August 19, 2016

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

Issued on August 19, 2016

Bid Due Date: August 25, 2016

TO ALL PLAN HOLDERS:

The following Addendum No. 3 to the above referenced project shall be included in the project Plans and Specifications.

A. General:

Item 1: The project shall be a two phased project. See Phasing plans on Sheet A1,2 and Tantech Engineers MEP phasing narrative attached.
Phase 1 includes all work to be completed on the left side of the facility and that which can be completed in the Dining/Commons area. The Phase 1 area work shall be fully completed and operational prior to starting Phase 2 work in the right side of the facility. The project duration will be extended from 270 calendar days to 420 calendar days.

Item 2: Regarding existing furniture/appliance removal with in the project:
RESPONSE:

a. The County will remove all non-secured items including beds, non-secured shelves, weightlifting equipment, desks, chairs, tables and outside picnic tables, and used paint or cleaning supplies.
b. The Contractor shall remove and dispose of all remaining appliances including walk in refrigerator, icemaker, rolling refrigerator/freezers, range, range hood, dishwasher and kitchen equipment, washers/dryers, and 7' high ply dorm partitions. See 1998 renovation drawings on the County's website for reference.

Item 3: General Conditions 6.2G states that the Contractor is responsible for all utility costs? Will there be separate metering for adjacent occupied areas?
RESPONSE: The Owner will be responsible for utility costs throughout the project. No separate metering

Item 3: General Conditions 6.5A states that the contractor is to pay for all permits, is this correct?
RESPONSE: The County will be responsible for permit costs throughout the project.

Item 4: General Conditions 9.2E requires All Risk Property insurance? How will this be coordinated with adjacent spaces being used?
RESPONSE: The Contactor shall provide all insurance requested.

Item 5: Contractor Comment: Sub list on Page 4 of the Proposal should also require a DIR#
RESPONSE: Complete the subcontractor list as required. See also Bidder's Instructions.

B. Specifications, attached where noted :

Item 1: 03300 notes that 03320 should be referenced for polished concrete floors.
RESPONSE: Disregard reference to polished concrete floors

Item 2: Disregard Table of Content reference to Specification Sections:
a. 03400 Precast Concrete;
b. 03410, Precast Concrete Steps and Floors.

Item 3: Attached specifications were omitted from the Project Manual and are attached for inclusion in the project:
a. 07210, Batt and Spray Foam Insulation. Reissued with some product and location clarifications
b. 08800, Glass and Glazing;
c. 10100, Visual Display Boards
d. 10500, Pet Kennels, Lockers
e. 10650, Accordion Partition
f. 12500, Furnishings
g. Cubicle curtain track and curtains. Provide Clickeze straight and curved Whisper Cube curtain track and Clickeze EZE-Swap Curtains, 7' cutains with 12" of mesh at the top. Curtain to extend to 12" AFF.

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

Item 1: Drawing revisions or sheet additions have been made that are clouded and identified by a Delta 2 including but not limited to: a Phase 1 and Phase 2 plan, ADA access, rated corridors, rated ceiling and other required plan check revisions.

Item 2:. Original building drawings and 1998 Renovation drawings are provide on the County's website for Contactor reference

D. FIRE EXTINGUISHERS, See Sheet A-2.1, A-2.2 for locations :

Item 1:. (FE 1) ABC Multi-Purpose Dry Chemical, Potter-Roemer No. 3005, 5 lb., UL 2A:10B:C, 15 1/4" x 4" dia. Provide in a Potter-Roemer No. 7008-A-RED, semi-recessed, clear full tempered safety glass, powder-coated red finish door and frame, box white finish.

Item 2: (FE 2) ABC Multi-Purpose Dry Chemical, Potter-Roemer No. 3005, 5 lb., UL 2A:10B:C, 15 1/4" x 4" dia. Provide in Potter-Roemer No. 7009-A-RED, surface mounted, clear full tempered safety glass, powder-coated red finish door and frame, box white finish
.

Item #3: (FE 3) ABC Multi-Purpose Dry Chemical, Potter-Roemer No. 3262, 2.5 gal / 9.46 liter, Class K wet chemical " Kitchen Use" 2A:K, 15 24-1/2" h" x 7" dia. Potter-Roemer No. 7027-A-RED, semi-

recessed, clear Full tempered safety glass, powder-coated red finish door and frame, box white finish

Item #4 : At recessed in wall fire extinguishers, frame and wrap the wall recess with Type X GWB to maintain a rated wall condition.

D. OTHER CONTRACTOR QUESTIONS :

1. Q : We cannot find any location tags for the details on sheets S3.6 or S3.7, so we cannot quantify how many times these details are needed. Can you please clarify.

   RESPONSE: There a several notes on Sheet S2.4 that identify the number of locations and counts where the subject details occur and that include counts for the components that are included in the detail work. Each occurrence is also shown on the plan.
2. Q: My insulation contractor is noting on Sheet A7.5 the details show 2" spray insulation. But the specification is calling out 5.5" of spray insulation. Can you please clarify how much spray insulation is required?

   RESPONSE: See revised sheet A7.5. Wall details have been revised to show 1-1/2" spray foam insulation between 1-1/2" hat channels at the existing exterior walls. The spec has been revised to reflect the same. The existing roof framing is to receive 5-1/2" spray foam insulation with the specified spray coat thermal barrier.
3. Q: It appears that the bid forms and documents are the County's "standard forms", and not project specific. The project name, address, number and bid date are not specifically indicated (see attached). Please advise if you intend to revise it, or we can go ahead and use the forms as attached to the project manual.

   RESPONSE: Bid forms will be revised and issued as part of future Addendum #_4_
4. Q: Your plan Sheet A-1.2 indicates trees to be removed with words such as "Remove Acacia" (top right hand side of plan sheet. There are a number of other trees on this plan sheet which are also indicated to be removed with the words "Remove Tree" or "Remove Trees". There are other trees with an "x" through them which have no wording to indicate they are to be removed and the legend on the left side of the plan sheet has no mark for a tree with an "x" through it that indicates what this means. Can you please clarify whether trees marked with an "x" but otherwise have do not have any indication as to whether they are to be removed should be removed. Also, are the stumps to be removed for all trees that are removed?

   RESPONSE : See revised sheet A1.2 with the trees to be removed shown with an "X" and an indication that the stump shall be ground out as well.
5. Q: it appears that the drawings are showing both wood studs A4.3, A4.4 and metal studs A7.5, S2.2, can you please clarify which stud material would be used for this project.

   RESPONSE : All new walls shall be framed with metal studs, not wood. Details have been revised

6. Q: Can you advise if there is any Audio Visual (C-7) work on the above referenced project?

RESPONSE : No there is not Audio Visual work scope.

7. Q: I didn't see anything on the specs or called out on the plans for window coverings, do you know if you in fact need a window covering price?

   RESPONSE: There are no window coverings in the project

8. What type of partitions separate the beds?
   RESPONSE: See added Spec section 12500

9. Q:.Are all walls full height with drywall on each side?
   RESPONSE: Yes, all walls (corridor, toilet room, dorm and office walls) to the underside of 2 layers 5/8" Type X GWB that will be applied to the ½" shear ply on the underside of the existing joists/trusses

10. Q: A7.6, detail 5 shows what looks like RC-1, is this required at the ceilings?
    RESPONSE: Deleted

11. Q:Drywall at ceilings for 1 hour fire protection only shows on one side of the building, both sides have a 1 hour corridor.
    RESPONSE: Yes, Per Question 9 above, provide 2 layers 5/8" Type X GWB to underside of shear ply at both sides of the building and at the Dining/Commons area.

12. Q: Several notes call out ½" drywall, is this correct?
    RESPONSE: 5/8" Type X typical at all walls and ceilings

13. Q: There is no finish schedule on the drawings. Should the flooring subs assume the Ucrete floor goes in all the wet areas, and the "Nora" sheet flooring goes everywhere else?
    RESPONSE: See Finish Schedule, Sheet A-8.2

14. The painters are asking about the finish on the wood doors, and a paint schedule for interior walls.
    RESPONSE: Wood doors shall be painted. See also Sheet A-8.2 and Spec section 09900.

15. Q: Demo Plans are vague, at the site walk it was said that this would be clarified, what items need to be removed by the contractor in the building. Also the current plans do not indicate any demolition of the floors, ceilings or lighting for that matter. I believe this was to be a gut back to the shell. Can you please clarify the demo scope?
    RESPONSE: Regarding what items are to be removed from the building and by whom, see General Item #2, Addendum 3, above.
    Yes per comment above, the project is a complete gut back to the existing concrete slab, to the existing concrete wall and to the bottom edge of the joists between trusses, remove attic insulation, other extraneous items in attic. See Sheet A 1.2 Demolition Plan which has been clarified

16. Q: Phasing Plan, during the site walk it was said that a Phasing Plan would be issued with addendum 2, Since it did not accompany that Addendum, will it be issued?
    RESPONSE: See Sheet A1.2 Site, Phasing and Demolition Plan as well as Tantech

Engineers MEP phasing narrative attached.

17. Q: The Structural Drawings states that the Cabana is to be framed from DF #1 with 4 Trusses @ 8' O.C. Architectural Shows All Redwood Framing with Trusses @ 2' O.C. Please indicate which is the plan we are to use.
RESPONSE: Framing is DF#1, (RS) on plan identifies wood type as rough sawn. Trusses and purlins are coordinated with structural plan.

18. Q: Will a Hazmat plan be issued to clarify the hazmat report?
RESPONSE: No. Consult the report and the plans

19. Q: Detail 2/A7.5 shows 2" spray insulation and A2.8 & A72 call out 1.5" furring and insulation. Please clarify which it is.
RESPONSE: Furring is 1-1/2", Detail 2/A-7.5 corrected.

20. Q: No Location is found to apply Detail 5/A7.6. Please indicate where this detail occurs.
RESPONSE: Detail 5 has been removed

21. Q: Sheet A6.1 provides no ceiling elevations, Can elevations be provided?
RESPONSE: T-bar ceilings are at 9'-0". Ceiling height notation added to A-6.1.

22. Q: Sheet A2.8 shows gyp board @ the underside of the Diaphragm between G-Lines F.1 to H.2, 1-6. . Detail 5/A7.2 calls the gyp cap @ all 1hr corridors. Please clarify how these two details work together
RESPONSE: The undersides of the joists or trusses throughout the project are to receive 2 layers 5/8" Type X GWB applied over the new ½" shear ply. All walls are to go to the underside of said GWB. See revised Detail 5/A-7.2

23. Q:No Location is found to apply Details 3 & 4 on sheet A7.2. Please indicate where this detail occurs.
RESPONSE: Believe the reference noted is incorrect. See revised Sheet A-7.2

24. Q: Please define the window sill material shown on 3/A7.5.
RESPONSE: Solid surface, Corian or equivalent. Detail revised.

25. Q: The wall sections on A4.3 and A4.4 do not match the wall size and material shown on A7.1. Please clarify.
RESPONSE: Stud sizes on A7.1 prevail.

26. Q: Please define where concrete curbs are required and their dimensions.
RESPONSE: See Sheet A-2.8. Curbs are drawn diagrammatically. Curb with matches the stud wall width. N the case of the case walls the curb width is the width if the chase.

27. Q: Please provide a room finish schedule, complete with floor, ceiling and wall finishes
RESPONSE: See Sheet A-8.2

28. Q: Structural Drawings are dated 6/17/16 and the Geo Report is dated 7/19/16. Does the structural design meet the geo reports requirements?
RESPONSE: Structural and Geo have coordinated.

29. Q: Sheet A1.4 notes a Redwood Trellis @ the entry, and a new 6' redwood fence & gate. Please provide a design.
RESPONSE: See Sheets A-2.4, A4.5, S2.1, S2.2 and S3.4 for trellis

30. Q: Please provide design for trash enclosure located along GLine-1.
RESPONSE: 6' high redwood fence with TS 6x6 Posts in concrete footings with redwood 2x6 horizontal members and 1x6 redwood fencing

31. Q: Please provide a detail for the flagpole foundation.
RESPONSE: 18" diameter x 36" deep concrete footing

32. 18. Please provide specifications for the Benches, Bike Racks, Planter boxes & Misc. Site Furnishings
RESPONSE: Provide the following site furnishings. All steel to be galvanized and powder coated. Attach to adjacent concrete slabs with wedge anchor fasteners.
    a. Six (6) DuMor 35 Series, 6' long, steel and wood benches
    b. Five(5) DuMor 130-50 130-50 x 90" bike racks with S-1 embed in a 12" dia x 30" deep concrete footing
    c. Four (4) DuMor 436-40SH-0001 trash/recycling receptacle
    d. Four (4) DuMor 129 steel ash urn

33. Q: Please Clarify where the Bid is to be dropped off: "Notice to Contractor" pg.1of2 states 400 County Center 1st floor and "Instructions to Bidders" pg.3of5 states Dept. of Public Works 5th Flr.
RESPONSE: 400 County Center, First Floor. Wil need to go through security to area where bids will be opened.

34. Q: Please clarify if the exterior of the building is to be painted.
RESPONSE: The entire exterior of the existing building and all new building exteriors are to be painted with the exception of the new CMU and corrugated metal roofing.
All new and existing painted interior surfaces are to be painted as well for a complete project.

35 Comment: Contractor is responsible for providing either fire treated wood 4x wood blocking or steel stud blocking for all wall mounted items including but not limited to furniture partitions, cabinets/counters, white boards, lockers, grab bars and other toilet/shower accessories

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. 3

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. 3 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

SECTION 07210 – BATT & SPRAY FOAM BUILDING INSULATION

1.00 - GENERAL

1.01 DESCRIPTION

A. Work included:

1. Rated fire wall mineral insulation
2. Thermal spray polyurethane foam insulation
3. Sound insulation

B. Related work specified elsewhere:

1. Cold Formed Metal Framing – Section 05400
2. Gypsum Drywall – Section 09250

1.02 DELIVERY, STORAGE AND HANDLING

A. Delivery: Deliver materials to job in manufacturer's original unopened packaging.

B. Storage: Store materials in a dry area, off the ground, protect from exposure from harmful weather conditions.

2.00 - PRODUCTS

2.01 MATERIALS

A. Insulation: Glass fiber Thermal Batt Insulation, packages labeled with manufacturer's name, thickness and R-value. (Owens-Corning Fiberglas or CertainTeed)

B. Insulation: Mineral fiber Thermafiber (SAFB) Sound Attenuation Fire Blankets (Owens-Corning or CertainTeed)

C. Insulation: Spray polyurethane foam insulation: Insulation, packages labeled with manufacturer's name, thickness and R-value. (Owens-Corning Fiberglas or CertainTeed)

E. Thermal insulation:

1. Exterior walls: Steel z-channel or metal stud furring on existing concrete walls: closed cell spray polyurethane foam insulation, medium density closed cell foam insulation, core density a nominal 2.0 pcf. 1-1/2" thick, R-value 9.8. Flame spread index <25; smoke index <450 per ASTM E84. Cover with 5/8" gypsum wall board

2. Attic at wood trusses/rafters: closed cell spray polyurethane foam insulation, medium density closed cell foam insulation, core density a nominal 2.0 pcf. 5-1/2" thick, R-value 37. Flame spread index <25; smoke index <450 per ASTM E84.
    a. As an alternative to UBC required 15 minute thermal barrier of ½" minimum gypsum board thermal barrier at open attic space where foam insulation is exposed, provide International Fireproof Technology, Inc. spray applied thermal barrier coating, DC315.
        i. Meets testing performed under NFPA 286, FM-4880, UL-1040 or UL-1715; DC315 is a Certified Warnock Hershey listed (WHI-No. 20947) and rated product which has passed certified testing for both the (UL-1715) "15-minute" Thermal Barrier and the NFPA 286 (AC-377) standards as an Ignition Barrier

ii. ICC-ES 3072 and CCRR10215 compliant or equivalent per CBC 2603.4.1.6

F. Sound Attenuation Fire Blanket (SAFB) Insulation: Sound and Fire rated wall insulation

1. At all Resident Dorm Rooms, Respite and Emergency Housing Rooms, Exam Room, Corridors and Office Ceilings: Lay over full extent of suspended ceiling grid. Owens-Corning Sound Attenuation Batt Insulation (SAB),Unfaced, 24" width, 108" length, 3 1/2" thick. Conform to ASTM C 665, Type I and ASTM E 136.

2. At all fire rated Resident Dorm Rooms, Respite and Emergency Housing Rooms Exam Room, Hall and Office party walls as shown on the Drawings: Owens-Corning Sound Attenuation Batt Insulation (SAB),Unfaced, 16" width, 108" length, 3 1/2" thick. Conform to ASTM C 665, Type I and ASTM E 136 Thickness as specified for Thermal insulation.

3.00 - EXECUTION

3.01 A. Inspect areas in which insulation materials will be installed. Verify that no condition exists which will prevent installing materials as specified.

