Lighting Power (row 1 minus row 3)	=	380
5.	Complies ONLY if **Installed** ≤ **Allowed**			Complies ONLY if **Installed** ≤ **Allowed**		
6.	**Allowed** Lighting Power Conditioned NRCC-LTI-03-E, page 1		8,795	**Allowed** Lighting Power Unconditioned NRCC-LTI-03-E, page 1		438

4

D. Declaration of Required Installation Certificates

Declare by selecting yes for all Installation Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
✔		NRCI-LTI-01-E - Must be submitted for all buildings	☐ Field Inspector
✔	✔	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector
	✔	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	☐ Field Inspector
	✔	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐ Field Inspector
	✔	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐ Field Inspector
	✔	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐ Field Inspector

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 3 of 6)
Project Name: LifeMoves Maple St	Date Prepared: 9/24/2016

E. Declaration of Required Certificates of Acceptance

Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
✔		NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐ Field Inspector
✔		NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐ Field Inspector
✔		NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐ Field Inspector

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☐ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

F. Indoor Lighting Schedule and Field Inspection Energy Checklist

- ☐ The actual indoor lighting power listed on this page and on the next page includes all installed permanent and planned portable lighting systems.
- ☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
- ☐ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
- ☐ Also include track lighting in schedule, and submit the track lighting compliance form (NRCC-LTI-05-E) when line-voltage track lighting is installed.

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 4 of 6)
Project Name: LifeMoves Maple St	Date Prepared: 9/24/2016

G. Installed Portable Luminaires in Offices – Exception to Section 140.6(a)

- ☐ This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance form.
- ☐ This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office
- ☐ Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Portable Luminaire Schedule	Office Installed Portable Luminaire Watts Per Square Foot							Office Location	Field Inspector	
1	2	3	4	5	6	7	8	9	10	
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Number of Luminaires	Installed portable luminaire watts in this office (G02 x G03)	Square feet of this office	Watts per square foot (G04 / G05)	If F ≤ 0.3, enter zero; if G06 > 0.3, (G06-0.3)	G05 x G07	Identify Office area in which these portable luminaires are installed	Pass	Fail
									☐	☐
									☐	☐
									☐	☐
									☐	☐
									☐	☐
Total installed portable luminaire watts that are greater than 0.3 watts per square foot per office:								Enter sum total of all pages into NRCC-LTI-01-E; Page 1		

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 4 of 6)
Project Name: LifeMoves Maple St	Date Prepared: 9/24/2016

G. Installed Portable Luminaires in Offices – Exception to Section 140.6(a)

- ☐ This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance form.
- ☐ This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office
- ☐ Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Portable Luminaire Schedule	Office Installed Portable Luminaire Watts Per Square Foot							Office Location	Field Inspector	
1	2	3	4	5	6	7	8	9	10	
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Number of Luminaires	Installed portable luminaire watts in this office (G02 x G03)	Square feet of this office	Watts per square foot (G04 / G05)	If F ≤ 0.3, enter zero; if G06 > 0.3, (G06-0.3)	G05 x G07	Identify Office area in which these portable luminaires are installed	Pass	Fail
									☐	☐
									☐	☐
									☐	☐
									☐	☐
									☐	☐
Total installed portable luminaire watts that are greater than 0.3 watts per square foot per office:								Enter sum total of all pages into NRCC-LTI-01-E; Page 1		

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 5 of 6)
Project Name: LifeMoves Maple St	Date Prepared: 9/24/2016

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

H. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Luminaire Schedule		Installed Watts				Location	Field Inspector [1]	
A	B	C	D		E	F	G	H	
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined: CEC Default from NA8	How wattage was determined: According to §130.0(c)	Number Luminaires	Total Installed Watts in this area (hl03 x hl05)	Primary Function area in which these luminaires are installed	Pass	Fail
A	30w LED	30.0	☑	☐	12	360	Laundry	☐	☐
A	30w LED	30.0	☑	☐	66	1,980	Corridors	☐	☐
A	30w LED	30.0	☑	☐	2	60	Corridor/Restroom/Support	☐	☐
A	30w LED	30.0	☑	☐	52	1,560	Dining Room	☐	☐
A	30w LED	30.0	☑	☐	4	120	Treatment/Examination	☐	☐
A	30w LED	30.0	☑	☐	14	420	Waiting Area	☐	☐
A	30w LED	30.0	☑	☐	6	180	Lounge, Recreation	☐	☐
A	30w LED	30.0	☑	☐	15	450	Office > 250 sqft	☐	☐
A	30w LED	30.0	☑	☐	10	300	Convention/Conference/Meeting	☐	☐
				INSTALLED WATTS PAGE TOTAL:		5,430	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

CJ W ARCHITECTURE
130 Portola Road, suite A
Portola Valley, CA 94028
(650) 851-9335 / (Fax) 851-9337

Tantech Engineers
MEP CONSULTING ENGINEERS
1431 Cedar Street
San Carlos, CA 94070
(415) 269-4283

PROJECT

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

SHEET TITLE

Title 24
Lighting

REVISIONS

No.	Date	Notes
	6.17.16	BLDG SUBMITTAL 1
2	8.15.16	PLAN CHECK # 1 ADDENDUM # 3
3	8.25.16	ADDENDUM # 5
4	9.23.16	PLAN CHECK #2 ADDENDUM # 6

JOB: 2015.2801

DATE: 06/17/16

SHEET: E4.1

1 TITLE 24

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 5 of 6)
Project Name: LifeMoves Maple St	Date Prepared: 9/24/2016

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

H. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Luminaire Schedule		Installed Watts					Location	Field Inspector [1]	
A	B	C	D		E	F	G	H	
			How wattage was determined						
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	CEC Default from NA8	According to §130.0(c)	Number Luminaires	Total Installed Watts in this area (H03 x H05)	Primary Function area in which these luminaires are installed	Pass	Fail
A	30w LED	30.0	☑	☐	19	570	Office <= 250 sqft	☐	☐
B	73w LED	73.0	☑	☐	6	438	Corridor/Restroom/Support	☐	☐
B	73w LED	73.0	☑	☐	6	438	Kitchen, Food Preparation	☐	☐
B1	24.1w LED	24.1	☑	☐	22	530	Corridor/Restroom/Support	☐	☐
B2	32w LED	32.0	☑	☐	1	32	All Others	☐	☐
B2	34.3w LED	34.3	☑	☐	11	377	Corridor/Restroom/Support	☐	☐
C1	10W LED	10.0	☑	☐	16	160	Corridor/Restroom/Support	☐	☐
C2	28w LED	28.0	☑	☐	18	504	Corridor/Restroom/Support	☐	☐
C3	35w LED	35.0	☑	☐	2	70	Corridor/Restroom/Support	☐	☐
					INSTALLED WATTS PAGE TOTAL:	3,120	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 5 of 6)
Project Name: LifeMoves Maple St	Date Prepared: 9/24/2016