B. Do not install materials until conditions are satisfactory.

3.02 INSTALLATION

A. Thermal insulation: Install between furring, studs, or roof joists as shown. Where pipes, conduits, electrical boxes and the like are encountered insulate between exterior face and obstruction, compressing the insulation as necessary.

B. Sound attenuation insulation:

1. Walls: Install in stud walls as shown. Where pipes, conduits, electrical boxes and the like are encountered insulate around them, compressing insulation as necessary.

2. Ceilings: Lay insulation at ceilings over T-bar grid/ tile or gypsum board ceiling on framing as shown. Attach to framing and/or support with wire mesh or other approved method.

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SECTION 08800 - GLASS AND GLAZING

1.00 - GENERAL

1.01 DESCRIPTION

A. Work included:

1. Glazing material as shown on drawings and specified.

B. Related work:

1. Architectural Woodwork – Section 06400.
2. Hollow Metal Doors – Section 08100.

C. Work Not Included:

1. Glazing in Aluminum Entrances and Storefronts – Section 08460
2. Glazing in Aluminum Windows – Section 08520.

1.02 STANDARDS

A. Glass: Comply with ASTM C 1036-90 Standard Specification for Flat Glass and ASTM C1048-91 for Heat-Treated Flat Glass.

B. Glazing: In accordance with the standards of the Flat Glass Marketing Association (FGMA) Glazing Manual, current edition.

1.03 DELIVERY, STORAGE AND HANDLING

A. Deliver, store and handle glazing materials and accessories in a manner to prevent damage and deterioration.

B. Provide packaging such as cardboard or other containers, separators, banding, spreaders and paper wrappings to protect glazing materials.

C. Deliver glazing compounds in manufacturer's sealed containers.

D. Follow storage and handling requirements of manufacturer.

E. Protect exposed finish surfaces of prefinished items.

1.04 WEATHER CONDITIONS

A. Do not perform glazing in damp or rainy weather.

2.00 - PRODUCTS

2.01 GLASS MATERIALS

A. Wire glass: Type II, bronze tint at exterior, clear at interior, Form 1 (wired, polished both sides), quality q8, M2 (square).

B. Insulating glass: Sealed Insulating Glass Units, Low-E glass PPG Solarban 60, nominal 1" thick, bronze tint at exterior, clear at interior. Comply with ASTM E 774.

C. Tempered glass: Comply with ASTM C1048-91, Kind FT (fully tempered), Type I (transparent, flat), bronze tint at exterior, clear at interior, quality q5, 1/4" thick.

1. Sizes and cutting:

a. Prior to tempering or heat treating, cut glass to required sizes as determined by measurements of openings to be glazed, making allowances for required edge clearances.

b. Cut and process edges in accordance with glass manufacturer's recommendations.

c. Strengthen by manufacturer's standard full tempered process, increasing flexural strength to not less than 5 times the strength before treatment. Do not permit warpage in excess of industry standard.

D. Setting blocks: Neoprene or EPDM with a Shore A durometer hardness of 85 +5, 0.1" length per sq. ft. of glass area, not less than 4".

E. Glazing tape: Pre-formed, butyl-based elastomeric tape with solids content of 100%, nonstaining and nonmigrating in contact with nonporous surfaces, as recommended by tape and glass manufacturer. Comply with ASTM C 1281 and AAMA 804.3. Norton Thermal bond V2100.

F. Glazing compound: Dow Corning 795 Silicone Building Sealant, one part, cold applied, non sagging silicone material. Comply with ASTM C 920, Type S, Grade NS, Class 25. Color as selected.

2.03 FABRICATION

A. Fabricate glass: In sizes required to glaze openings with edge and face clearances, edge and surface conditions, and bite complying with product manufacturer's instructions and reference standards.

3.00 - EXECUTION

3.01 INSPECTION

A. Examine surfaces and/or materials to receive glass for conditions that will adversely affect execution, performance or quality of work.

B. Do not start work until conditions are satisfactory.

3.02 PREPARATION

A. Field measurements: Take measurements of openings before glass is fabricated, cut or shipped to site.

B. Preparation of surfaces: Frames, gaskets and glass clean and dry before glazing.

3.03 INSTALLATION

A. General requirements:

1. Manufacturer's labels: Showing strength, grade, thickness, type and guality required on each piece of glass. Labels shall remain on glass until it has been set, inspected and approved. Absence of label will constitute cause for rejection.

2. Surfaces receiving glass: Clean, dry and free of foreign matter. Prepare, clean and prime (as required) surfaces to which tape or sealant is to be applied in accordance with manufacturer's recommendations.

3. Stops for glazed openings: As furnished with doors.

4. Glass installation: Install glass types in locations as shown. All adjacent glass in the same glazed areas shall be consistently of one type and thickness unless otherwise noted.

5. Tempered glass: Install as noted and in compliance with safety glazing regulation.

B. Glazing:

1. General: Conform to applicable portions of Flat Glass Marketing Association "Glazing Manual" and California Building Code. Perform no work at temperatures below 50°F. Check dimensions of openings to be sure that adequate clearances are maintained on all 4 sides at perimeter. Shop cut all glass, cut clean, straight edges, free from chips and fissures. Clean fixed stops, glass edges, and applied stops, of dust, dirt, oil or other debris before glazing.

2. Doors and windows: Run glazing compound in alignment with edge of stops, with surface smooth and even. Provide setting blocks and spacer blocks when setting glass over 24" wide. Use of blocks on smaller lights is optional. Remove reset glazing beads or stops carefully to avoid marking or defacing any portion of frames or stops. Set glass in gaskets per door or window manufacturer's recommendations.

3. Spacers: Provide for glass sizes larger than 50 united inches (length plus height).

4. Edge blocking: Provide to comply to requirements of referenced glazing publications, unless otherwise required by glass manufacturer.

3.04 CLEANING AND REPLACEMENTS

A. Labels: Remove nonpermanent labels and clean surfaces.

B. Cleaning: Upon completion of glazing work, clean glass surfaces, remove paint spots, and other defacements. Cleaning solution shall not etch or stain painted or finished surfaces, or affect the glazing compound.

C. Replacement: Replace cracked, broken and imperfect glass at no cost to Owner. Protect all glass against damage.

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SECTION 10100 – VISUAL DISPLAY BOARDS

1.00 GENERAL

1.01 DESCRIPTION

A. Work included:
1. Marker Boards

1.02 SUBMITTALS

A. Shop drawings: Prior to fabrication, submit shop drawings for approval of all items specified.

B. Brochures: Submit manufacturer's brochures or product literature for approval prior to purchase. Literature shall include all necessary information for determining compliance with specifications.

1.03 PRODUCT HANDLING

A. Delivery: Deliver manufacturer's materials in original packaging.

B. Storage: Store materials in dry protected areas. Protect from damage. Remove damaged items from site and replace at no cost to Owner.

1.04 WARRANTY

A. Submit "Life of Building" warranty, stating that under normal usage and maintenance and when installed in accordance with manufacturer's instructions and recommendations, porcelain enamel steel Marker Boards are guaranteed for the life of the building. Guarantee covers replacement of defective boards but does not include removal or replacement cost.

2.00 PRODUCTS

2.01 MATERIALS AND EQUIPMENT – VISUAL DISPLAY BOARDS

A. General: All materials and equipment new and the best of their respective kinds, free from defects and of brand and quality specified or as approved.

B. Anchorage devices: Furnish and install all anchorage devices as required to secure all items to the construction, as detailed or as necessary to install the item complete.

C. Dry Marker Board: LCS Marker Board,white writing surface, factory built, face sheet 24 gage steel, core material 3/8" particle board, backing .002" aluminum foil, laminations hot-type neoprene contact adhesive applied to both surfaces automatically.(Claridge Products and Equipment Inc.)

1. Metal trim: Series 4, 5/8" wide trim, heavy gage extruded aluminum, anodized satin finish.

2. Chalktrough: Standard continuous, solid type aluminum chalk tray with ribbed section and injection moulded end closures.

3. Map rail: Standard continuous 1" map rail with cork insert and end stops at top of each marker board.

4. Map hooks: 2 for each 4 ft. of map rail.

5. Provide in the following quantities and sizes. Three (3) 4'x8'; Nine (9) 4' x 6'

3.00 EXECUTION

3.01 INSTALLATION

A. Delivery: Deliver factory-built units completely assembled in one piece without joints wherever possible.

B. Installation: Install level and plumb, in accordance with manufacturer's instructions, keeping perimeter lines straight.

3.02 ADJUST AND CLEAN

A. Accessories: Verify that all required accessories are installed for each unit.

B. Cleaning: Clean surfaces and trim in accordance with manufacturer's recommendations, leaving all materials ready for use.

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SECTION 10500 – PET KENNELS, LOCKERS

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Pet Kennel Isolation Panels and Fencing Runs

B. Small Pet Kennels

C. Kennel Plastic Lockers

D. Employee Metal Lockers

1.2 REFERENCES

A. ADA – Americans with Disabilities Act of 1990
   1. ADA Standards – ADA Title II Regulations and the 2013 ADA Standards for Accessible Design.

B. California Building Code, 2013.

C. ASTM A510 General Requirements for Wire Rod and Coarse Round Wire, Carbon Steel.

1.3 SUBMITTALS

A. Submit under provisions of Section 01300.

B. Product Data: Manufacturer's printed data on products to be furnished.

C. Shop Drawings: Complete layout and fabrication drawings.

D. Samples: Finish color samples for selection.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Mason Company: Pet Fencing and Runs; Division panels custom fit per the application and tapered to match the floor slope. With aluminum isolation channels that seal to the floor to prevent cross contamination.

B. Mason Company: Quiet Cottages Fiberglass Cages: Smooth molded fiberglass with gentle radius for easy cleaning

C. Salsbury Industries: Five tier lockers at Pet Kennel. Two tier metal lockers in Staff wing

2.2 PET FENCING AND RUNS

A. ALUMINUM FRAMED ISOLATION PANELS
   1. Panels shall be constructed of an outer framework of 6063-T52 aluminum U-channel 3/4" x 3/4" x 1/8" thick. Internal braces shall be 6061-T6 aluminum H-channels 1-1/2" x 3/4" x 1/8" thick.

2. Indoor_ .030" FRP bonded on each side of a .400" HDPE substrate 48" high. Solid panels to be perimeter sealed to the aluminum framework 8' high.
3. Outdoor -24 gauge (.024") galvanized steel sheet bonded on each side of a .400" HDPE substrate 48" high. Solid panels to be perimeter sealed to the aluminum framework 7-6" high.

B. SANI-SLOPE™ ALUMINUM SLOPED FLOOR MOUNTING SYSTEM AVAILABLE ON ALUMINUM FRAMED ISOLATION PANELS
1. Patented T-flange shall be made of solid extruded 6061-T6 aluminum. T-flange shall be 2-1/2" wide at its base and shall extend upward to a height of at least 3". Patented isolation panel bottom rail extrusion shall be made of solid 6061- T6 extruded aluminum and shall be dimensioned to fit over the T-flange so that the isolation panel can be leveled and secured. T-flange shall be sealed to the floor with provided silicone sealant.

C. SILVIS SEAL™ (AVAILABLE ON ALUMINIUM FRAMED FRP ISOLATION PANELS)
1. Patented Silvis Seal™ shall be a co-extrusion consisting of a rigid vinyl base and two flexible polyvinyl chloride (PVC) sealing ribs. Adhered to the top of the co-extrusion shall be two strips of 3M VHB double-sided tape. Each seal shall have an additional end blocker consisting of a strip of closed cell neoprene foam with 3M VHB double-sided tape on one side.

D. CHAIN LINK DIVIDERS AND BACK PANELS FRAMEWORK
1. Shall be made from Gatorshield® ASTM A500 structural grade steel tubing, 1.050" pipe size O.D. 0.94 pounds per foot weight (± 5%), 50,000 p.s.i. minimum yield strength. Lightweight tubing or galvanized schedule 40 pipe not permitted. The exterior surface shall be in line, hot-dip galvanized in molten zinc (zinc conforming to ASTM B-6) to a nominal weight of 0.8 ounces per square foot of surface as measured by the methods of ASTM A90. Additionally, the tubing shall be coated with a chromate rust inhibitor and a clear polymeric top coat. The interior tubing surface shall be completely and evenly coated with a full zinc-based galvanizing compound to ensure maximum corrosion resistant integrity. The resulting product will exhibit corrosion resistance at least 3 times (300%) greater than galvanized schedule 40 pipe (ASTM A-53-8) when tested in accordance with ASTM B117 standards. All corners on the frames shall be precision welded, ground, cleaned and given two zinc-rich coatings containing at least 95% pure zinc when dried and a single top coat of silver Rustoleum®. Panels installed on graded floors shall be manufactured to follow the slope. Ex: if taper in floor is 1-1/2" over 6' span, slope equals 1/4" per lineal foot of panel.

E. FABRIC & MESH
1. Fabric shall be woven from smooth-seal galvanized zinc wire,#9 gauge. The zinc coating shall be a minimum of 1.2 ounces of pure zinc per square foot of wire surface in accordance with ASTM A-641-91. All fabric shall be manufactured undersized by 1/4" to be fitted in the tubular frame. Fabric shall be stretched taut to the inside of the centerline of the frame under tension and shall be laced with #13 gauge wire at each intersection to the frame so that it remains tight. There shall be tie wires secured to all vertical braces. There shall be a uniform diamond square mesh of 1" between the parallel sides after weaving. All fabric ends shall be knuckled for safety.

F. CHAIN LINK GATES AND STALL FRONTS
1. Mesh shall be uniform 1" diamond squares in #9 gauge smooth-Seal. Gate hinges shall be made from malleable cast iron in accordance with ASTM A-47-77 Class 32510. Each clamp shall have two halves joined by 5/16" x 1-3/4" hot-dipped galvanized carriage bolt and nut. Hinges are factory installed and can be field adjusted if necessary.

G. TRANSFER DOORS
1. Vertical sliding doors shall be one of 1/4" thick Polymetal. Channels shall be solid extruded

aluminum 6063-T6. Doors are raised or lowered by pulling or releasing a 3/32" stainless steel wire cable that is secured to the top of the door. Transfer doors come equipped with cable, "S" hooks, pulleys, screw-eyes, and all necessary hardware for easy installation. Provide Optional cable guards made of 0.100" aluminum sheet and fastened to the channels with stainless steel screws.
Transfer door size: 24" high by 18" wide.

2.3 FIBERGLASS CAGES at KENNEL

A. Mason Company, fiberglass Quiet Cottages

1. Construction: smooth molded fibergalass with radiused corneres for ease of cleaaning.
2. Provide two (2) separate units: Model#9, three tiers high x two units wide with standard drains
3. Welded Stainless steel cage doors.
4. Dual point latching
5. Provide standard swivel type casters
6. Units have a front debris and liquid retention lip

2.4 PLASTIC STORAGE LOCKERS at KENNEL

A. Salisbury Industries 95000 Series Five Tier Plastic Lockers

1. Construction: water resistant high grade ABS plastic for strength and durability
2. Available as unassembled or assembled (additional charge for assembled lockers)
3. Available in a gray, tan or blue door finish with a dark gray body and compartment finish. Colors to be selected
4. Units: 73" high (adjustable legs can increase height to 74") and 18" deep
5. Compartment sizes that are 11" wide and 13 1/2" high
6. Provide: 1 optional compartment shelf per compartment
7. Provide: 3 wide units for a total of 6 units wide, five units high
8. Locker doors: 12" wide
9. Provide stainless steel hinges and a stainless steel hasp to accommodate user provided padlocks
10. Provide optional dark gray sloping hoods

2.5 METAL STORAGE LOCKERS at STAFF WING

A. Salisbury Industries 52000 Series Two Tier Metal Lockers

1. Construction: 16 gauge steel extra wide lockers
2. Double tier, 15" w x 15" d x 6' high with sloping hood, front and side bases
3. Available as unassembled or assembled (additional charge for assembled lockers)
4. Available in a gray, tan or blue door finish with a dark gray body and compartment finish. Colors to be selected
5. Units: 73" high (adjustable legs can increase height to 74") and 18" deep
6. Compartment sizes that are 11" wide and 13 1/2" high
7. Provide stainless steel hinges and a stainless steel hasp to accommodate user provided padlocks

PART 3 - EXECUTION

3.01 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Refer to drawings for layout and details.

C. Adjust doors smooth, easy operation.

END OF SECTION

SECTION 10650 – FOLDING PARTITION

1.00 - GENERAL

1.01 DESCRIPTION

A. Work included:

1. Folding partition: Manually operated, including hardware, track, trim, and finish material.

1.02 QUALITY ASSURANCE

A. Sound transmission classification: ASTM E90-70.

B. Fire hazard classification: Flame spread rating, Class A, not to exceed 25 for fabric cover. ASTM E84.

C. Noise isolation classification: ASTM E336, ASTM E413.

D. Design and construction of surrounding conditions: Per ASTM E557.

1.03 SUBMITTALS

A. Shop drawings: Submit, prior to fabrication, for approval by Architect, showing location and extent of folding panel partitions. Include plans, elevations, large-scale details of anchorages, and accessory items. Indicate unit conditions at openings, typical and special details, and location and installation requirements of hardware and operators. Indicate direction of travel and static and dynamic loading on the building structure.