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
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Luminaire Schedule		Installed Watts					Location	Field Inspector [1]	
A	B	C	D		E	F	G	H	
			How wattage was determined						
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	CEC Default from NA8	According to §130.0(c)	Number Luminaires	Total Installed Watts in this area (H03 x H05)	Primary Function area in which these luminaires are installed	Pass	Fail
C4	24w LED	24.0	☑	☐	2	48	Corridor/Restroom/Support	☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
					INSTALLED WATTS PAGE TOTAL:	48	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

4

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 5 of 6)
Project Name: LifeMoves Maple St	Date Prepared: 9/24/2016

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☐ **CONDITIONED SPACE** ☑ **UNCONDITIONED SPACE**

H. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Luminaire Schedule		Installed Watts					Location	Field Inspector [1]	
A	B	C	D		E	F	G	H	
			How wattage was determined						
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	CEC Default from NA8	According to §130.0(c)	Number Luminaires	Total Installed Watts in this area (H03 x H05)	Primary Function area in which these luminaires are installed	Pass	Fail
K1	10W LED	10.0	☑	☐	14	140	All Others	☐	☐
K2	40w LED	40.0	☑	☐	6	240	All Others	☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
					INSTALLED WATTS PAGE TOTAL:	380	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 6 of 6)
Project Name: LifeMoves Maple St	Date Prepared: 9/24/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Tantech Engineers	Documentation Author Signature:
Company: Tantech Engineers	Signature Date: 9/24/2016
Address: 1431 Cedar St	CEA Certification Identification (if applicable):
City/State/Zip: San Carlos, CA 94070	Phone: 415-269-4283

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: TANTECH ENGINEERS	Responsible Designer Signature:
Company : TANTECH ENGINEERS	Date Signed:
Address: 1431 CEDAR ST	License:
City/State/Zip: SAN CARLOS, CA 94070	Phone: 415-269-4283

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 1 of 3)
Project Name: LifeMoves Maple St	Date Prepared: 9/24/2016

The NRCC-LTI-02-E shall be used to document all mandatory and prescriptive lighting controls that are applicable to the project.

Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
✔	✔	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
✔		Lighting shall be controlled by a lighting control a system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
	✔	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
	✔	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
✔		All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
	✔	All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a).
✔		General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
✔		The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
✔		All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
✔		Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.
✔		Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
✔		Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)
Project Name: LifeMoves Maple St	Date Prepared: 9/24/2016

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☑ CONDITIONED SPACES ☐ UNCONDITIONED SPACES

MANDATORY AND PRESCRIPTIVE INDOOR LIGHTING CONTROL SCHEDULE, PAF CALCULATION, and FIELD INSPECTION CHECKLIST

Lighting Control Schedule			Standards Complying With [1] (✓ all that apply, or enter 'E' if Exempted)							PAF Credit Calculation [2]			✓ if Acceptance Test Required	Field Inspector	
										Watts of Controlled Lighting	PAF	Control Credit (K x L)			
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
Location in Building	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	§130.1(a)	§130.0(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(a)2	§140.6(d)					Pass	Fail
														☐	☐
														☐	☐
														☐	☐
														☐	☐
														☐	☐
														☐	☐
														☐	☐

Control Credit PAGE TOTAL (Sum of Column M):	0
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column M):	0
	Enter Control Credit total into NRCC-LTI-01-E; Page 1.

1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

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Tantech Engineers
MEP CONSULTING ENGINEERS
1431 Cedar Street
San Carlos, CA 94070
(415) 269-4283

∘ PROJECT ∘

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

∘ SHEET TITLE ∘

Title 24
Lighting

∘ REVISIONS ∘

No.	Date	Notes
	6.17.16	BLDG SUBMITTAL 1
2	8.15.16	PLAN CHECK # 1 ADDENDUM # 3
3	8.25.16	ADDENDUM # 5
4	9.23.16	PLAN CHECK #2 ADDENDUM # 6

∘ JOB: 2015.2801

∘ DATE: 06/17/16

∘ SHEET: E4.2

1 TITLE 24

4

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 2 of 4)
Project Name: LifeMoves Maple St	Date Prepared: 9/24/2016

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☐ CONDITIONED spaces ☑ UNCONDITIONED spaces

C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE

☐ Do not include portable lighting for offices. Portable lighting for offices shall be documented only in section B of NRCC-LTI-01-E.
☐ Separately list lighting for each primary function area as defined in §100.1 of the Standards.

A		B		C		D
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS				ALLOWED
Location in Building	Primary Function Area per Table 140.6-C	PER (ft^2)	X	AREA (ft^2)	=	WATTS
KENNEL	All Others	0.60		730		438
		TOTALS		730		
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance form)						438
						WATTS

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 3 of 4)
Project Name: LifeMoves Maple St	Date Prepared: 9/24/2016

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☐ CONDITIONED spaces ☑ UNCONDITIONED spaces

C-3 AREA CATEGORY METHOD ADDITIONAL LIGHTING WATTAGE ALLOWANCE (from Table 140.6-C Footnotes)

A	B	C [2]	D	E	F	G
Primary Function	Sq Ft or linear ft [1]	Additional Watts Allowed	Wattage Allowance (B x C)	Description(s) and Quantity of Special Luminaire Types in each Primary Function Area	Total Design Watts [3]	ALLOWED WATTS Smaller of D or F
TOTALS – Enter into TOTAL AREA CATEGORY METHOD ADDITIONAL ALLOWANCES – Section C-1						0

1. Use linear feet only for additional allowance for white board or chalk board. All other additional Area Category allowances shall use watts per square foot.
2 . Additional watts are available only when allowed according to the footnotes on bottom of Table 146-C, which include: Specialized task work; Ornamental lighting; Precision commercial and industrial work; Per linear foot of white board or chalk board; Accent, display and feature lighting; and Videoconferencing Studio lighting..
3. Luminaire classification and wattage shall be determined in accordance with §130.0(c) of the Standards.