B. Product certificates: Signed by manufacturer of folding panel partitions certifying that their products comply with specified requirements.

C. Samples: Submit samples of all finish materials for approval.

1.04 GUARANTEE

A. Guarantee: Furnish a guarantee of complete installation against defects in workmanship and materials for a period of 2 years from the date of acceptance.

1.05 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Delivery: Deliver materials to project site in original factory wrappings and containers, clearly labeled with identification of manufacturer, brand name, quality or grade, fire performance characteristics, and lot number.

B. Handling: Provide continued protection during and after installation.

2.00 - PRODUCTS

2.01 MATERIALS

A. Acceptable manufacturers: Hufcor and Modernfold. Specifications based on Hufcor.

B. Panel Folding Partition: Hufcor Series 2000, STC 20, top supported, paired panels.
Hufcor Inc., mfgrs. rep.
B.T. Mancini, Milpitas, CA, tel. 408-942-7900

1. Panels: Center hung, accordion partition nominally 7-1/2" wide in stacked postion" thick

2. Panel faces: Class A rated, gypsum laminated to appropriate substrates to meet the STC requirements.

3. Track: Type 15 Heavy duty exruded aluminum provides protection of the T-bar grid and tile.

4. Horizontal top seals: Continuous contact multi-ply vinyl.

5. Horizontal bottom seals: . Continuous contact multi-ply vinyl.

C. Weight of the panel: 1.3 lbs/ sq ft

D. Suspension system:

1. Track: Clear anodized architectural grade extruded aluminum ally 6063-T6. Track design shall provide integral support for adjoining ceiling, soffit. Track connected to the structural support by min. 3/8" dia. threaded steel hanger rods.

a. Each panel: Supported by one 4-wheeled carrier. Wheels of hardened steel ball bearings encased with molded polymer tires.

F. Finishes:

1. Face finish: Factory applied reinforced vinyl fabric with woven backing, weighing not less than 15 oz. per lineal yard. Color selected from manufacturer's standard color selector.

2. Frame and horizontal trim color: Brown.

A. Stack/Store panels: Retract seals with removable operating handle and move to storage area. Panels may be stored at either or both ends of the track.

2.02 ACOUSTICAL PERFORMANCE

A. Acoustical performance shall be tested at a laboratory accredited by the U.S. Dept. of Commerce, National Institute of Standards and Technology, under the National Voluntary Laboratory Accreditation Program (NVLAP) and in accordance with ASTM E90 Test Standards. Standard panel construction shall have obtained an STC 47 rating.

1. Complete, unaltered written test report is to be made available upon request.

3.00 - EXECUTION

3.02 INSTALLATION

A. Folding Partition:

1. The complete installation of the operable wall system shall be by an authorized factory-trained installer and be in strict accordance with the approved shop drawings and manufacturer's standard printed specifications, instructions and recommendations.

2. Install track by attaching to the suspension system.

3.03 CLEANING

A. Wipe clean all track and panel surfaces free of handprints, grease and soil.

B. Remove cartoning and other installation debris from the job site.

3.04 TRAINING

A. Demonstrate proper operation and maintenance procedures to Owner's representative.

B. Provide and Owner's manual to Owner's representative.

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SECTION 12500 – FURNISHINGS

1.00 - GENERAL

1.01 DESCRIPTION

A. Work included:

1. Beds
2. Nightstands
3. Cubicle Partitions

B. Related work specified elsewhere:

1. Electrical – Section 16050

1.02 QUALITY ASSURANCE

A. Manufacturer: All component products of a single manufacturer.

1.03 SUBMITTALS

A. Submit in accordance with Section 01300 Submittals:

1. Shop Drawings: Showing layout, dimensions, constructions, electrical wiring diagrams and method of anchorage.

2. Warranty: As required for review by Architect.

3. Installation: Manufacturer's instructions.

1.04 WARRANTY

A. Warranty: Provide per Section 01750 Project Close Out.

1. Beds, nightstand, partitions: Five years from date of completion.

2.00 - PRODUCTS

2.01 BEDS, MATTRESSES and NIGHTSTANDS

A. Manufacturer: Norix Group, Chicago 800-234-4900

B. Beds : Titan Bunkable Panel Base Bed , Model #TNT1212 two with laminated drawers below steel mattress deck

1. Bunkable panel base bed with steel deck. Base is mechanically fastened to steel end frames. End frames have plastic adaptor caps inserted into vertical members to allow bunking without additional parts or tools. Plastic foot

2. Fabrication & Material: Cut, formed, welded steel.
   a. Bed deck: 18 gauge.
   b. Body: 18 gauge.
   c. Gussets: 13 gauge.
   d. End frame legs: 16 gauge.

e. End frame cross-members: 16 gauge.
f. Headboard: 45# density M3 grade particle board with durable high-pressure laminate surface and 2mm PVC edge. Made in the U.S.A.

3. Performance Test Standards: Product tested to 800 lbs. static load.

4. Finish: Powder coated steel.

5. Steel Color: Ebony

6. Laminate Drawer: Wild Cherry (TNT1212 only).

7. Accessories:
   a. Headboard & footboard (Wild Cherry - Standard.
   b. Ladder. Safety rail. Floor anchor kit.
   c. Bunk lock clamps.

8. Quantities:
   a. Medical Respite Women: 8 beds total (single height)
   b. Medical Respite Men: 19 beds total (single height)
   c. Emergency Housing Women: 22 beds total (double height)
   d. Emergency Housing Men: 50 beds total (double height)
   e. Transitional Housing Women: 40 beds total (double height)
   f. Transitional Housing Men: 52 +24+ 24 = 100 total (double height)

C. Mattresses
   a. Norix, Comfort Shield Rescue Sealed Seam Mattress
   b. 100% sealed seam construction. Fire retardant, fluid resistant, anti-microbial, bedbug resistant
   c. Durable cover materials are fluid resistant
   d. Easy to clean and deodorize for greater infection control
   e. 11 oz. densified polyester core
   f. Cushioned comfort with no inner springs
   g. Breathable vent system repels oil, water, and bodily fluids
   h. Quantity: Match bed count above

C. Three Drawer Chest or Nightstand:

1. Three Drawer Chest #TNT 7139 with non-removable laminate drawers with a padlock hasp. 30"w x 24" d x 30"h. Color; Ebony/Cherry

2. Three Drawer Nightstand #TNT 2139 with non-removable laminate drawers with a padlock hasp. 20"w x 20"d x 25"h. Color; Ebony/Cherry

3. Quantities:
   a. Medical Respite Women: 8 - #TNT 2139 nightstand
   b. Medical Respite Men: 13 - #TNT 2139 nightstand
   c. Emergency Housing Women: 0
   d. Emergency Housing Men: 0
   e. Transitional Housing Women: 20 - #TNT 7139 chest
   f. Transitional Housing Men: 22+2+2 = 26 total #TNT 7139 chest
      4+4+4= 12 total #TNT 2139 nightstand

2.02 CUBICLE PARTTIONS

A. Manufacturer: Steelcase

B. Partitions : Montage series 96" high panels in various panel sizes to provide dividers between beds in the Transitional Housing / Medical Respite sleeping areas and between bunks in the emergency housing areas.

1. Paint Color: Standard Paint Group 1
2. Frame: Enhanced Monolithic Frames in 36"x86" (ZFM3686), 48"x86" (ZFM4886)
3. Panel Tiles: Laminate tiles
4. Junctions: I-Junctions (ZJI88), T-Junctions (ZJT888) & L-Junctions (ZJL88S), 86"
5. Brackets: Wall attachment bracket, Floor anchor bracket
6. Filler strips: Horizontal filler strips 36" (ZFF36) & 48" (ZFF48)
7. Top Caps: Extended steel top caps (ZTC84) @ locations where 36" & 48" frames are connected. Use standard top caps and junction caps in other locations.
8. Base covers: Include

3.00 - EXECUTION

3.01 COORDINATION

A. Coordinate layout with other trades particularly for electrical/data

3.02 INSTALLATION

A. Install furniture in accordance with approved shop drawings and manufacturer's instructions.

B. Attach to wall with anchors of size and type recommended by manufacturer.

3.03 FIELD QUALITY CONTROL

A. Operate drawers a minimum of 3 times to ensure proper operation. Adjust as required.

3.04 DEMONSTRATION

A. Demonstrate to Owner complete operation and required maintenance.

B. Submit operation/maintenance manual per Section 01750.

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TANTECH ENGINEERS. Inc.

August 3, 2016
Attention: Bill Gutsgell @ CJW Architects
Project: Lifemoves Maple St. Shelter
1580 Maple Street, Redwood City CA
Tantech: 1581.00
Subject: MEP Construction Phasing anaylsis
From: John Tankeh - Tantech Engineers

We have been informed that the project will occur in two phases. The Phase one will be the construction of the interiors of the building from column lines 1 thru 7. The Phase 2 will be the construction of the interiors from column 7 thru column 12 and the exterior work including the Pet Kennel, landscape improvements and smoking lounge areas. The areas between column lines 7 thru 12 will be occupied as is during phase 1 construction. The emergency generator set and new PG&E gas and electric service work shall be part of Phase One. New underground utility service laterals shall be done as part of Phase one.

We have the following recommendations:

ELECTRICAL - Phase 1

1. Commence demolition of interiors for areas between column lines 1 thru 7. This shall include lighting, power, panels, and low voltage wiring that do not affect areas between column lines 7-12. The 1968 plans indicate panels A,B and C are located between columns 1 and 2 and can be demolished as they serve interior circuits for lighting and power between column lines 1 thru 7. Contractor to verify as built circuiting before demolition.
2. The existing electrical closet shall remain intact including existing 400A/3P switchgear and main distribution board and existing underground feeder from Old Women's Jail Bldg. Any panels in closet to remain intact.
3. Existing Panels D and E between columns 7 and 8 per 1966 drawings to remain. We assume these feed power and lighting for areas between columns 7 and 8 – Contractor to verify. The panels are shown on 1968 plans to be in corridors outside of restrooms and showers core. Panel D subfeeds Panel E. Panel D is fed from 150A/3P breaker at main distribution board in closet at column line 1.
4. Existing Panel P, per 1988 plan, had been installed to feed two split heat pump HVAC systems, and feed power distribution between columns 7 and 12. Panel P is shown between column lines 7 and 8 in Emergency Office. Panel P is fed from 200A/3P breaker in existing main distribution board. Panel P to remain.
5. There are (6) electrical outlets shown on 1998 plans between col. 5 and 7 which are wired to panel P. These outlets shall be demolished and removed and wiring to be removed and safed off, 3 circuits on panel P are affected, Contractor to field verify.
6. New switchgear with Nema 3R enclosure per new plans to be installed along with new pad mount transformer, and new panelboards between column lines 1 thru 7. Panel EM, Panel EMX, Panel P1, Panel M, Panel M2 and Panel K shall be installed.
7. NEW Panel LR and P2 are shown between column 7 and 8 behind Laundry Room and shall be installed as part of Phase 2. However, conductors, conduits

and main breakers between main distribution board in MSB to area in Attic space above shall be installed with j-box terminations for future circuiting in Phase 2.

8. Lighting Circuits for fixtures between column lines 7 thru 12 shall not be circuited home run to Panel EM. However, these circuits for Phase 2 shall be extended with conduit and jbox terminations with conductors in attic space, to allow for future circuiting in Phase 2. See E2.2 and E3.2 for affected circuits.
9. Power distribution for Interiors shown on sheet E2.1 between column lines 1 thru 7 shall be installed.
10. Lighting systems, emergency egress lighting, exit signs, and fire alarm systems between column lines 1 thru 7 shall be installed.
11. Architect will design for temporary tunnel corridor between column 6 and 7 for path of egress during Phase One Construction, for temporary occupants between column 7 and 12. Provide lighting systems with controls and provide emergency power egress lighting in tunnel for duration of this temporary tunnel corridor.
12. Disconnect power and remove wires and conduits and feeders to any HVAC equipment in attic space between column lines 1 thru 7. Any existing HVAC equipment in Attic space between column lines 7 thru 12 shall remain intact during Phase One construction.
13. Disconnect and remove existing emergency generator outside main building including shed structure, concrete pad, conduits, wiring, and associated work. Furnish and install new emergency generator system with transfer switches and complete wiring.
14. Maintain existing emergency LTG fixtures and existing EXIT signs in areas between column lines 7 thru 12 and confirm they are with battery packs.
15. Run wires, and conduits for circuits that feed exterior lighting (Phase 2) and Pet Kennel and Smoking Lounge Areas (Phase 2) and stubout feeders with j-boxes for future extension and circuiting in Phase 2. Locate stubouts on exterior walls.
16. Coordinate installation of PG&E service upgrade work and PG&E infrastructure to coincide with Phase 1 schedule. The Contractor shall schedule and plan project to minimize downtime when new PG&E service is energized and when existing 400A service from Old Women's jail building is shut down.
17. Provide and install infrastructure for PG&E service including concrete pads, UG conduits, trenching, excavation, backfill, and repaving, and new switchgear with Nema 3R enclosure.
18. Furnish and install new fire alarm system, fire alarm control panel, and devices in areas between column line 1 thru 7. Keep old fire alarm panel and all fire alarm devices between column line 7 thru 12 intact until commencement of Phase 2.
19. Run power to all new HVAC equipment and water heaters on flat roof and in attic space per sheet E2.3. Run line voltage circuits to water heater controls in attic space for WHR-1 and WHR-2. Install lighting systems in attic space with circuiting, switching and OCC sensors. For water heater racks WH-3 and WH-4, and exhaust fan EF-3, the line voltage will be fed from panels that are in Phase 2 so the Contractor shall only run conduit, j-box and pullstring for future.
20. Complete power distribution to kitchen areas, EF-1, MAU-1, hood control panel and provide interlock wiring for hood ventilation system, ANSUL hood fire suppression system, gas solenoid valve, shunt trip breakers at hood, and interlock wiring to fire alarm systems.
21. Complete line voltage and interlock wiring for economizers and fans, and duct smoke detectors for all new rooftop AC units and MAU-1, including interlock with fire alarm system and interlock wiring for global shutdown per plans.

22. Complete line voltage and interlock wiring to fire/smoke dampers including interlock with fire alarm system for areas between column lines 1 thru 7.
23. Startup, test and energize new emergency generator system.

ELECTRICAL – Phase 2

24. Commence demolition of interiors for areas between column lines 7 thru 12. This shall include lighting, power, panels, and low voltage wiring for areas between column lines 7-12. Temporary exit tunnel between column 6 and 7 shall remain per Architectural plans for duration of Phase 2.
25. Demolish and remove all exterior lighting and outdoor power distribution – verify conditions in field.
26. Commence power distribution and lighting systems installation, circuiting of lighting, install LTG controls, install panels LR and P2, and all work for interiors between column lines 7 and 12 per plans.
27. Commence all power distribution to outdoor areas in Pet Kennel and Smoking Lounge, install and circuit lighting fixtures in same areas per plans. Complete power distribution and install all exterior lighting fixtures including pole mounted parking lot lights, bldg. mount exterior lights, landscape lighting and trellis lighting per plans.
28. Complete wiring and circuiting of water heaters WHR-3 and WHR-4 in attic space and of EF-3.
29. Shut down 400A service from Old Women's Jail. Demolish and remove existing panels and distribution section in closet between column 1 to 2. Remove wires and conduits remaining in building for this service.
30. Install lighting controls for areas between column 7 thru 12.

HVAC – Phase 1

31. Commence demolition and removal of all existing HVAC systems between column lines 1 thru 7, including ductwork, air distribution, piping supports, conduits, refrigerant piping, equipment, exhaust fans, hoods, grease ducts, makeup air units, roof fresh air intakes, roof supports, condensate drain piping, gas piping, diffusers, controls and thermostats.
32. HVAC Systems that serve areas between column lines 7 thru 12 shall remain intact temporarily until Phase 2 construction commences and occupants vacate.
33. Furnish and install new type 1 hood, fire rated enclosure duct wrap system, grease ducts and supports, hood control panel, low voltage interlock wiring for hood system, ANSUL fire suppression system for hood, EF-1 on roof with curb, MAU-1 in attic space with filters and intake hood on roof.
34. Furnish and install (10) new HVAC units on flat roof and exhaust fans and associated ductwork and air distributions systems for areas between column lines 1 thru 7. Install AC-7, AC-8, AC-9 and AC-10 with supports on roof and ductwork above roof and ducts thru roof. Cap off ducts in attic space for phase 2 construction. Provide power and gas piping for all AC units. Provide thermostats and controls for all units, with remote sensors for AC -7, AC-8, AC-9 and AC-10 to be installed under Phase 2. Mount thermostats in Office. Run low voltage wiring to future remote sensor locations for AC-7,8,9,10, rough in at attic space for future.