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 4 of 4)
Project Name: LifeMoves Maple St	Date Prepared: 9/24/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Tantech Engineers	Documentation Author Signature:
Company: Tantech Engineers	Signature Date: 9/24/2016
Address: 1431 Cedar St	CEA Certification Identification (if applicable):
City/State/Zip: San Carlos, CA 94070	Phone: 415-269-4283

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: TANTECH ENGINEERS	Responsible Designer Signature:
Company : TANTECH ENGINEERS	Date Signed:
Address: 1431 CEDAR ST	License:
City/State/Zip: SAN CARLOS, CA 94070	Phone: 415-269-4283

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 1 of 4)
Project Name: LifeMoves Maple St	Date Prepared: 9/24/2016

Project Address: 1580 Maple St Redwood City, CA — Total Illuminated Hardscape Area 64,228

General Information
Phase of Construction: ☐ New Construction ☐ Addition ☑ Alteration
Outdoor Lighting Zone (OLZ) ☐ OLZ-1 ☐ OLZ-2 ☑ OLZ-3 ☐ OLZ-4
I have confirmed with the AHJ which OLZ applies to this site. For default lighting zone designations, see Title 24 Part 6, §10-114

LIGHTING COMPLIANCE DOCUMENTS (check box for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

☑	NRCC-LTO-01-E	Certificate of Compliance
☑	NRCC-LTO-02-E	Outdoor Lighting Controls Certificate of Compliance
☑	NRCC-LTO-03-E	Outdoor Lighting Power Allowance Certificate of Compliance

Summary of Allowed Outdoor Lighting Power			Watts
1.	**Sum Total ALLOWED** Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1	=	7,971
	Complies ONLY if **Installed ≤ Allowed**		↕
2.	**Sum Total INSTALLED** Outdoor lighting Wattage from NRCC-LTO-01-E, page 3		1,968

Declaration of Required Installation Certificates – Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

☑ NRCI-LTO-01-E - Must be submitted for all buildings	☐ Field Inspector
☑ NRCI-LTO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector

Declaration of Required Certificates of Acceptance – Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

☑ NRCA-LTO-02-A - Must be submitted for outdoor lighting controls.	☐ Field Inspector

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 2 of 4)
Project Name: LifeMoves Maple St	Date Prepared: 9/24/2016

Schedule of luminaires exempt from the outdoor lighting power requirements in §140.7

Name or Symbol	Description of exempt luminaire in accordance with the exemptions

Schedule of luminaires exempt from the cutoff requirements in §130.2(b)

Name or Symbol	Description of exempt luminaire in accordance with the exemptions

Schedule of luminaires exempt from the outdoor lighting control requirements in §130.2(c)

Name or Symbol	Description of exempt luminaire in accordance with the exemptions

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 06/14) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 3 of 4)
Project Name: LifeMoves Maple St	Date Prepared: 9/24/2016

A. OUTDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Luminaire Schedule		Installed Watts					Location	Cutoff	Field Inspector	
A	B	C	D		E	F	G	H	I	
			How wattage was determined							
Name or Item Tag	Complete Luminaire Description	Watts per Luminaire	CEC Default from NA8	According to §130.0(c)	Number of Luminaires	Total Installed Watts in this area (C x E)	Primary Function area in which these luminaires are installed	BUG Rating	Pass	Fail
X1	30w LED	30.0	☑	☐	15	450	Building Facade		☐	☐
X2	26 LED	26.0	☑	☐	6	156	Building Facade		☐	☐
S2	2- 55w LED	110.0	☑	☐	2	220	Automotive Hardscape		☐	☐
S1/S1A	55w LED	55.0	☑	☐	7	385	Automotive Hardscape		☐	☐
S3	41w LED	41.0	☑	☐	17	697	Automotive Hardscape		☐	☐
S4	10W LED	10.0	☑	☐	3	30	Automotive Hardscape		☐	☐
S5	10W LED	10.0	☑	☐	3	30	Automotive Hardscape		☐	☐
			☐	☐					☐	☐
			☐	☐					☐	☐
			☐	☐					☐	☐
			☐	☐					☐	☐
			☐	☐					☐	☐
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			☐	☐					☐	☐
			☐	☐					☐	☐
			☐	☐					☐	☐
INSTALLED WATTS PAGE TOTAL:						1,968	Enter sum total of all pages (**Sum Total INSTALLED** Outdoor lighting wattage) into NRCC-LTO-01-E; Page 1		1,968	

CJ W ARCHITECTURE
130 Portola Road, suite A
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1431 Cedar Street
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∘ PROJECT ∘

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

∘ SHEET TITLE ∘

Title 24
Lighting

∘ REVISIONS ∘

No.	Date	Notes
	6.17.16	BLDG SUBMITTAL 1
2	8.15.16	PLAN CHECK # 1 ADDENDUM # 3
3	8.25.16	ADDENDUM # 5
4	9.23.16	PLAN CHECK #2 ADDENDUM # 6

∘ JOB: 2015.2801

∘ DATE: 06/17/16

∘ SHEET: E4.4

1 TITLE 24

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 06/14) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 4 of 4)
Project Name: LifeMoves Maple St	Date Prepared: 9/24/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Tantech Engineers	Documentation Author Signature:
Company: Tantech Engineers	Signature Date: 9/24/2016
Address: 1431 Cedar St	CEA Certification Identification (if applicable):
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4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: TANTECH ENGINEERS	Responsible Designer Signature:
Company : TANTECH ENGINEERS	Date Signed:
Address: 1431 CEDAR ST	License:
City/State/Zip: SAN CARLOS, CA 94070	Phone: 415-269-4283

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 1 of 3)
Project Name: LifeMoves Maple St	Date Prepared: 9/24/2016

The NRCC-LTO-02-E shall be used to document all mandatory outdoor lighting controls that are applicable to the project.

Mandatory Outdoor Lighting Control Declaration Statements

Check all that apply:

- ☐ Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with §110.9(a).
- ☐ Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with §130.4(b).
- ☑ All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.1
- ☐ Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirements in Section 110.9(b)5
- ☐ All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.
- ☐ All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Backlight, Uplight, and Glare (collectively referred to as "BUG") in accordance with Section 130.2(b)
- ☐ All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control in accordance with Section 130.2(c)1
- ☑ All installed outdoor lighting shall be circuited and independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c)2
- ☐ All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)3
- ☐ For Outdoor Sales Frontage, Outdoor Sales Lots, and Outdoor Sales Canopies lighting, an automatic lighting control in accordance with Section 130.2(c)4
- ☐ For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control in accordance with Section 130.2(c)5
- ☑ Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4.(a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 1 of 7)
Project Name: LifeMoves Maple Street	Date Prepared: 7-26-2016

A. General Information

Project Address: 1580 Maple Street Redwood City, CA		Climate Zone: 3	Conditioned Floor Area : 10,173 Unconditioned Floor Area :
Building Type:	☑ Nonresidential	☐ High-Rise Residential	☐ Hotel/Motel
☐ Schools	☐ Relocatable Public Schools	☑ Conditioned Spaces	☐ Unconditioned Spaces
Phase of Construction:	☐ New Construction	☐ Addition	☑ Alteration

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 2 of 7)
Project Name: LifeMoves Maple Street	Date Prepared: 7-26-2016

B. Electrical Service Metering

☐ Each newly installed electrical service (in both existing and newly constructed buildings) is required to be metered, as set out in Table 130.5-A, which is reproduced below.