35. Mount duct smoke detectors and provide low voltage interlock wiring to each unit shutdown for all AC units and MAU-1. Provide remote test/rest stations for each detector.
36. Furnish and install ceiling fire smoke dampers for duct penetrations thru rated corridor tunnel construction between column lines 1 thru 7. Provide smoke detectors and remote test/reset stations for each unit.
37. Install water heater PVC flues and combustion air ducts with rooftop terminations for four water heater racks systems with common manifolds per plans. Flues and materials provided by plumber, installed by Mech Contractor.
38. Perform test and air balance of all new HVAC systems between column lines 1 thru 7. Replace all filters with new.
39. Rough in all dryer vent (aluminum material) work above ceiling for future dryers in Laundry room between column 7 and 8. The dryers will be installed in Phase 2. The dryer vent ducts above ceiling, in attic space and roof penetrations with roof jacks, gooseneck fittings, insect screen, and roof flashing will be done under Phase 1.
40. Rough in combustion air/fresh air duct above ceiling for future Laundry Room between column 7 and 8, with roof vent cap, curbed roof opening, roofing.
41. Install EF-3 on roof between column 9 and 10 with roof curb and duct down thru roof, cap off duct below roof (in attic) for phase 2.

HVAC – Phase 2

42. Commence demolition and removal of all existing HVAC systems between column lines 7 thru 12, including ductwork, air distribution, piping supports, conduits, refrigerant piping, equipment, exhaust fans, hoods, grease ducts, makeup air units, roof fresh air intakes, roof supports, condensate drain piping, gas piping, diffusers, controls and thermostats.
43. Furnish and install ductwork and air distribution below roof in attic space for AC-7,8,9 and 10, between column lines 7 and 12.
44. Complete wiring from thermostats to remote temp sensors for AC-7,8,9,10. Extend wiring from rough in at attic space to the sensor locations and install remote temp sensors between column lines 7 thru 12 per plans.
45. Furnish and install ceiling fire smoke dampers for duct penetrations thru rated corridor tunnel construction between column lines 7 thru 12. Provide smoke detectors and remote test/reset stations for each unit.
46. Perform test and air balance of all new HVAC systems between column lines 1 thru 7. Replace all filters with new.
47. Extend dryer vent ducts down in walls and connect to dryers with recessed dryer vent wall box.
48. Extend combustion/fresh air duct down to ceiling diffuser in Laundry Room.
49. Extend ductwork from EF-3 stub to the ceiling diffusers as shown on M2.1 for Phase 2.

PLUMBING – Phase 1

50. Commence demolition of interiors for areas between column lines 1 thru 7. This shall include sanitary sewer and vent lines, restroom fixtures, floor drains, hot and cold water piping, gas piping, and underslab piping. The Contractor to verify as built conditions before start of work.

51. Sawcut and remove existing slab between existing grade beams in areas as outlined on sheet P2.4 between column 1 thru 7. Excavate and remove existing underground waste and vent piping.
52. Demolish and remove existing storm drain lines between column lines 7 and 12, including underground lines between column 6 and 7. Demolish and remove existing roof drains, rainwater leaders, and downspouts. Replace with new roof drains, rainwater leaders in same locations, and connect to new underground storm drain lines outside building.
53. Demolish and remove existing plumbing lines for Kitchen and Laundry room between column 1 thru 3 - including grease trap, waste and vent piping, hot and cold water piping, and gas piping and washer and dryer plumbing services.
54. Keep existing domestic water service and distribution and branch lines intact in areas between column lines 7 and 12. The existing fixtures, restrooms, showers and water heaters between column 7 and 12 shall remain during Phase 1 Construction.
55. Keep existing gas service, gas meter and branch and distribution lines intact in areas between column lines 7 and 12. The gas piping to water heaters shall remain during Phase 1 Construction.
56. Keep existing water heaters between columns 7 and 8 intact during Phase 1 Construction, including venting, and HW distribution to fixtures and restrooms between column lines 7 and 12.
57. Proceed with new plumbing work for restrooms and showers and break room between column 1 thru 7 as shown on P2.1, P2.2 and P2.3.
58. Install kitchen floor drains, floor sinks, hot and cold water piping, gas piping, gas solenoid valve, waste and vent piping, grease waste piping, vents thru roof between col. 1 thru 7, outdoor grease interceptor.
59. Furnish and install four new water heater racks. Install hot and cold water distribution between column 1 thru 7.
60. Coordinate installation and scheduling of new PG&E gas service and gas meter to allow for existing gas meter to remain functional as long as possible before start of Phase 2 Construction. If needed, the new gas service can be used to do temporary feed of existing water heaters for a short period of time between when gas meter in installed and when Phase 2 Construction commences. Run gas line to water heater racks #3 and #4 as part of Phase 1.
61. Coordinate installation and scheduling of new domestic water service and meter to allow for existing water meter/service to remain functional as long as possible before start of Phase 2 Construction. If needed, the new water service can be used to do temporary feed of existing restrooms, showers and water heaters between column line 7 thru 12, for a short period of time between when water meter/service in installed and when Phase 2 Construction commences. HW and CW distribution between column lines 1 thru 7 shall be done under Phase 1. CW piping to water heater racks #3 shall be done under Phase 1, and HW distribution downstream of WH Rack #3 shall be done under Phase 2.
62. Coordinate installation and scheduling of new separate RECYCLED water service and meter to minimize impact to areas between column lines 7 thru 12. The purple pipe system can be installed between column lines 1 thru 7 including main pipe between column 7 and 9. Distribution of RECYCLED water system between column 7 thru 12 will be done under Phase 2, and distribution and branch piping between column 1 thru 7 will be done under Phase 1. Recycled water piping to WH Rack #4 shall be done under Phase 1 but distribution of recycled HW downstream of WH Rack #4 shall be done under Phase 2.

63. Underground sanitary sewer utilities for areas between column lines 7 thru 12 shall be done under Phase 2 – including work related to Pet Kennel.
64. Perform water test and water system chlorination of new domestic water line and service before start of Phase 2.
65. Provide the necessary shutoff valves to allow Phase 1 areas to remain operational while Phase 2 areas are vacated and Phase 2 demolition occurs.
66. Pour new slab and add reinforcement and dowels per structural plans for areas between column lines 1 thru 7.
67. Install gas piping and condensate drain piping above roof to HVAC equipment per sheet P2.4.
68. Provide gas branch pipe rough in with cap for future extension to clothes dryers, in attic space.
69. Disconnect and remove old gas meter and gas service, and disconnect and remove old water service and meter after occupants have moved from Phase 2 areas to Phase 1 areas.

PLUMBING – Phase 2

70. Commence demolition of interiors for areas between column lines 7 thru 12. This shall include sanitary sewer and vent lines, restroom fixtures, floor drains, hot and cold water piping, water heaters, gas piping, and underslab piping.
71. Sawcut and remove existing slab between existing grade beams in areas as outlined on sheet P2.4 between column 7 thru 12. Excavate and remove existing underground waste and vent piping.
72. Proceed with new plumbing work for restrooms and showers and Laundry Room between column 7 thru 12 as shown on P2.1, P2.2 and P2.3. Run new underground sewer laterals as shown on plans.
73. Excavate and prepare site for new Pet Kennel pad and plumbing. Trench and excavate for new underground sewer and water lines to Pet Kennel from Main building. Install new sanitary waste line all the way to the street lateral connection. Install plumbing systems per sheet P2.5.
74. Complete HW piping distribution from WH Rack #3 to plumbing fixtures and showers. Complete RECYCLED HW piping distribution from WH Rack #4 to plumbing fixtures and to clothes washers. Complete water heater systems installation with condensate drain piping, and all other piping. Complete RECYCLED CW distribution to restroom fixtures and to clothes washers.
75. Pour new slab and add reinforcement and dowels per structural plans for areas between column lines 1 thru 7.
76. Extend gas piping from stubouts in attic to the clothes dryers.
77. Perform water test and water system chlorination of new domestic water line and service between columns 7 thru 12.
78. Install plumbing systems for Pet Kennel per sheet P2.5.

We hope this report meets your needs. Please call if you have questions.

LifeMoves Maple Street Shelter

BUILDING DEPARTMENT RESUBMITTAL 08-19-16

Friday, August 19, 2016 1:18 PM

ABBREVIATIONS

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	W.P.J.
WINDOW	WDW.
WITH	W/
WITHOUT	W/O.
WOOD	WD.

SYMBOLS LEGEND

- SECTION NO. / DWG. NO. (1 / A5.0)
- ELEVATION NO. / DWG. NO. (1 / A4.0)
- DETAIL NO. / DWG. NO. (1 / A8.0)
- DOOR TYPE / HARDWARE GROUP (D1 / 2)
- WINDOW TYPE (W1)
- DIMENSIONS TO FACE OF STUD OR WALL (3'-2 1/8")
- DIMENSION TO CENTERLINE (3'-2 1/8" ℄)
- REVISION (R)
- 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 ASSEMBLIES:	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	+	1919	+	2557	+	5404	7961+ 5070	+ 723	=	?
UNLIMITED		24,000		36,000		28,000		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)

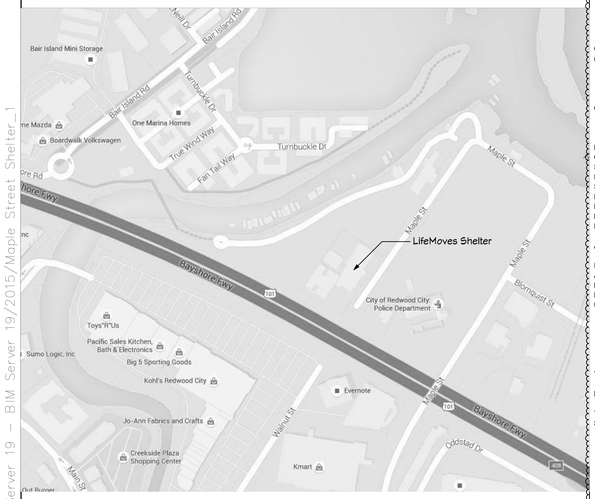
Project Scope:
Seismic upgrade, tenant improvement, project with the complete demolition and renovation of approximately 18,000 SF of interior space utilized by the LifeMoves Maple Street Shelter.

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 Team 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 existing 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

2

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

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GENERAL NOTES

1. CODE COMPLIANCE:
1a. Contract and Construction Documents include: AIA Document A201 (2007), the General Conditions of the contract for Construction.

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 Report By:

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 thereon 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, and procedures.

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 wring/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.

5d. General Contractor shall install all appliances specified and all equipment specified according to the respective manufacturer's instructions. All instruction booklets, warrantees, and other information regarding appliances and equipment shall be handed directly to the Owner in a manila envelope at the time of substantial completion. Contractor shall verify that every appliance and every piece of equipment is in perfect working order and that information about all warranties and guarantees is made known to the Owner.

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 work.

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 sho

7. WEATHER PROOFING:
7a. Weather-strip all exterior doors and windows.

7b. Caulk or otherwise seal around all openings to limit infiltrati including but not limited to: Exterior joints around windows and doo frames, between sole plates and floors, at exterior wall intersection and corners, and between exterior wall panels.

7c. General Contractor shall verify that all work on the exterior the project is watertight. All joints exposed to the elements shall b tested for water tightness prior to substantial completion.

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

These plans are copyrighted and are subject to copyright protection as an "architectural work" under Sec. 102 of the Copyright Act, 17 U.S.O. as amended December 1990 and known as Architectural Works Copyright Protection Act of 1990. The protection includes but is not limited to the overall form as well as the arrangement and composition of spaces and elements of the design. Under such protection, unauthorized use of these plans, work or home represented, can legally result in the cessation of construction or building being seized and /or monetary compensation to CJW Architecture.

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

JOB: 2015.2801

DATE: 6/17/2016

SHEET: T-0.1

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

TABLE 6.504.4.1
ADHESIVE VOC LIMIT[1,2]
Less Water and Less Exempt Compounds In Grams Per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
Indoor carpet adhesives	50
Carpet pad adhesives	50
Outdoor carpet adhesives	150
Wood flooring adhesive	100
Rubber floor adhesives	60
Subfloor adhesives	50
Ceramic tile adhesives	65
VCT and asphalt tile adhesives	50
Drywall and panel adhesives	50
Cove base adhesives	50
Multipurpose construction adhesives	70
Structural glazing adhesives	100
Single-ply roof membrane adhesives	250
Other adhesive not specifically listed	50
SPECIALTY APPLICATIONS	
PVC welding	510
CPVC welding	490
ABS welding	325
Plastic cement welding	250
Adhesive primer for plastic	550
Contact adhesive	80
Special purpose contact adhesive	250
Structural wood member adhesive	140
Top and trim adhesive	250
SUBSTRATE SPECIFIC APPLICATIONS	
Metal to metal	30
Plastic foams	50
Porous material (except wood)	50
Wood	30
Fiberglass	80

1. If an adhesive is used to bond dissimilar substrates together the adhesive with the highest VOC content shall be allowed.
2. For additional information regarding methods to measure the VOC content specified in this table, see South Coast Air Quality Management District Rule 1168, http://www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF.

TABLE 5.504.4.2
SEALANT VOC LIMIT
Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
Architectural	250
Marine deck	760
Nonmembranc roof	300
Roadway	250
Single-ply roof membrane	450
Other	420
SEALANT PRIMERS	
Architectural Nonporous Porous	 250 775
Modified bituminous	500
Marine deck	760
Other	750

Note: For additional information regarding methods to measure the VOC content specified in these tables, see South Coast Air Quality Management District Rule 1168.

TABLE 5.504.4.3
VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2,3]
Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds

COATING CATEGORY	CURRENT LIMIT
Flat coatings	50
Nonflat coatings	100
Nonflat high gloss coatings	150
Specialty Coatings	
Aluminum roof coatings	400
Basement specialty coatings	400
Bituminous roof coatings	50
Bituminous roof primers	350
Bond breakers	350
Concrete curing compounds	350
Concrete/masonry sealers	100
Driveway sealers	50
Dry fog coatings	150
Faux finishing coatings	350
Fire resistive coatings	350
Floor coatings	100
Form-release compounds	250
Graphic arts coatings (sign paints)	500
High-temperature coatings	420
Industrial maintenance coatings	250
Low solids coatings[1]	120
Magnesite cement coatings	450
Mastic texture coatings	100
Metallic pigmented coatings	500
Multicolor coatings	250
Pretreatment wash primers	420
Primers, sealers and undercoaters	100
Reactive penetrating sealers	350
Recycled coatings	250
Roof coatings	50
Rust preventative coatings	250
Shellacs: Clear Opaque	 730 550
Specialty primers, sealers and undercoaters	100
Stains	250
Stone consolidants	450
Swimming pool coatings	340
Traffic marking coatings	100
Tub and tile refinish coatings	420
Waterproofing membranes	250
Wood coatings	275
Wood preservatives	350
Zinc-rich primers	340

1. Grams of VOC per liter of coating, including water and including exempt compounds.
2. The specified limits remain in effect unless revised limits are listed in subsequent columns in the table.
3. Values in this table are derived from those specified by the California Air Resources Board, Architectural Coatings Suggested Control Measure, February 1, 2008. More information is available from the Air Resources Board.

TABLE 5.504.4.5
FORMALDEHYDE LIMITS[1]
Maximum Formaldehyde Emissions in Parts per Million.

PRODUCT	CURRENT LIMIT
Hardwood plywood veneer core	0.05
Hardwood plywood composite core	0.05
Particle board	0.09
Medium density fiberboard	0.11
Thin medium density fiberboard[2]	0.13

1. Values in this table are derived from those specified by the California Air Resources Board, Air Toxics Control Measure for Composite Wood as tested in accordance with ASTM E 1333. For additional information, see *California Code of Regulations*, Title 17, Sections 93120 through 93120.12.
2. Thin medium density fiberboard has a maximum thickness of $^{5}/_{16}$ inches (8 mm).