☐ Fill out a separate line for each electrical service that is connected to the building.

Electrical Service Schedule	Electrical Service Rating	Metering Capabilities (check all that are present)				Field Inspector	
A	B	C	D	E	F	G	
Designation/location in building/description	kVA	Instantaneous (at the time) kW demand	Historical peak demand (kW)	Resettable kWh	kWh per rate period	Pass	Fail
MSB exterior wall/Main Switchboard	269.1	☐	☐	☑	☐	☐	☐
		☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐
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		☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐

Table 130.5-A - MINIMUM REQUIREMENTS FOR METERING OF ELECTRICAL LOAD

Meter Rating (kVA)	50 kVA or less	More than 50kVA and less than or equal to 250 kVA	More than 250 kVA and less than or equal to 1000kVA	Services rated more than 1000kVA
Instantaneous (at the time) kW demand	Required	Required	Required	Required
Historical peak demand (kW)	Not required	Not required	Required	Required
Resettable kWh	Required	Required	Required	Required
kWh per rate period	Not required	Not required	Not required	Required

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 3 of 7)
Project Name: LifeMoves Maple Street	Date Prepared: 7-26-2016

C. Disaggregation of Electrical Circuits

☐ Each newly installed switchboard, panel, and motor control center (in both existing and newly constructed buildings) is required to be disaggregated according to the requirements of Table 130.5-B, shown on the next page.

☐ Individual branch circuits, taps or disconnects that require overcurrent protection devices rated 60A or greater.

☐ As an alternative, current transformers can be added for individual branch circuits and loads throughout the building, and a permanent measurement system can be installed. In this case, disaggregated wiring would not be required as long as the metering system allows the equivalent disaggregated measurements.

☐ Fill out a separate line for each switchboard, motor control center, panelboard and subpanel.

Switchboard, motor control center, panelboard or subpanel	Electrical Service that supplies that switchboard or panel	Electrical Service Rating	Field Inspector Pass	Field Inspector Fail
A	B	C	D	
Designation/location in building/description	Designation/location in building/description	kVA	☐	☐
PANEL EM & EMX/CORRIDOR/EM PNL	MSB/EXTERIOR/MAIN SWBD	50	☐	☐
PANEL K/CORRIDOR/KITCHEN PNL	MSB/EXTERIOR/MAIN SWBD	24.4	☐	☐
PANEL LR/CORRIDOR/LAUNDRY PNL	MSB/EXTERIOR/MAIN SWBD	23.8	☐	☐
PANEL M/CORRIDOR/MCHANICAL PNL	MSB/EXTERIOR/MAIN SWBD	117.4	☐	☐
PANEL M2/CORRIDOR/MECHANICAL PNL	MSB/EXTERIOR/MAIN SWBD	23.4	☐	☐
PANEL P1/CORRIDOR/RECEPT PNL	MSB/EXTERIOR/MAIN SWBD	28.8	☐	☐
PANEL P2/CORRIDOR/RECEPT PNL	MSB/EXTERIOR/MAIN SWBD	25.3	☐	☐
			☐	☐
			☐	☐
			☐	☐
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			☐	☐
OR Current transformers have been attached to individual branch circuits and loads throughout the building, and a permanent measurement system is installed that allows an equivalent degree of disaggregated measurement as required by the Standards..			☐	☐

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 5 of 7)
Project Name: LifeMoves Maple Street	Date Prepared: 7-26-2016

E. Voltage Drop

☐ Attach voltage drop worksheet to this form,

☐ Field inspector has discretion to approve the worksheets; the tables shown below in this section are advisory only

☐ Feeder conductors and branch circuits that are dedicated to emergency services are exempt from these requirements.

☐ An advisory table of typical power factors is shown below

	Field Inspector Pass	Field Inspector Fail
Feeders. Feeder conductors shall be sized for a maximum voltage drop of 2 percent at design load.	☐	☐
Branch Circuits. Branch circuit conductors shall be sized for a maximum voltage drop of 3 percent at design load.	☐	☐

Compliance Manual, Chapter 8, Table 8 2: Typical Power Factors for Voltage Drop Calculations

Load Type	Default Power Factor at 120 volts	Default Power Factor at 277 volts	Clarifying Notes
Fluorescent lighting	0.95	0.95	
Compact fluorescent lighting	0.9 (hardwired) 0.5 (GU-24)	0.9 (hardwired) 0.3 (GU-24)	NPF magnetic ballasts use GU-24 values
LED lighting	0.7	0.5	May be higher if specifications call for high power factor drivers
Incandescent lighting	1.0	1.0	
HID lighting	0.9	0.9	May be lower if NPF ballasts are specified
HVAC packages	0.85	0.9	
Other motors <5 HP	0.8	0.8	
Other motors >5 HP	0.85	0.85	
Kitchen equipment	0.9	N/A	
Receptacles	0.6	N/A	For dedicated receptacles, may be rated according to the load
Electric heating including hot water	1.0	1.0	
Other	0.85	0.85	

4

CJ W ARCHITECTURE
130 Portola Road, suite A
Portola Valley, CA 94028
(650) 851-9335 / (Fax) 851-9337

Tantech Engineers
MEP CONSULTING ENGINEERS
1431 Cedar Street
San Carlos, CA 94070
(415) 269-4283

∘ PROJECT ∘

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

∘ SHEET TITLE ∘

Title 24
Lighting

∘ REVISIONS ∘

No.	Date	Notes
	6.17.16	BLDG SUBMITTAL 1
2	8.15.16	PLAN CHECK # 1 ADDENDUM # 3
3	8.25.16	ADDENDUM # 5
4	9.23.16	PLAN CHECK #2 ADDENDUM # 6

∘ JOB: 2015.2801

∘ DATE: 06/17/16

∘ SHEET: E4.5

1 TITLE 24

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 5 of 7)
Project Name: LifeMoves Maple Street	Date Prepared: 7-26-2016

E. Voltage Drop

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- ☐ Field inspector has discretion to approve the worksheets; the tables shown below in this section are advisory only
- ☐ Feeder conductors and branch circuits that are dedicated to emergency services are exempt from these requirements.
- ☐ An advisory table of typical power factors is shown below

	Field Inspector Pass	Field Inspector Fail
Feeders. Feeder conductors shall be sized for a maximum voltage drop of 2 percent at design load.	☐	☐
Branch Circuits. Branch circuit conductors shall be sized for a maximum voltage drop of 3 percent at design load.	☐	☐

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Incandescent lighting	1.0	1.0	
HID lighting	0.9	0.9	May be lower if NPF ballasts are specified
HVAC packages	0.85	0.9	
Other motors <5 HP	0.8	0.8	
Other motors >5 HP	0.85	0.85	
Kitchen equipment	0.9	N/A	
Receptacles	0.6	N/A	For dedicated receptacles, may be rated according to the load
Electric heating including hot water	1.0	1.0	
Other	0.85	0.85	

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 6 of 7)
Project Name: LifeMoves Maple Street	Date Prepared: 7-26-2016

F. Circuit Controls for 120-Volt Receptacles

- ☑ Controlled 120 volt receptacles shall be provided, as required by Section 130.5(d) of the Standards.
- ☐ In open office areas, controlled circuit receptacles are not required if, at time of final permit, workstations are installed, and each workstation is equipped with an occupant sensing control that is permanently mounted in each workstation, and which controls a hardwired, nonresidential-rated power strip. Plug-in strips and other plug-in devices that incorporate an occupant sensor shall not be used for this exception.
- ☐ Receptacles that are only for the following purposes are exempt:
  - -Receptacles specifically for refrigerators and water dispensers in kitchenettes.
  - -Receptacles located a minimum of six feet above the floor that are specifically for clocks.
  - -Receptacles for network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms.

	Field Inspector Pass	Field Inspector Fail
1. At least one controlled receptacle is installed within 6 feet of each uncontrolled receptacle, or split-wired duplex receptacles are installed, that have one controlled and one uncontrolled receptacle. This applies in all of the following spaces: • Private offices, open office areas • Receptions and lobbies • Conference rooms • Kitchenettes in office spaces • Copy room	☐	☐
2. Electric circuits serving controlled receptacles are equipped with automatic shut-OFF controls following the requirements prescribed in Section 130.1(c)1 through 5 (in many cases this will mean that the receptacles are connected to the same automatic shut-OFF system as the general lighting of the space).	☐	☐
3. Controlled receptacles shall have a permanent marking to differentiate them from uncontrolled receptacles.	☐	☐
4. For open office areas, controlled circuits shall be provided and marked to support installation and configuration of office furniture with receptacles that comply with Section 130.5(d) 1, 2, and 3.	☐	☐
5. For hotel and motel guest rooms at least one-half of the 120-volt receptacles in each guest room are controlled receptacles that comply with Section 130.5(d)1, 2, and 3 (see numbers 1,2 and 3 above). Electric circuits serving controlled receptacles have captive card key controls, occupancy sensing controls, or automatic controls such that, no longer than 30 minutes after the guest room has been vacated, power is switched off.	☐	☐
6. Plug-in strips and other plug-in devices that incorporate an occupant sensor are not used to comply with any of these requirements.	☐	☐

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 7 of 7)
Project Name: LifeMoves Maple Street	Date Prepared: 7-26-2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Tantech Engineers	Documentation Author Signature:
Company: Tantech Engineers	Signature Date:
Address: 1431 Cedar St	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Carlos, CA 94070	Phone: 415-269-4283

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Tantech Engineers	Responsible Designer Signature:
Company : Tantech Engineers	Date Signed:
Address: 1431 Cedar St	License:
City/State/Zip: San Carlos, CA 94070	Phone: 415-269-4283

CJ W ARCHITECTURE
130 Portola Road, suite A
Portola Valley, CA 94028
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Tantech Engineers
MEP CONSULTING ENGINEERS
1431 Cedar Street
San Carlos, CA 94070
(415) 269-4283

◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

Title 24
Lighting

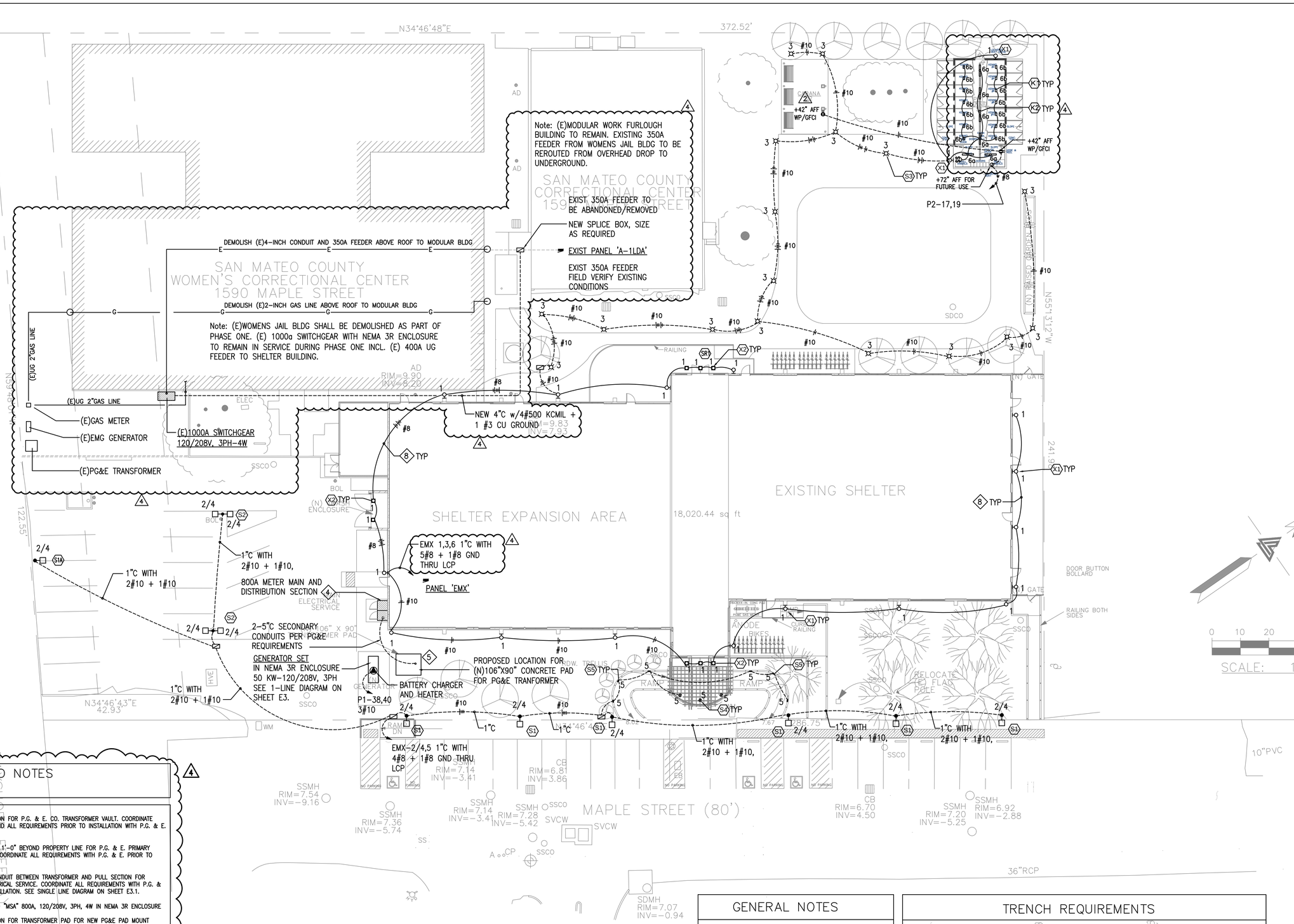
◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLDG SUBMITTAL 1
2	8.15.16	PLAN CHECK # 1 ADDENDUM # 3
3	8.25.16	ADDENDUM # 5
4	9.23.16	PLAN CHECK #2 ADDENDUM # 6