Green Building Measure	Plan Reference
BUILDING MAINTENANCE AND OPERATION (2013 CGC §5.410)	
Recycling by Occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage, and collection of nonhazardous materials for recycling including paper, corrugated cardboard, glass, plastics, and metals. 2013 CGC §5.410.1	Trash enclosure has separate bins for noted recycling per Recology
Additions. All additions constructed within a 12-month period under single or multiple permits, resulting in an increase of ≥ 30% floor area, shall provide recycling areas on site. 2013 CGC §5.410.1.1	Trash enclosure has separate bins for noted recycling per Recology
Testing and Adjusting. Testing and adjusting of systems shall be required for new system to serve an addition or alteration. 2013 CGC §5.410.4	Specs 01750 & 15800, M-0.1
Operation and Maintenance Manual. Provide the building owner with detailed operating and maintenance instructions and copies of guaranties/warranties for each system prior to final inspection. 2013 CGC §5.410.4.5	Specs Section 006 and 01750
FIREPLACES (2013 CGC §5.503)	
Fireplaces. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace or a sealed woodstove or a pellet stove, and refer to residential requirements in the 2013 California Energy Code, Title 24, Part 6, Subchapter 7, § 150.	N/A
POLLUTANT CONTROL (2013 CGC §5.504)	
Temporary Ventilation. The permanent HVAC system shall only be used during construction if necessary to condition the area or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a MERV of 8, based on ASHRAE 52.2-1999 or an average efficiency of 30% based on ASHRAE 52.1.1992. Replace all filters immediately prior to occupancy. 2013 CGC §5.504.1.3	Specs 15600, & M-0.1
Covering of Duct Openings and Protection of Mechanical Equipment During Construction. At the time of rough installation or during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution openings shall be covered with tape, plastic, sheet metal or other acceptable methods, to reduce the amount of dust or debris which may collect in the system. 2013 CGC §5.504.3.	Specs 15600 & M-0.1
Finish Material Pollutant Control. Finish materials shall comply with 2013 CGC §5.504.4.1 through §5.504.4.4.	Sheet GB-1 & Specs 01000, 1.10 A
Adhesives, sealants and caulks. Adhesives, sealants and caulks used on the project shall meet the requirements of the standards listed in 2013 CGC §5.504.4.1.	Sheet GB-1 & Specs 01000, 1.10 B
Paints and Coatings. Architectural paints and coatings shall comply with 2013 CGC Table 5.504.4.3 unless more stringent local limits apply.	GB-1 & Specs 01000, 1.10 C
Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency.	Specs 01000, 1.10 D
Carpet Systems. All carpet installed in the building interior shall meet the testing and product requirements of one of the standards listed in 2013 CGC §5.504.4.4.	Specs 01000, 1.10 E
Composite Wood Products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in 2013 CGC Table 5.504.4.5	GB-1 & Specs 01000, 1.10 F
Resilient Flooring Systems. 80 percent of the floor area receiving resilient flooring shall comply with at least one of the pollutant control measures listed in 2013 CGC §5.504.4.6.	Specs 01000, 1.10 G

Green Building Measure	Plan Reference
Verification of Compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits. 2013 CGC §5.504.4.6.1	Specs 01000, 1.10 G, a
Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air prior to occupancy that provides at least a MERV of 8. MERV 8 filters shall be installed after any flushed-out or testing and prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual. 2013 CGC §5.504.5.3	Specs 01000, 1.10 H
INDOOR MOISTURE CONTROL (2013 CGC §5.505)	
Buildings shall meet or exceed the provisions of the 2013 California Building Code, Chapter 12 (Ventilation) and Chapter 14 (Exterior Walls) for indoor moisture control. 2013 CGC §5.505	Specs 01000, 1.11
INDOOR AIR QUALITY (2013 CGC §5.506)	
Buildings must meet the minimum requirements of the 2013 California Building Code, Chapter 12 (Ventilation) for mechanically or naturally ventilated spaces. 2013 CGC §5.506.1	Specs 01000, 1.12. A
For Buildings equipped with demand control ventilation, CO2 sensors and vent. Controls shall be specified and installed in accordance with the 2013 California Energy Code. 2013 CGC §5.506.2	Specs 01000, 1.12. B
ENVIRONMENTAL COMFORT (CGC 5.507)	
Acoustical Control. Employ building assemblies and components with STC values determined in accordance with ASTM E90 and ASTM E413 or OITC determined in accordance with ASTM E 1332, using either the prescriptive or performance method in 2013 CGC §5.507.4.1 or §5.507.4.2.	Specs 01000, 1.13
OUTDOOR AIR QUALITY (CGC 5.508)	
Ozone Depletion and Greenhouse Gas Reductions. Installation of HVAC, refrigeration and fire suppression equipment shall comply with 2013 CGC §5.508.1.1 or §5.508.1.2.	Specs 01000, 1.14
Supermarket Refrigerant Leak Reduction. New commercial refrigeration systems shall comply with 2013 CGC §5.508.2 when installed in retail food stores with 8,000 square feet or more of condition area, and that utilize either refrigerated display cases, or walk-in coolers, or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high- GWP) refrigerant with a GWP of 150 or greater. 2013 CGC §5.508.2	N/A

Responsible Designer's Declaration Statement	Contractor Declaration Statement
I hereby certify that this project has been designed to meet the requirements of the 2013 California Green Building Standards Code.	I hereby certify, as the building or installer under permit listed herein, that this project will be constructed to meet the requirements of the California Green Building Standards Code.
Name:	Name:
Address:	Address:
City/State/Zip Code	City/State/Zip Code
Signature:	Signature:
Date:	Date:

2013 CALIFORNIA GREEN BUILDING CODE CHECKLIST FOR NEW, ADDITIONS, OR ALTERATIONS TO EXISTING NON-RESIDENTIAL BUILDINGS

Building additions of 1,000 square feet or more
AND/OR building alterations with a permit valuation of $200,000 or more
must be designed to include Mandatory Green Building Measures.

Building Permit Number: BLD2016-01235

Site Address: LifeMoves Maple Street Shelter, 1580 Maple Street, Redwood City, CA

In the column labeled "Plan Reference"
specify where each Measure can be found on the plans.

Green Building Measure	Plan Reference
SITE DEVELOPMENT (2013 CGC §5.106)	
Storm Water. Newly constructed projects which disturb less than one acre of land shall prevent the pollution of storm water runoff from the construction activities through local ordinance. 2013 CGC §5.106.1.1	ER1 & ER-2
BMP. Include a plan for Best Management Practices (BMP) on the plans. 2013 CGC §5.106.1.2	SW-1
Short Term Bicycle Parking. If an addition or alteration adds 10 or more visitor vehicular parking spaces provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5 percent of new visitor motorized vehicle parking being added, with a minimum of one two-bike capacity rack. 2013 CGC §5.106.4.1.1.	Short term racks provided at the east entry Long term at bldg rear. Sht A-1.4
Designated Parking. If an addition or alteration that adds 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient, and carpool/van pool vehicles as shown in 2013 CGC Table 5.106.5.2. Parking stall marking shall comply with 2013 CGC §5.106.5.2.1	N/A
WATER EFFICIENCY AND CONSERVATION (2013 CGC §5.303)	
Meters. Separate sub-meters or metering devices shall be installed for the uses described in 2013 CGC §503.1.1 and §503.1.2. Buildings in excess of 50,000 square feet: Separate sub-meters shall be installed as follows: 1. For each individual leased, rented, or other tenant space within the building projected to consume more than 100 gal/day, including but not limited to, spaces used for laundry or cleaner, restaurant for food service, medical or dental office, laboratory or beauty salon or barber shop. 2. Where separate sub-meters for individual building tenants are infeasible, for water supplied to the following subsystem: a. Makeup water for cooling towers where flow through is greater than 500 GPM. b. Makeup water for evaporative coolers greater than 6 GPM. Steam and hot-water boilers with energy input more than 500,000 Btu/h.	N/A< 50,000 SF

Green Building Measure	Plan Reference
Excess Consumption. A separate sub-meter or metering device shall be provided for any tenant within a building addition that is projected to consume more than 1,000 gallons/day. 2013 CGC §5.303.1.2	N/A
Water Reduction. Plumbing fixtures in additions or areas of alterations to the building shall meet the maximum flow rate value shown in 2013 CGC Table 5.303.2.3.3	P0.1
Water Conserving Plumbing Fixtures and Fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following reduced flow rates: **Water Closets:** The effective flush volume of all water closets shall not exceed 1.8 gallons per flush. Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush. 2013 CGC §5.303.3.1 **Urinals:** The effective flush volume of urinals shall not exceed 0.5 gallons per flush. 2013 CGC §5.303.3.2 **Single Showerhead:** Showerheads shall have a maximum flow rate of not more than 02.0 gallons per minute at 80 psi. 2013 CGC §5.303.3.3.1 **Multiple Showerheads Serving One Shower:** When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 2.0 gallons per minute at 80 psi, or the show shall be designed to allow only one shower outlet to be in operation at a time. Note: A hand-held shower is considered a showerhead. 2013 CGC §5.303.3.3.2	P0.1
OUTDOOR WATER USE (2013 CGC §5.304)	
Outdoor potable water use. For additions or alterations requiring upgraded water service for landscaped areas between 1,000 square feet and 5,000 square feet, separate sub-meters or metering devices shall be installed for indoor and outdoor potable water use. 2013 CGC §5.304.2.	C4.1 & P0.1
Irrigation Design. In building additions or alterations with cumulative landscaped area s between 1,000 and 2,500 square feet (the level at which the MWELO applies) install irrigation controllers and sensors which include the following criteria and meet manufacturer's recommendations. 2013 CGC §5.304.3	L-2
Irrigation Controllers. Automatic irrigation system controllers must be installed at the time of final inspection. 2013 CGC §5.304.3.1	L-2
WEATHER RESITANCE AND MOISTURE MANAGEMENT (2013 CGC §5.407)	
Weather protection. Provide a weather-resistant exterior wall and foundation envelope as required by 2013 *California Building* §1403.2 and 2013 California Energy Code §150, themanufacturer's installation instructions, or local ordinance, whichever is more stringent. 2013 CGC §5.407.1	Plans Section, Elevations
Moisture Control. Employ moisture control measures by the following methods: **Sprinklers.** Prevent irrigation spray on structures. 2013 CGC §5.407.2.1. **Entries and openings.** Design exterior entries and openings to prevent water intrusion into buildings. 2013 CGC §5.407.2.2.	Irrigation is via bubblers or drip. Doors under cover or with head & bot of door drips
CONSTRUCTION WASTE REDUCTION, DISPOSAL, AND RECYCLING (CGC 5.408)	
Construction Waste Diversion. A minimum of 50% of the non-hazardous construction and demolition waste generated at the site will be diverted to an offsite recycle, diversion, or salvage facility.	Specs 010, Recycling Ordinance and Specs 023, Waste Management

CJ W ARCHITECTURE
130 Portola Road, suite A
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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 ∘

CAL GREEN CHECKLIST & VOC TABLES

∘ REVISIONS ∘

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

∘ JOB: 2015.2801

∘ DATE: 6/17/2016

∘ SHEET: GB-1

Friday, August 19, 2016 1:18 PM
BIM Server: CJW BIM Server 19 – BIM Server 19/2015/Maple Street Shelter_1

STATE OF CALIFORNIA
ENVELOPE COMPONENT APPROACH
CEC-NRCC-ENV-01-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ENV-01-E
Envelope Component Approach	(Page 1 of 4)

Project Name: LifeMoves Maple Street Shelter — Date Prepared: 8/18/2016

A. GENERAL INFORMATION

1	**Project Location:**	1580 Maple Street	6	**Compliance Method:**	☑ Component ☐ Unconditioned (file Affidavit)
2	**CA City and Zip Code:**	Redwood City, 84063	7	**Building Front Orientation (deg or cardinal):**	90 deg
3	**Climate Zone:**	4	8	**Phase of construction**	☐ New Construction ☐ Addition ☑ Alteration
4	**Total Conditioned Floor Area:**	10,173	9	**Building Type(s)**	☑ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel Guest Room
5	☐ Schools (Public School) ☐ Relocatable Public School Bldg. ☑ Conditioned Spaces ☐ Unconditioned Spaces ☐ Skylight Area for Large Enclosed Space > 5000 ft² (If checked include the NRCC-ENV-04-E with submittal)				

B. ENVELOPE DETAILS – Framed

1 Tag/ID	2 Assembly Type	3 Frame Material	4 Frame Depth	5 Frame Spacing	6 Appendix JA4 Reference	7 Cavity R-value	8 Continuous Insulation R-value	9 Proposed U-Factor	10 Required U-Factor From Tables, B, C, D	11 Field Inspection Comments
1	Roof	Wood	2x4 @ 24		4.2.1-A20	30	6.0	0.027	0.082	New Roof

C. ENVELOPE DETAILS – Non-framed

1 Tag/ID	2 Assembly Type	3 Assembly Materials	4 Thickness (inches)	5 Interior or Core Insulation R-value	6 Continuous Insulation R-value	7 Appendix JA4 Reference	8 Proposed U-Factor	9 Required U-Factor from Tables, B, C, D	10 Field Inspection Comments

D. ENVELOPE DETAILS – Mass

1 Tag/ID	2 Mass Type	3 Density (lb/ft³)	4 Mass Thickness (inches)	5 Furring Strip Thickness (inches)	6 Interior Insulation R-value	7 Exterior Insulation R-value	8 Appendix JA4 Reference	9 Proposed Insulation U-Factor	10 Required U-Factor from Tables, B, C, D	11 Field Inspection Comments
1	Wall	14.4			12.5	0.0	4.3.6-D5	0.224	0.227	6" Concrete Wall

STATE OF CALIFORNIA
ENVELOPE COMPONENT APPROACH
CEC-NRCC-ENV-01-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ENV-01-E
Envelope Component Approach	(Page 2 of 4)

Project Name: LifeMoves Maple Street Shelter — Date Prepared: 8/18/2016

E. ROOFING PRODUCTS (COOL ROOF)

1 Mass Roof 25 lb ft2 or greater	2 Roof Pitch	3 CRRC Product ID Number	4 Product Type	5 Proposed Aged Solar Reflectance	6 Proposed Thermal Emittance	7 Proposed SRI² (Optional)	8 Minimum Required Aged Solar Reflectance	9 Minimum Required Thermal Emittance	10 Minimum Required SRI (optional)	11 Comments
☐	4 / 12			☐[1] 0.20	0.85		0.20	0.75		New Roof
☐				☐[1]						
☐				☐[1]						

☐ An aged solar reflectance less than 0.63 is allowed provided the maximum roof / ceiling U-factor in TABLE 140.3 is not exceeded

☐ High-rise residential buildings and Hotels and Motels with low-sloped roofs in Climate Zones 1 through 8, 12 and 16 are exempted from aged Solar Reflectance and emittance requirements.

☐ High-rise residential buildings and Hotels and Motels with steep-sloped roofs in Climate Zones 1 and 16 are exempt from aged Solar Reflectance and emittance requirements.

☐ The roof area covered by building integrated photovoltaic panels and building integrated solar thermal panels are exempt from aged Solar Reflectance and emittance requirements

To apply **Liquid Field Applied Coatings,** the coating must be applied across the entire roof surface and meet the dry mil thickness or coverage recommended by the coatings manufacturer and meet minimum performance requirements listed in §110.8(i)4. Select the applicable coating:

☐ Aluminum-Pigmented Asphalt Roof Coating ☐ Cement-Based Roof Coating ☐ Other _____

NOTES:
1. *Check the box if the aged Solar reflectance was not available in the Cool Roof Rating Council's Rated Product Directory, Then use the* equation in Section 110.8(i)2 where the *Initial Reflectance value from the same directory and use the equation (0.2+B($\rho_{Initial}$ – 0.2) to obtain a calculated aged value. Where* ***ρ*** *is the Initial Solar Reflectance and* ***B*** *is either set to 0.65 for Field-Applied Coatings or it is set to 0.70 for all other roofing products other than Field-Applied Coating.*
2. *Calculate the SRI Value by using the SRI-Worksheet at (TBD) and enter the resulting value in the SRI Column above and attach a copy for the SRI-Worksheet NRCC-ENV-03-E to the to this form.*

F. Air Barrier

1 NameName	2 Air Barrier Material Type	3 Air Barrier Assembly Type	4 Whole Building Air Leakage Testing	5 Comments

STATE OF CALIFORNIA
FENESTRATION WORKSHEET
CEC-NRCC-ENV-02-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ENV-02-E
Fenestration Worksheet	(Page 1 of 3)

Project Name: LifeMoves Maple Street Shelter — Date Prepared: 8/18/2016

A. WINDOWS DETAILS Worksheet *§140.3(a)5B and C*

NOTE: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 116-A and Table 116B. Site-built fenestration less than 1,000 ft², or more than or equal to1,000 ft² see Reference Nonresidential Appendix NA6.