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: E4.6



2 KEYED NOTES
RE: SE2

1. PROPOSED LOCATION FOR P.G. & E. CO. TRANSFORMER VAULT. COORDINATE FINAL LOCATION AND ALL REQUIREMENTS PRIOR TO INSTALLATION WITH P.G. & E. REPRESENTATIVE
2. STUB OUT 1-4"C. 1'-0" BEYOND PROPERTY LINE FOR P.G. & E. PRIMARY UTILITY SERVICE. COORDINATE ALL REQUIREMENTS WITH P.G. & E. PRIOR TO INSTALLATION.
3. PROVIDE 2-5" CONDUIT BETWEEN TRANSFORMER AND PULL SECTION FOR SECONDARY ELECTRICAL SERVICE. COORDINATE ALL REQUIREMENTS WITH P.G. & E. PRIOR TO INSTALLATION. SEE SINGLE LINE DIAGRAM ON SHEET E3.1.
4. MAIN SWITCHBOARD "MSA" 800A, 120/208V, 3PH, 4W IN NEMA 3R ENCLOSURE
5. PROPOSED LOCATION FOR TRANSFORMER PAD FOR NEW PG&E PAD MOUNT TRANSFORMER IF REQUIRED - COORDINATE WITH PG&E SERVICE REPRESENTATIVE.
6. INCLUDES INTERNAL SHIELD 1N FIXTURE TO PREVENT LIGHT TRESPASS TO ADJACENT PROPERTY.
7. THRU LIGHTING CONTROL SEE SHEET E02
8. ALL BUILDING EXTERIOR LIGHTING "CONDUIT" TO BE RUN WITHIN BUILDING WALLS, ABOVE SUSPENDED CEILING. WHERE NOT CONCEALABLE WITHIN SPACE, ATTACH TO WALLS AND PAINT OUT, AS HIGH AS POSSIBLE. ANY EXPOSED CONDUIT MUST BE APPROVED IN ADVANCE OF INSTALLATION BY ARCHITECT.

1 SITE PLAN - ELECTRICAL
1/16"= 1'-0"

GENERAL NOTES

1.) CONTRACTOR TO TRENCH, BACKFILL AND INSTALL CONDUITS AND SUBSTRUCTURES ON AND OFF SITE.
2.) DO NOT EXCEED 330 DEGREES OF BENDS IN ANY CONDUIT RUN, INCLUDING BEND AT FEED LOCATION.
3.) PULLING TAPE TO BE INSTALLED IN ALL CONDUIT RUNS.
4.) SEE PG & e DRAWINGS FOR DETAILS.
5.) ALL CHANGES AND MODIFICATIONS MUST BE APPROVED IN ADVANCE BY PG&E.
6.) ELECTRIC AND GAS SERVICE REQUIREMENTS ARE AVAILABLE ON LINE AT www.pge.com/greenbook
7.) SEE SHEET SE1 FOR KEY NOTES.

TRENCH REQUIREMENTS

1. TRENCH CONFIGURATIONS ARE SHOWN ON THE PG&E CONSTRUCTION SKETCH. THIS SKETCH SHOWS THE LOCATIONS, DEPTH, SEPARATION AND MINIMUM COVER FOR FACILITIES LOCATED IN THE TRENCH. THE MINIMUM COVER WILL BE BASED ON THE FINAL GRADE. CONTRACTOR TO FURNISH ROUGH GRADE TO PLUS OR MINUS 2 FOOT OF FINISH GRADE WITH ADEQUATE GRADE STAKES ALONG TRENCH ROUTE. NOTE: THE MAXIMUM COVER IS 5 FEET FROM THE FINAL GRADE.
2. BACKFILL MUST BE TAMPED FOR MINIMUM SETTLEMENT. CONTRACTOR SHOULD BE AWARE THAT CITY, COUNTY OR STATE COMPACTION REQUIREMENTS MAY ALSO APPLY. BACKFILL MATERIAL MUST BE ROCK FREE NATIVE (SIFTED #4 SCREEN) OR APPROVED SAND.
3. TRENCH ROUTE CHANGES MAY NOT BE MADE WITHOUT PRIOR APPROVAL OF THE INSPECTOR. THE CONTRACTOR SHOULD BE AWARE THAT ANY CHANGES REQUIRE APPROVAL FROM PG&E ENGINEERING, SERVICE PLANNING AND/OR TRENCH INSPECTOR.

CJ W ARCHITECTURE
130 Portola Road, suite A
Portola Valley, CA 94028
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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

SITE ELECTRICAL PLAN

◦ REVISIONS ◦

No.	Date	Notes
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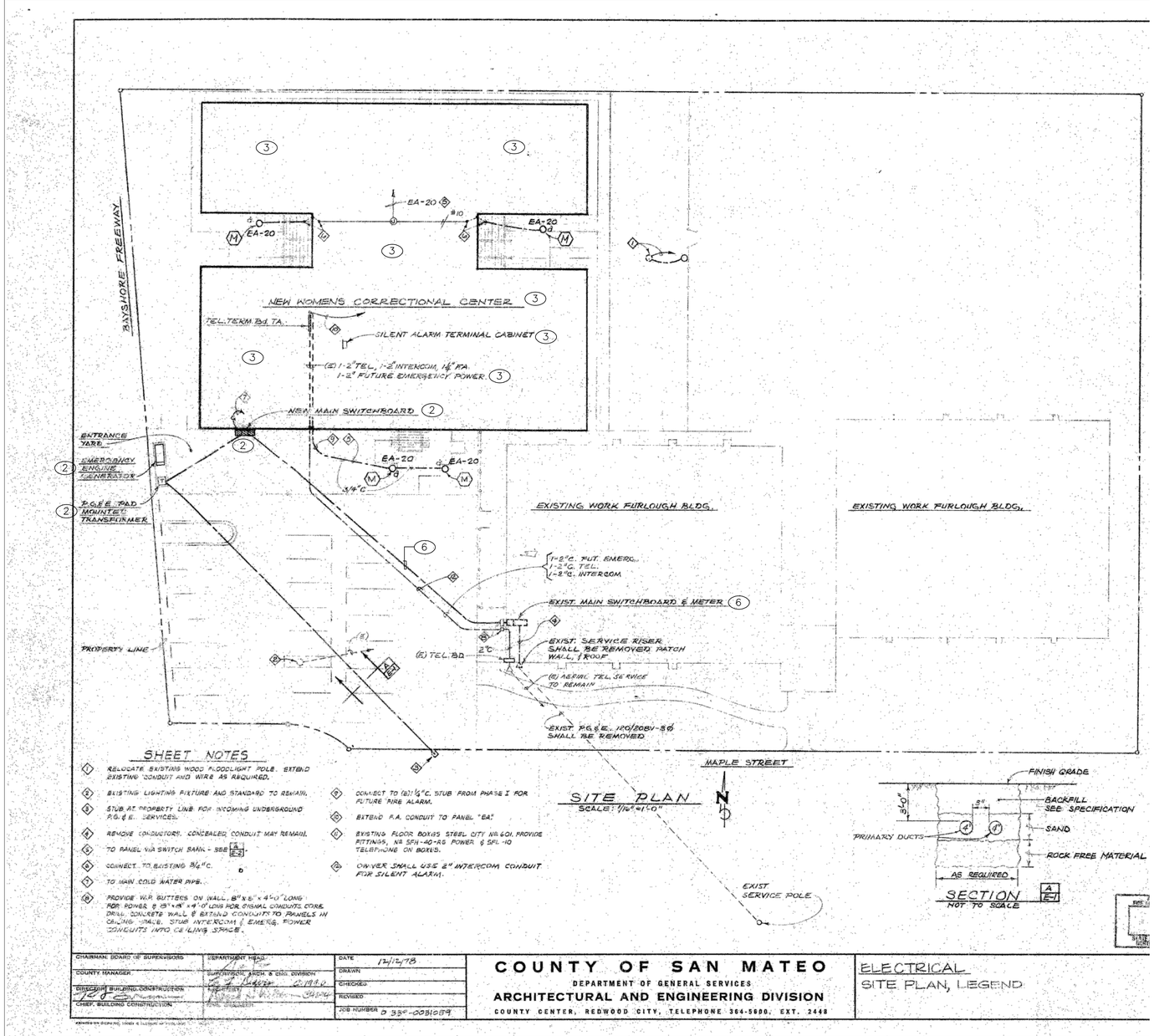
4	9.23.16	PLAN CHECK #2 ADDENDUM # 6

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: SE2



SITE PLAN
SCALE: 1/16"=1'-0"

SHEET NOTES

1. RELOCATE EXISTING WOOD FLOODLIGHT POLE. EXTEND EXISTING CONDUIT AND WIRE AS REQUIRED.
2. EXISTING LIGHTING FIXTURE AND STANDARD TO REMAIN.
3. STUB AT PROPERTY LINE FOR INCOMING UNDERGROUND P.G.&E. SERVICES.
4. REMOVE CONDUCTORS. CONCEALED CONDUIT MAY REMAIN.
5. TO PANEL VIA SWITCH BANK - SEE E-2.
6. CONNECT TO EXISTING 3/4"C.
7. TO MAIN COLD WATER PIPE.
8. PROVIDE W.P. GUTTERS ON WALL, 8"W x 8"D x 4'-0" LONG FOR POWER & 6"W x 6"D x 4'-0" LONG FOR SIGNAL CONDUITS CORE DRILL CONCRETE WALL & EXTEND CONDUIT TO PANELS IN CEILING SPACE. STUB INTERCOM & EMERG. POWER CONDUITS INTO CEILING SPACE.
9. CONNECT TO (E) 1¼"C. STUB FROM PHASE I FOR FUTURE FIRE ALARM.
10. EXTEND F.A. CONDUIT TO PANEL "EA".
11. EXISTING FLOOR BOXES STEEL CITY NO 601. PROVIDE FITTINGS, NO SFH-40-AS POWER & SFL-10 TELEPHONE ON BOXES.
12. COVER SMALL USE 2" INTERCOM CONDUIT FOR SILENT ALARM.