1 Tag/ID	2 Window Type (e.g., Window-1)	3 Surface Area	4 Fenestration U-Factor Proposed	5 Fenestration U-Factor Allowed	6 Fenestration SHGC Proposed	7 Fenestration SHGC Allowed	8 Fenestration VT Proposed	9 Fenestration VT Allowed	10 Overhang Dimensions H	11 Overhang Dimensions V	12 Overhang Dimensions H/V	13 Calculated (R)SHGC Proposed	14 Calculated Max (R)SHGC Allowed
1	Window	168	0.360	0.360	0.250	0.250	0.500	0.42					
2	Window	6	0.360	0.360	0.250	0.250	0.500	0.42					
3	Window	600	0.360	0.360	0.250	0.250	0.500	0.42					
4	Skylight	8	0.460	0.460	0.250	0.250	0.500	0.49					

B. WEST WINDOW AREA CALCULATION See §140.3(a)5A in the Energy Standards

A. Gross **West** Exterior Wall Area	2,640	**ft² × 0.40 =**	1,056 ft²	40% of **Gross West Facing** Exterior Wall Area; or
B. **West** Display Linear Perimeter	0	**FT × 6 ft =**	0 ft²	**West** Display Perimeter Area
C. Enter Larger of A or B			1,056 ft²	Maximum Standard **West** Area
D. Enter Proposed **West** Window Area			678 ft²	Proposed **West** Window Area

*Note: If the PROPOSED **WEST** WINDOW AREA is greater than the MAXIMUM STANDARD **WEST** AREA then the envelope component approach may not be used.*

C. WINDOW AREA CALCULATION for all other orientations other than West - See §140.3(a)5A in the Energy Standards

E. Gross Exterior Wall Area	5,111	**ft² × 0.40 =**	2,044 ft²	40% of Gross Exterior Wall Area or
F. Linear Display Perimeter	0	**FT × 6 ft =**	0 ft²	Display Perimeter Area
G. Enter The Larger of E or F			2,044 ft²	Maximum Standard Area
H. Enter Proposed Window Area			774 ft²	Proposed Window Area

Note: If the PROPOSED WINDOW AREA is greater than the MAXIMUM STANDARD AREA then the envelope component approach may not be used.

STATE OF CALIFORNIA
ENVELOPE COMPONENT APPROACH
CEC-NRCC-ENV-01-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ENV-01-E
Envelope Component Approach	(Page 3 of 4)

Project Name: LifeMoves Maple Street Shelter — Date Prepared: 8/18/2016

G. FENESTRATION PROPOSED AREAS AND EFFICIENCIES

1 Tag/ID	2 Fenestration Type	3 Surface Area	4 Orientation N, S, W, E or Roof	5 # of Panes	6 Max U-Factor	7 Overhang	8 Max (R)SHGC	9 Min VT	10 Label	11 Conditions Status	12 Comments
1	PPG SOLARBAN 60 (3) Bronz	168	N	1	0.36	No	0.25	0.42		New	
2	PPG SOLARBAN 60 (3) Bronz	6	S	1	0.36	No	0.25	0.42		New	
3	PPG SOLARBAN 60 (3) Bronz	600	E	1	0.36	No	0.25	0.42		New	
4	Double Non Metal Clear	8	Roof	2	0.46	No	0.25	0.49		New	
5	PPG SOLARBAN 60 (3) Bronz	678	W	1	0.36	No	0.25	0.42		New	

H. ENVELOPE MANDATORY MEASURES

Indicate location on building plans of Mandatory Envelope Measures Note Block: ENV-MM

INSTRUCTIONS TO APPLICANT ENVELOPE COMPLIANCE & WORKSHEETS (check box if worksheet are included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Compliance Manual.

☑	NRCC-ENV-01-E	Certificate of Compliance. Required on plans for all submittals.
☐	NRCC-ENV-04-E	Use when minimum skylight requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans.

STATE OF CALIFORNIA
ENVELOPE COMPONENT APPROACH
CEC-NRCC-ENV-01-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ENV-01-E
Envelope Component Approach	(Page 4 of 4)

Project Name: LifeMoves Maple Street Shelter — Date Prepared: 8/18/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Company: Tantech Engineers	Signature Date: 8/18/2016
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: ,	Phone:

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.
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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 - Vy Truong	Responsible Designer Signature:
Company : Tantech Engineers	Date Signed:
Address: 1431 Cedar Street	License: M32860
City/State/Zip: San Carlos, CA 94070	Phone: 415-269-4283

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

These plans are copyrighted and are subject to copyright protection as an "architectural work" under Sec. 102 of the Copyright Act, 17 U.S.O. as amended December 1990 and known as Architectural Works Copyright Protection Act of 1990. The protection includes but is not limited to the overall form as well as the arrangement and composition of spaces and elements of the design. Under such protection, unauthorized use of these plans, work or home represented, can legally result in the cessation of construction or building being seized and /or monetary compensation to CJW Architecture.

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 ∘

T-24 Envelope

∘ REVISIONS ∘

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

∘ JOB: 2015.2801

∘ DATE: 6/17/2016

∘ SHEET: ENV-1

1 2015-2801 081916 ENV-1-Rev2 — 1' = 1'-0"

Friday, August 19, 2016 1:18 PM
RIM Server: CJW BIM Server 19 – BIM Server 19/2015/Maple Street Shelter_1

STATE OF CALIFORNIA

FENESTRATION WORKSHEET

CEC-NRCC-ENV-02-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ENV-02-E
Fenestration Worksheet	(Page 1 of 3)
Project Name: LifeMoves Maple Street Shelter	Date Prepared: 8/18/2016

A. WINDOWS DETAILS Worksheet *§140.3(a)5B and C*

NOTE: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 116-A and Table 116B. Site-built fenestration less than 1,000 ft², or more than or equal to1,000 ft² see Reference Nonresidential Appendix NA6.

1	2	3	4	5	6	7	8	9	10	11	12	13	14
			Fenestration						Overhang				
			U-Factor		SHGC		VT		Dimensions			Calculated	
Tag/ID	Window Type (e.g., Window-1)	Surface Area	Proposed	Allowed	Proposed	Allowed	Proposed	Allowed	H	V	H/V	(R)SHGC Proposed	Max (R)SHGC Allowed
5	Window	678	0.360	0.360	0.250	0.250	0.500	0.42					

B. WEST WINDOW AREA CALCULATION See §140.3(a)5A in the Energy Standards

A. **Gross West** Exterior Wall Area	2,640	**ft² x 0.40 =**	1,056 ft²	40% of **Gross West Facing** Exterior Wall Area; or
B. **West** Display Linear Perimeter	0	**FT x 6 ft =**	0 ft²	**West** Display Perimeter Area
C. Enter Larger of A or B			1,056 ft²	Maximum Standard **West** Area
D. Enter Proposed **West** Window Area			678 ft²	Proposed **West** Window Area

*Note: If the PROPOSED **WEST** WINDOW AREA is greater than the MAXIMUM STANDARD **WEST** AREA then the envelope component approach may not be used.*

C. WINDOW AREA CALCULATION for all other orientations other than West - See §140.3(a)5A in the Energy Standards

E. Gross Exterior Wall Area	5,111	**ft² x 0.40 =**	2,044 ft²	40% of Gross Exterior Wall Area or
F. Linear Display Perimeter	0	**FT x 6 ft =**	0 ft²	Display Perimeter Area
G. Enter The Larger of E or F			2,044 ft²	Maximum Standard Area
H. Enter Proposed Window Area			774 ft²	Proposed Window Area

Note: If the PROPOSED WINDOW AREA is greater than the MAXIMUM STANDARD AREA then the envelope component approach may not be used.

STATE OF CALIFORNIA

FENESTRATION WORKSHEET

CEC-NRCC-ENV-02-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ENV-02-E
Fenestration Worksheet	(Page 2 of 3)
Project Name: LifeMoves Maple Street Shelter	Date Prepared: 8/18/2016

D. SKYLIGHT AREA CALCULATION See §143(a)6A in the Energy Standards

	ACTUAL GROSS ROOF AREA		STANDARD ALLOWED SKYLIGHT AREA
A IF Atrium/Skylight Height is ≤ 55 ft; **or**	10,173	ft² × 0.05 =	509 ft²
B. IF Atrium/Skylight Height is > 55 ft		ft² × 0.10 =	ft²
C. Proposed Skylight Area (from plans)		8 ft²	
D. Skylight SSR %[1,2] = Proposed Skylight Area Divided by Actual Gross Roof Area =		0.1 %	

1. If the SKYLIGHT SSR % is less than or equal to 5% then choose the appropriate column in Table 140.3-B and C and row in Table 140.3-D.
2. If the SKYLIGHT SSR % is greater than 5% then the Envelope Component Approach may not be used.

E. RELOCATABLE PUBLIC SCHOOL BUILDINGS - See Section140.3(a)8 in the Energy Standards

Option 1	
☐ For Specific Climate Zone, use Table 140.3-B - Prescriptive Envelope Criteria.	☐ Specific Climate Zone Metal Identification Label – Place two labels on each relocatable school building and indicate on the building plans. **Indicate location from the building plans:**
Option 2	
☐ For Any (All) Climate Zone, use Table 140.3-D - Prescriptive Envelope Criteria.	☐ Any (All) Climate Zone Metal Identification Label - Place two labels on each relocatable school building and indicate on the building plans. **Indicate location from the building plans:**

STATE OF CALIFORNIA

FENESTRATION WORKSHEET

CEC-NRCC-ENV-02-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ENV-02-E
Fenestration Worksheet	(Page 3 of 3)
Project Name: LifeMoves Maple Street Shelter	Date Prepared: 8/18/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Company: Tantech Engineers	Signature Date: 8/18/2016
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: ,	Phone:

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Responsible Designer Name:	Responsible Designer Signature:
Company : Tantech Engineers	Date Signed:
Address: 1431 Cedar Street	License: M32860
City/State/Zip: San Carlos, CA 94070	Phone: 415-269-4283

STATE OF CALIFORNIA

AREA WEIGHTED AVERAGE CALCULATION WORKSHEET

CEC-NRCC-ENV-06-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ENV-06-E
Area Weighted Average Calculation Worksheet	(Page 1 of 2)
Project Name: LifeMoves Maple Street Shelter	Date: 8/18/2016

This worksheet is used to calculate the area weighted-average values for a building envelope features such as, walls, roofs, floors, mass, and fenestration/glazing U-factors, Relative Solar Heat Gain Coefficient (RSHGC) or Visible Transmittance (VT) for the prescriptive compliance approach. R-values can never be area weighted averaged. Only U-factors, SHGC, RSHGC or VT can be used. When a window has an overhang, calculate the RSHGC first (see Equation 140.3-A), then determine the weighted average if need be.

Weighted averaging is used when there is more than one level of insulation or more than one type of window and one or more type of fenestration which would not meet prescriptive compliance requirements. Each fenestration type (e.g., vertical windows, skylights, dynamic glazing, and window films) are treated independently or cannot be combined. Weight averaging is not allowed for chromogenic glazing.

A. Area Weighted Average Calculation

Item/ Tag No.	Type 1 Value[1]		Type 1 Area[2]		Type 2 Value[1]		Type 2 Area[2]		Type 3 Value[1]		Type 3 Area[2]		Total Area		Area Weighted Average Value[3]
	[(_____)	x	(_____)	+	(_____)	x	(_____)	+	(_____)	x	(_____)]	÷		=	
	[(_____)	x	(_____)	+	(_____)	x	(_____)	+	(_____)	x	(_____)]	÷		=	
	[(_____)	x	(_____)	+	(_____)	x	(_____)	+	(_____)	x	(_____)]	÷		=	
	[(_____)	x	(_____)	+	(_____)	x	(_____)	+	(_____)	x	(_____)]	÷		=	
	[(_____)	x	(_____)	+	(_____)	x	(_____)	+	(_____)	x	(_____)]	÷		=	
	[(_____)	x	(_____)	+	(_____)	x	(_____)	+	(_____)	x	(_____)]	÷		=	
	[(_____)	x	(_____)	+	(_____)	x	(_____)	+	(_____)	x	(_____)]	÷		=	
	[(_____)	x	(_____)	+	(_____)	x	(_____)	+	(_____)	x	(_____)]	÷		=	
	[(_____)	x	(_____)	+	(_____)	x	(_____)	+	(_____)	x	(_____)]	÷		=	
	[(_____)	x	(_____)	+	(_____)	x	(_____)	+	(_____)	x	(_____)]	÷		=	
	[(_____)	x	(_____)	+	(_____)	x	(_____)	+	(_____)	x	(_____)]	÷		=	
	[(_____)	x	(_____)	+	(_____)	x	(_____)	+	(_____)	x	(_____)]	÷		=	

1. *"Value" can be replaced throughout the formula by "U-factor", "Relative Solar Heat Gain Coefficient, Visible Transmittance" or any other value that varies throughout Nonresidential and is appropriate to weight average. Mixture of different units not allowed.*
2. *"Area" can be replaced throughout the formula by "Length" or any other unit of measure used for the value being averaged. Mixture of different units not allowed.*
3. *Enter the above Weighted Average Value on the NRCC-ENV-01-E and NRCC-ENV-02-E form and attach this sheet.*

Area Weighted Averages	Tag	Allowed	Tag	Proposed	Complies
Vertical Fenestration U-Factor	VFUa	0.360	VFUp	0.360	YES
Vertical Fenestration SHGC	VFSa	0.250	VFSp	0.250	YES
Vertical Fenestration VT	VFVa	0.420	VFVp	0.500	YES
Skylight U-Factor	SUa	0.460	SUp	0.460	YES
Skylight SHGC	SSa	0.250	SSp	0.250	YES
Skylight VT	SVa	0.490	SVp	0.500	YES
Wall U-Factor	WUa	0.227	WUp	0.224	YES
Roof U-Factor	RUa	0.082	RUp	0.027	YES
Door U-Factor	DUa	n/a	DUp	n/a	
Floor U-Factor	FUa	n/a	FUp	n/a	

STATE OF CALIFORNIA

AREA WEIGHTED AVERAGE CALCULATION WORKSHEET

CEC-NRCC-ENV-06-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ENV-06-E
Area Weighted Average Calculation Worksheet	(Page 2 of 2)
Project Name: LifeMoves Maple Street Shelter	Date: 8/18/2016

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City/State/Zip: 1431 Cedar Street, San Carlos, CA 94070	Phone: 415-269-4283

ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL — ENV-MM

Project Name	Date
LifeMoves Maple Street Shelter	*8/18/2016*

DESCRIPTION

Building Envelope Measures:

§110.8(a):	Installed insulating material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20 Chapter 4, Article 3.
§110.8(c):	All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of Title 24, Part 2.
§110.8(f):	The opaque portions of framed demising walls in nonresidential buildings shall have insulation with an installed R-value of no less than R-13 between framing members.
§110.7(a):	All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.
§110.6(a):	Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cfm/ft.² of window area, 0.3 cfm/ft.² of door area for residential doors, 0.3 cfm/ft.² of door area for nonresidential single doors (swinging and sliding), and 1.0 cfm/ft.² for nonresidential double doors (swinging).
§110.6(a):	Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor.
§110.6(a) :	Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestration, or the applicable default SHGC.
§110.6(b):	Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).