CHAIRMAN, BOARD OF SUPERVISORS	DEPARTMENT HEAD	DATE 12/12/78	COUNTY OF SAN MATEO DEPARTMENT OF GENERAL SERVICES ARCHITECTURAL AND ENGINEERING DIVISION COUNTY CENTER, REDWOOD CITY, TELEPHONE 364-5600, EXT. 2448
COUNTY MANAGER	SUPERVISING ARCH. & ENG. DIVISION	DRAWN	
DIRECTOR, BUILDING CONSTRUCTION	CHIEF, ELECTRICAL DIVISION	CHECKED	
CHIEF, BUILDING CONSTRUCTION		REVISED	
		JOB NUMBER D 33°-0031089	

ELECTRICAL
SITE PLAN, LEGEND

1 Existing Jail Building Electrical Site Plan - Demolition

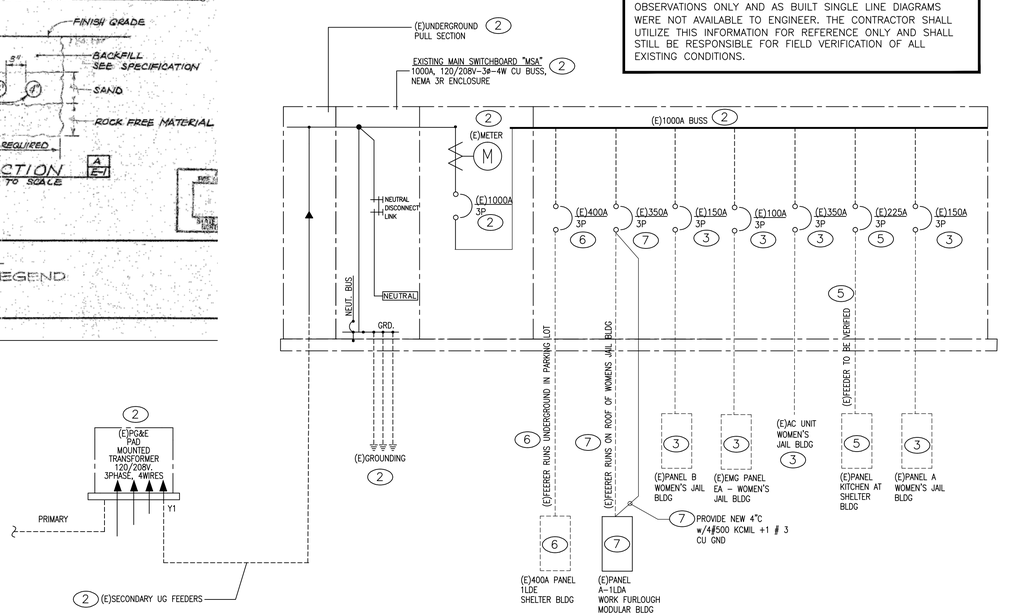
NOT TO SCALE

KEYED SHEET NOTES:

1. THE PLAN SHOWN ON THIS SHEET IS TAKEN FROM AVAILABLE RECORD DRAWINGS DATED 1978 FOR THE EXISTING WOMEN'S JAIL BUILDING WHICH SHALL BE DEMOLISHED AS PART OF PHASE ONE OF THIS PROJECT. THE CONTRACTOR SHALL PERFORM THE NECESSARY SITE VISITS TO FIELD VERIFY EXISTING CONDITIONS AND SHALL NOT RELY ON THIS DRAWING FOR 100% ACCURATE AS BUILT CONDITIONS.
2. THE EXISTING 1000A SERVICE AT 120/208V-3PH-4W AT WOMEN'S JAIL BUILDING, THE EXISTING OUTDOOR SWITCHGEAR WITH NEW 3R ENCLOSURE, THE EXISTING PAD MOUNT PG&E UTILITY TRANSFORMER, AND THE EXISTING EMERGENCY GENERATOR SET NEXT TO TRANSFORMER SHALL REMAIN.
3. THE CONTRACTOR SHALL DEMOLISH AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, WIRING, CIRCUITS, CONDUITS, LIGHTING FIXTURES INSIDE OF THE EXISTING WOMEN'S JAIL BUILDING. DISCONNECT AND SAFE OFF THE BREAKERS ASSOCIATED WITH THE BUILDING AS SHOWN ON SINGLE LINE DIAGRAM BELOW – VERIFY IN FIELD.
4. THE CONTRACTOR SHALL DEMOLISH AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, WIRING, CIRCUITS, CONDUITS, LIGHTING FIXTURES INSIDE OF THE EXISTING WOMEN'S JAIL BUILDING. DISCONNECT AND SAFE OFF THE BREAKERS ASSOCIATED WITH THE BUILDING AS SHOWN ON SINGLE LINE DIAGRAM BELOW – VERIFY IN FIELD.
5. THE CONTRACTOR SHALL DEMOLISH AND REMOVE EXISTING FEEDER FROM MSA TO EXISTING PANEL AT KITCHEN IN ADJACENT SHELTER BUILDING. VERIFY LOCATION OF PANEL IN SHELTER BUILDING AND DEMOLISH AND REMOVE THIS PANEL AND ALL ASSOCIATED CIRCUITS, WIRING, CONDUITS. SAFE OFF EXISTING 225A/3P BREAKER IN EXISTING MSA.
6. EXISTING UNDERGROUND 400A FEEDER AND EXISTING 400A/3P BREAKER AT MSA, AND EXISTING PANEL 1LDE IN ELECTRICAL CLOSET IN SHELTER BUILDING TO REMAIN DURING PHASE 1 OF PROJECT.
7. EXISTING FEEDER AND (E)4"CONDUIT THAT RUNS FROM MSA TO EXISTING MODULAR WORK FURLOUGH BLDG SHALL BE DEMOLISHED UP TO EXTERIOR JUNCTION/PULL BOX OUTSIDE OF WOMEN'S JAIL BLDG. THE EXISTING 350A/3P BREAKER SHALL REMAIN AND SHALL BE RECONNECTED TO A NEW UNDERGROUND FEEDER FROM MSA TO THE MODULAR WORK FURLOUGH BUILDING. THIS WORK SHALL BE DONE UNDER PHASE 1B OF PROJECT ALONG WITH RECONNECTING GAS LINE TO SAME BUILDING FROM EXISTING GAS METER . THE EXISTING 4-INCH CONDUIT RUNS ABOVE WOMEN'S JAIL BLDG AND RUNS DOWN TO EAST SIDE OF BLDG AND UNDERGROUND TO MODULAR WORK FURLOUGH BLDG.

SINGLE LINE DIAGRAM NOTES:

THIS SINGLE LINE DIAGRAM IS RECREATED FROM VISUAL OBSERVATIONS ONLY AND AS BUILT SINGLE LINE DIAGRAMS WERE NOT AVAILABLE TO ENGINEER. THE CONTRACTOR SHALL UTILIZE THIS INFORMATION FOR REFERENCE ONLY AND SHALL STILL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS.



2 Existing Jail Building Single Line Diagram - Demolition

NOT TO SCALE

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

Jail Building
Electrical Site Plan - Demolition Work

◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLDG SUBMITTAL 1
2	8.15.16	PLAN CHECK # 1 ADDENDUM # 3
3	8.25.16	ADDENDUM # 5
4	9.23.16	PLAN CHECK #2 ADDENDUM # 6

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: JDE-1 4