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

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

PROJECT

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

SHEET TITLE

T-24 Envelope

REVISIONS

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

JOB: 2015.2801

DATE: 6/17/2016

SHEET: ENV-2

Friday, August 19, 2016 1:18 PM

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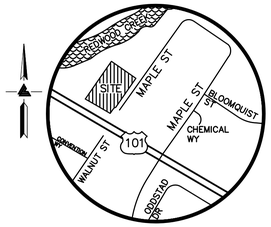
1 2015-2801 081916 ENV-2-Rev2 1' = 1'-0"

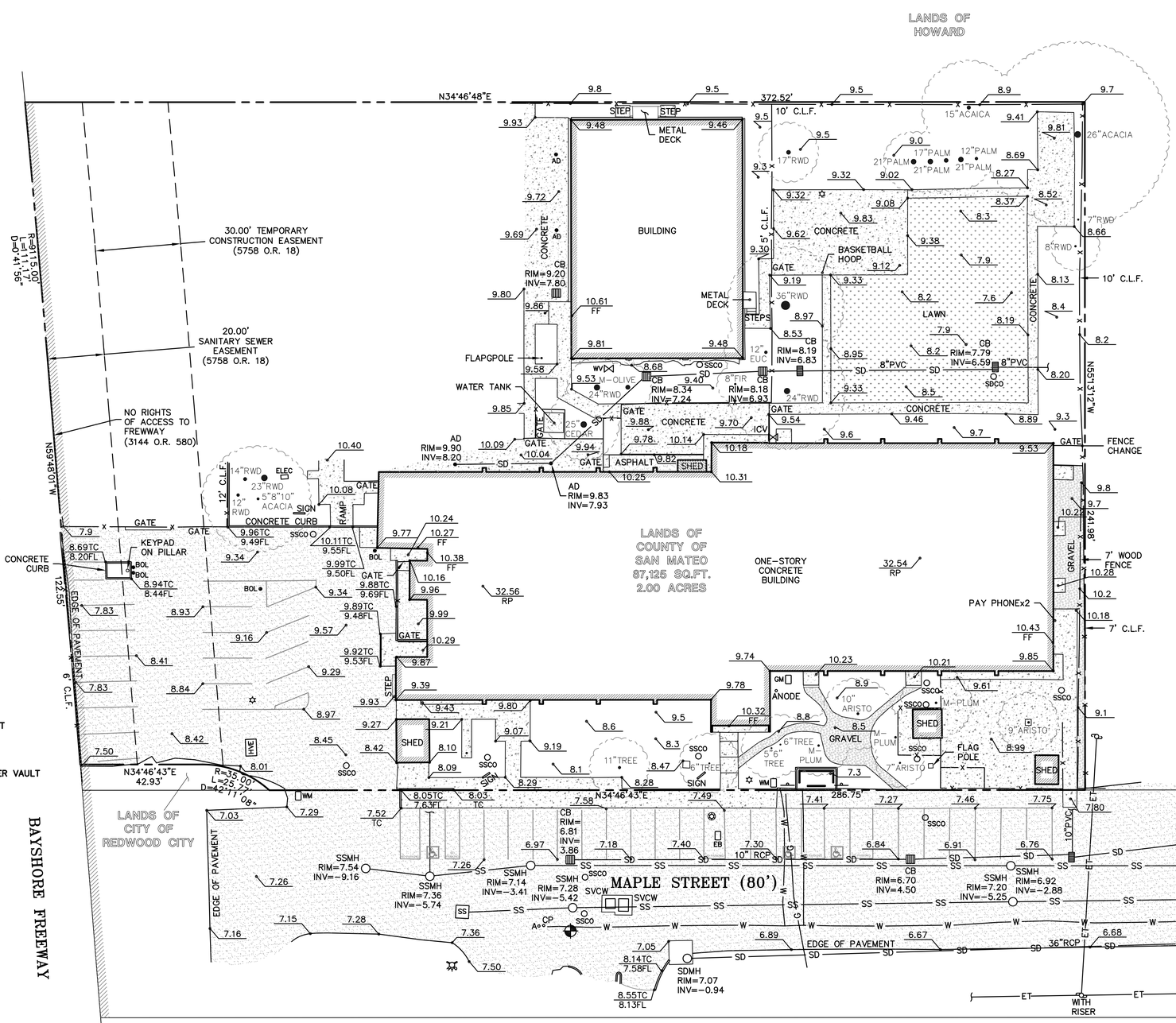


VICINITY MAP

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
⋈ 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
▭ WM	WATER METER
⋈ WV	WATER VALVE
⌖	BENCHMARK
XXX.XX	SPOTGRADE
	ASPHALT
	CONCRETE
	GRAVEL
	LAWN
DRIPLINE	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)

0 10 20 40

SCALE: 1" = 20'

LICENSED LAND SURVEYOR
GREGORY F. 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
3017 DOUGLAS BLVD., # 300
ROSEVILLE, CA 95661
(P) (916)966–1338
(F) (916)797–7363
WWW.LEABRAZE.COM

1580 MAPLE STREET
REDWOOD CITY, CALIFORNIA

APN: 052–532–020

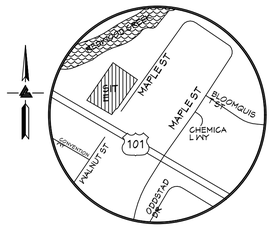
SAN MATEO COUNTY

TOPOGRAPHIC SURVEY

REVISIONS	BY
–	–
–	–
–	–
–	–

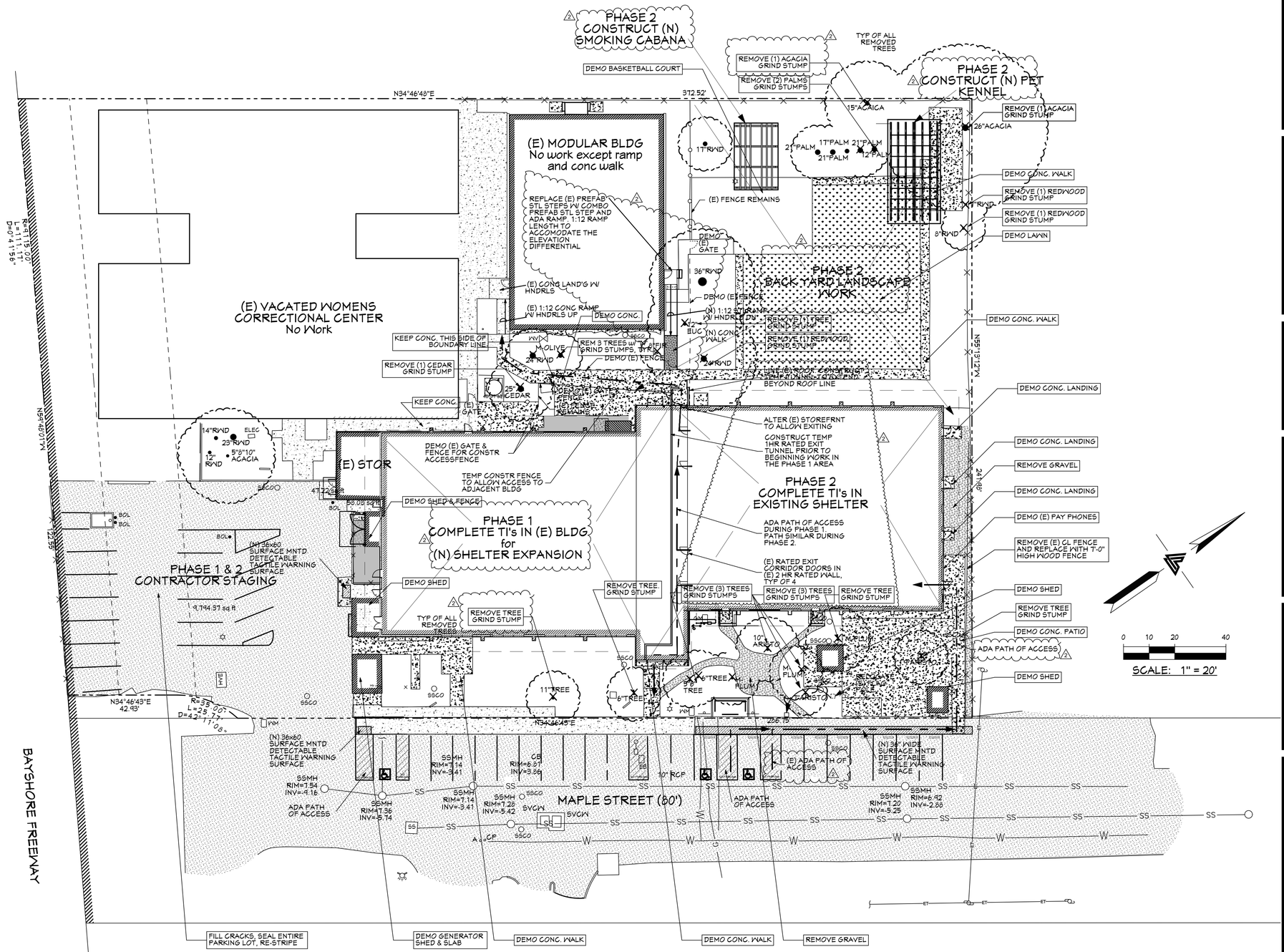
JOB NO:	2151288
DATE:	01–06–16
SCALE:	1" = 20'
FIELD BY:	DR
DRAWN BY:	JN
SHEET NO:	SU1

01 OF 01 SHEETS



VICINITY MAP

NO SCALE



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

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

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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 ◦

SITE, PHASING & DEMOLITION PLAN

◦ REVISIONS ◦

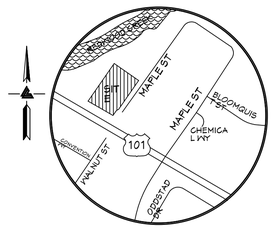
No.	Date	Notes
1	6-17-2016	Building Submittal
2	8-15-2016	PC#1/ Add #3

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

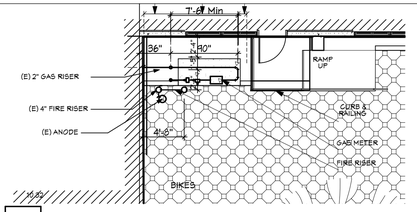
◦ SHEET: A-1.2

Friday, August 19, 2016 1:19 PM
BIM Server: CJW BIM Server 19 – BIM Server 19/2015/Maple Street Shelter_1



VICINITY MAP

NO SCALE

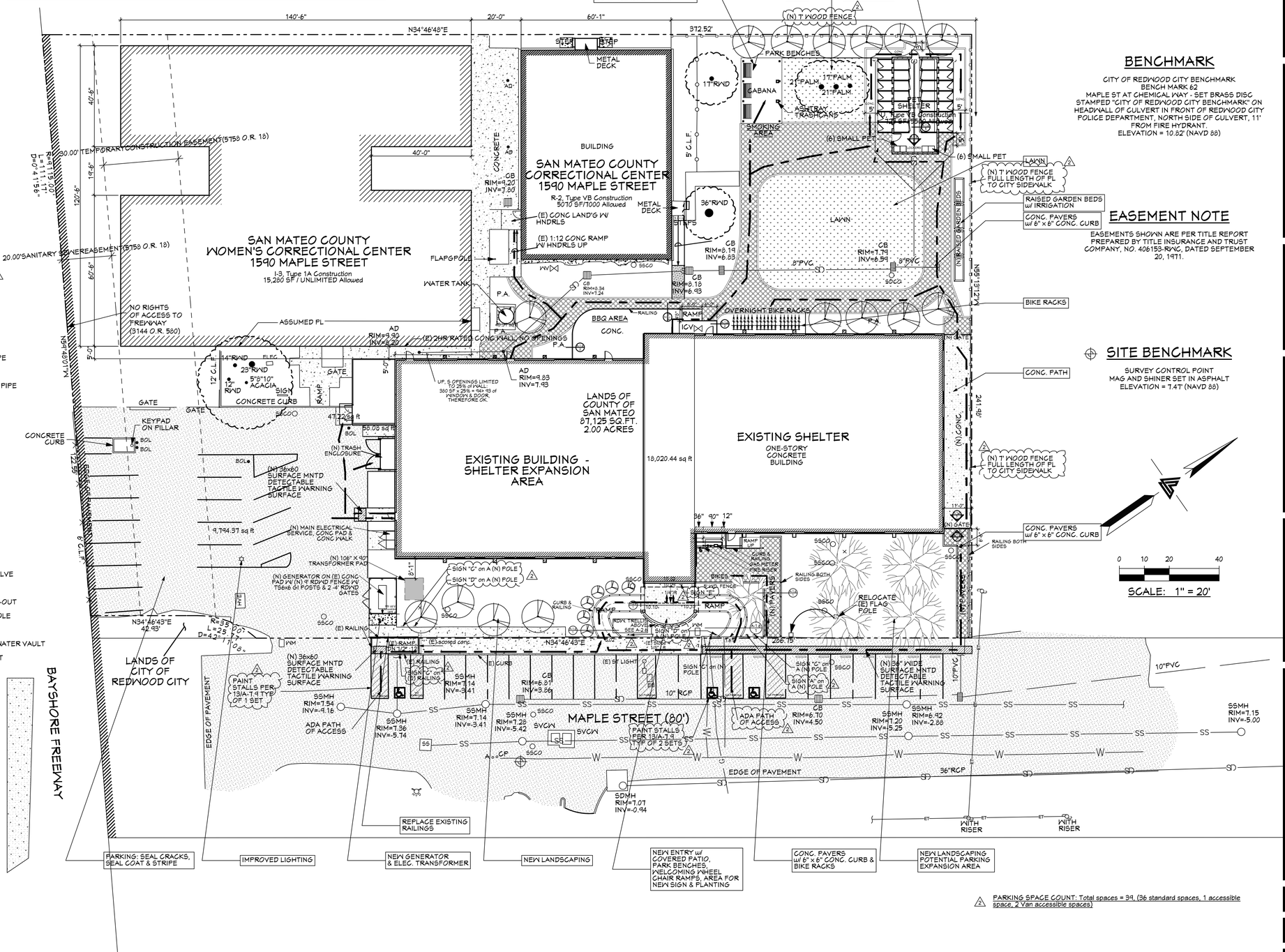


2 (E) GAS METER DETAIL

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)
2	ADA PATH OF ACCESS
ARISTO	ARISTOCRAT
C.L.F.	CHAIN LINK FENCE
EUC	EUCALYPTUS
FF	FINISH FLOOR
FL	FLOW LINE
INV	INVERT
M-	POLYVINYL CHLORIDE PIPE MULTIPLE TRUNKS
PVC	
RWD	REINFORCED CONCRETE PIPE REDWOOD
RCP	
RP	ROOF PEAK
TC	TOP OF CURB
TOS	TOP OF SLAB
∘ A	ANODE
• AD	AREA DRAIN
• BOL	BOLLARD
CB	CATCH BASIN
EB	ELECTRICAL VAULT
ELEC	ELECTRICAL BOX
	FIRE HYDRANT
	GAS METER
GM	
IGV	JOINT POLE
	IRRIGATION CONTROL VALVE
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
WM	WATER METER
WV	WATER VALVE
	BENCHMARK
XXX.XX	SPOTGRADE
	ASPHALT
	CONCRETE
	GRAVEL
	LAWN
	PAVERS
DRIPLINE	TREE: TYPE AND SIZE AS NOTED



1 Site Plan Proposed

1" = 20'

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)

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

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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

∘ JOB: 2015.2801

∘ DATE: 6/17/2016

∘ SHEET: A-1.3

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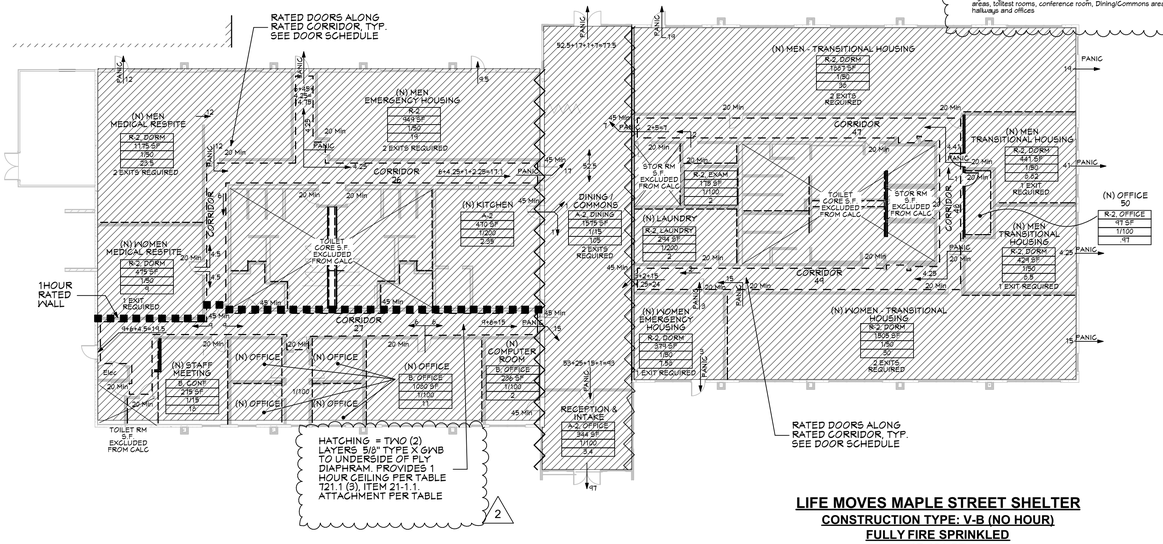


NOTE: Project scope includes the following item which are deferred approval items that shall be submitted tothe Fire Department by the appropriate licensed sub contractors:
1. Provide and install an NFPA 13 compliant fire sprinkler system that extends and upgrades the existing fire sprinkler system in the Dining/Commons area and the right side of the building.
2. Provide and install an NFPA 13 compliant fire sprinkler system that extends (E) system into the left side of the building where no (E) fire sprinkler system currently exists.
3. Provide a fully functional fire alarm system including ADA comliant signalling devivees in rooms including but not limited to the sleeping areas, tillitest rooms, conference room, Dining/Commons area, hallways and offices

LIFE MOVES MAPLE STREET SHELTER
CONSTRUCTION TYPE: V-B (NO HOUR)
FULLY FIRE SPRINKLED
17,481 SF

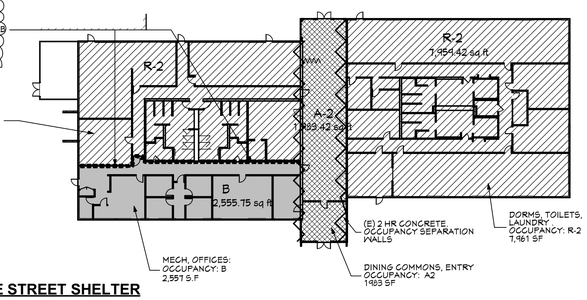
Occupancy — R2, DORM — Use
672 s.f. — Room s.f.
1/35 — Occupant load factor
19 — Occupant load
Two exits req'd — If two exits are req'd

150 — Occupant load
Panic 31.6" R, 12" P — Required exit width, Provided exit width
Panic hardware req'd and provided
150' < 225' o.k. — Path of travel & length (longest identified)
Sprinkled bldg, allowable = 225'

WALL RATINGS LEGEND
1 HOUR OCCUPANCY SEPARATION MTL STUDS @ 16", 5/8" TYFE X GWB OR CEMENT BRD @ TOILET ROOMS; MINERAL FIBER INSUL - UL U404 Or UL U433
1 HOUR CORRIDOR TUNNEL OR 1 HR DORM SEFRTN WALL, MTL STUDS @ 16", 5/8" TYFE X GWB OR CEMENT BRD @ TOILET ROOMS; MINERAL FIBER INSUL - UL U404 Or UL U433
(E) 8" CONC WALLS QUALIFIES FOR 3 HOUR OCCUPANCY SEPARATION WALLS PER CBC TABLE T21.1 (2), ITEM #4-1.1

4 Occupant Loads, Req'd Exiting, Exit Discharge

NOTE: 1 HOUR OCCUPANCY SEPARATION, 1 HR TUNNEL OR RATED DORM WALL MTL STUDS @ 16", 5/8" TYPE X GWB OR CEMENT BRD @ TOILET ROOMS; MINERAL FIBER INSUL UL U404 Or UL U433



LIFE MOVES MAPLE STREET SHELTER
CONSTRUCTION TYPE: V-B (NO HOUR)
FULLY FIRE SPRINKLED
17,481 SF

RATED CEILING NOTE: PER CBC TABLE T21.1 (3) ITEM 21-1.1: 2 LAYERS 5/8" TYPE X GWB ON (E) WD JSTS @ 16". ATTACHMENT AS NOTED IN TABLE

1 Building Occupancies and Separations

PLUMBING FIXTURE / OCCUPANCY TABLE

PLUMBING OCCUPANCY TYPE	AREA (SF)	PLUMBING OCCUPANT LOAD FACTOR (CPC TABLE A)	PLUMBING OCCUPANT LOAD TOTAL	MALE	FEMALE
GROUP A-2, DINING / COMMONS	1575	30	53	26	26
GROUP B, OFFICE	1935	200	10	5	5
GROUP R-2, DORMS	8232	200	41	21	21
TOTAL			**103**	**52**	**52**

Accessory areas excluded in SF per Table A

2 Plumbing Fixture / Occupancy Table

PLUMBING FIXTURE COUNTS

FXTURE TYPE	FIXTURES PER PERSON REQUIRED MALE	FIXTURES PER PERSON REQUIRED FEMALE	FIXTURES REQUIRED MALE	FIXTURES REQUIRED FEMALE	FIXTURES REQUIRED TOTAL	FIXTURES PROVIDED MALE	FIXTURES PROVIDED FEMALE	FIXTURES PROVIDED UNISEX	FIXTURES PROVIDED TOTAL	
TOILETS	1:10; 1: ea add'l 25	1:8; 1: ea add'l 20	5	6	12	8	8	2	18	OK
URINALS	1:25	0	2	0	2	8	0	0	8	OK
LAVATORIES	1:12	1:12	4	4	9	12	18	2	32	OK
SHOWERS	1:8 (TOTAL M/F)	1:8 (TOTAL M/F)			13	9	8	0	17	OK
DRINKING FOUNTAIN	1:150 (TOTAL M/F)	1:150 (TOTAL M/F)			1				4	OK
SERVICE/LAUNDRY SINK	1:100 (TOTAL M/F)	1:100 (TOTAL M/F)			1				2	OK

3 Plumbing Fixture Counts

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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 ◦

EXITING, OCCUPANCIES, SEPARATIONS, PLUMBING FIXTURE CALCS

◦ 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-1.4

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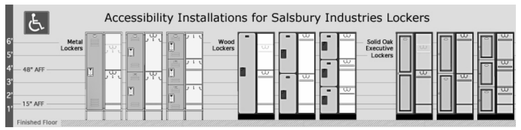


Figure 1. Forward Reach

High and Low Forward Reach Limits of **48" AFF** and **15" AFF** (Above Finished Floor)



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.

Figure 2. Side Reach

High and Low Side Reach Limits of **48" AFF** and **15" AFF** (Above 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.

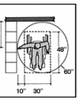
The 48" maximum high side reach for a shelf must be located less than 48" above the finished floor, and the 15" lower limit position for the shelf surface must be located at 15" above the finished floor.

Turning Radius Recommendation

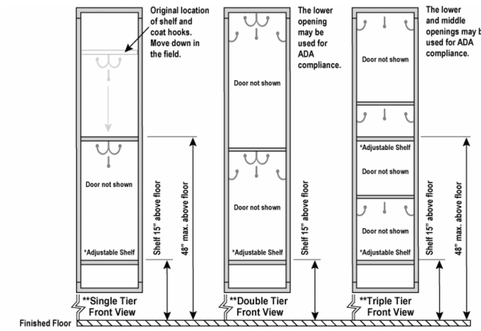
Lockers should be placed in an area that allows full door swing and wheelchair turning ability. Lockers shall be placed in a location at least

Figure 3. Turning Radius

24" away from other obstacle; minumum **30" x 48"** floor space with a **10"** minimum for door swing; **60"** diameter turning circle.



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)

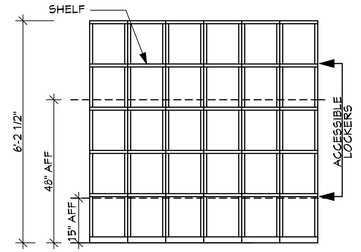
LOCKS
• No higher than 48"
• Limit pinching/twisting
• Suggested lock types:

-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.

4 Entry Ramps

1/2" = 1'-0"

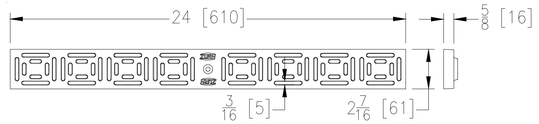
ZURN

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

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

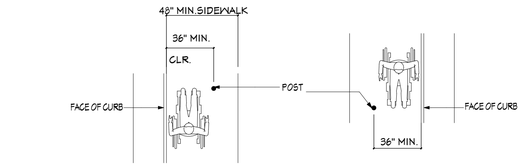
Back to Index

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

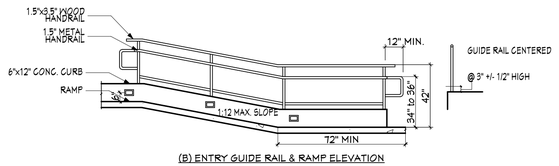


Opening in grate is max. 3/16".
Opening shall not allow passage of a sphere more than 1/2" diameter.
CBC 11B-302.3 & Figure 11B-302.3

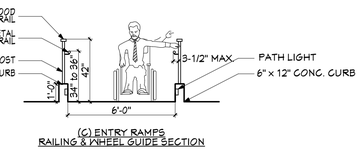
5 Trench Drain Grate



(A) SIDEWALK OBSTRUCTIONS



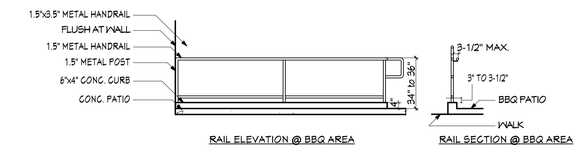
(B) ENTRY GUIDE RAIL & RAMP ELEVATION



(C) ENTRY RAMPS
RAILING & WHEEL GUIDE SECTION

1 Entry Ramps

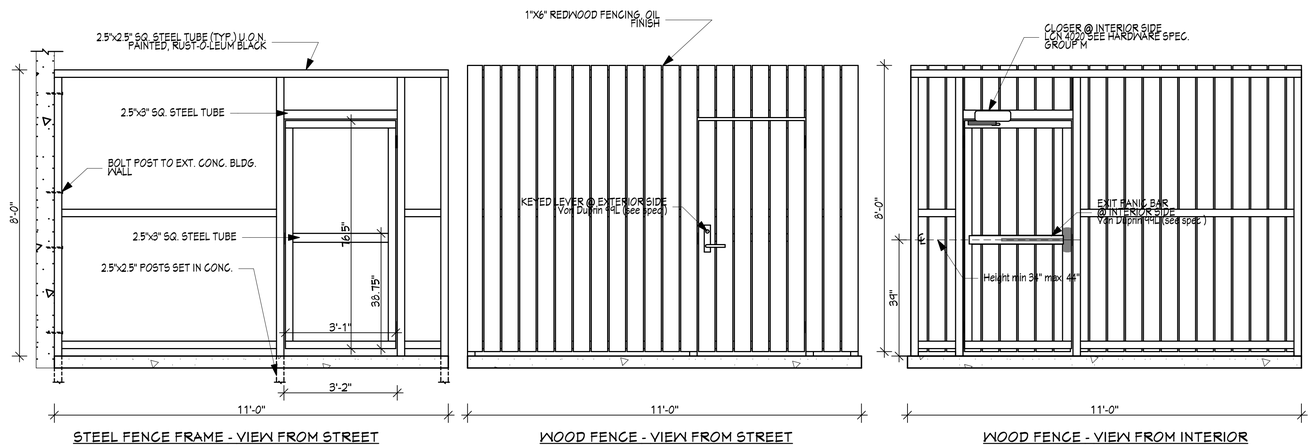
1/4" = 1'-0"



RAIL ELEVATION @ BBQ AREA
RAIL SECTION @ BBQ AREA

2 BBQ Area Railings

1/4" = 1'-0"



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

3 Gate & Fence - West

1/2" = 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 ◦

SITE DETAILS

◦ 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-1.5

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Friday, August 19, 2016
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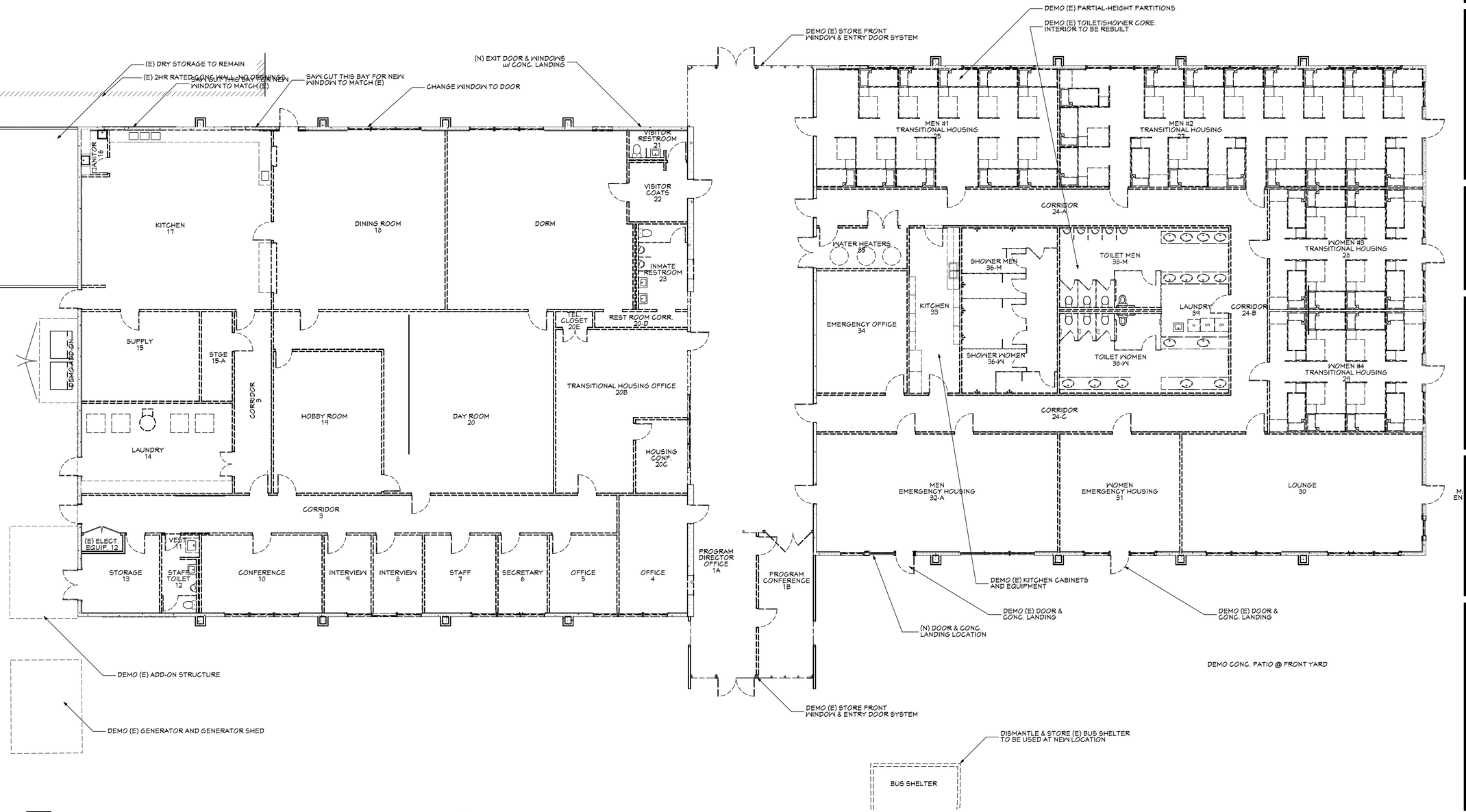
DEMOLITION NOTES

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
- (E) INTERIOR WALL TO BE REMOVED
- (N) EXTERIOR WALL
- (N) INTERIOR WALL



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

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1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

DEMOLITION PLAN

◦ REVISIONS ◦

No.	Date	Notes
1	6-17-2016	Building Submittal

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: A-2.0

WALL LEGEND

- (E) EXTERIOR WALL TO REMAIN
- (E) INTERIOR WALL TO REMAIN
- (N) EXTERIOR WALL
- (N) INTERIOR WALL

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

5 COLUMN SPACING @ 20'-0" O.C. = 100' - 0"

4 COLUMN SPACING @ 20'-0" O.C. = 80' - 0"

(E) 2HR RATED CONC WALL, NO OPENINGS

UP, 5 OPENINGS LIMITED TO 25% of WALL:
380 SF x 25% = 94> 93 of WINDOW & DOOR, THEREFORE OK

(E) STORAGE SHED

(N) MEN MEDICAL RESPITE (19 BEDS) ROOM 4

(N) WOMEN MEDICAL RESPITE (8 BEDS) 5

(N) TRASH ENCLOSURE

(N) SPRINKLER RATED ATTIC ACCESS

(N) WOMEN BATHROOM 6

(N) MEN BATHROOM 8

(N) WOMEN ADA BATH 7

(N) MEN ADA BATH 9

(N) KITCHEN 10

(N) PANTRY 11

(N) WALK-IN REFER

(N) WALK-IN FREEZER

(N) MEN EMERGENCY HOUSING (25 BEDS) 2

CORRIDOR 26

CORRIDOR 27

CORRIDOR 3

CORRIDOR 20

ATTIC ACCESS 40x48

T.V. ROOM 30

DINING / COMMONS 31

5-1/2" min.

5-1/2" min.

36x48 Clear, typ

ACCORDIAN DOORS

IN FILL (E) DOOR

(N) PARTITIONS SEPARATING INDIVIDUAL SLEEPING AREAS

(N) MEN - TRANSITIONAL HOUSING (26 BEDS) ROOM 33

CORRIDOR 41

(N) DRINKING FOUNTAIN WATER BOTTLE FILLER

(N) WAITING ROOM 40

SHELVING (N.I.C.)

(N) LINEN 39

(N) EXAM 41

SHOWER MEN 42

TOILET MEN 43

(N) SUPPLY 46

(N) LAUNDRY 38

30x48 Par. Approach

(N) 30x48 RATED ATTIC ACCESS

SHOWER WOMEN 44

TOILET WOMEN 45

(N) MEN TRANSITIONAL HOUSING ROOM 34 - 12 BEDS

(N) OFFICE 50

(N) MEN TRANSITIONAL HOUSING ROOM 35 -12 BEDS

CORRIDOR 48

(N) WOMEN - TRANSITIONAL HOUSING (20 BEDS) ROOM 36

(N) WOMEN EMERGENCY HOUSING ROOM 37

IN FILL (E) DOOR

(E) ELECT. EQUIP. 12

(N) STAFF MEETING 15

(N) STAFF TOILET 13

(N) STAFF TOILET 14

LOCKERS

(N) OFFICE 16

(N) OFFICE 17

(N) OFFICE 18

(N) OFFICE 19

(N) OFFICE 20

(N) COMPUTER ROOM 21

RECEPTION & INTAKE 32

(N) BUILT UP MULLION FOR WINDOW

(N) RECESSED KNOX BOX. CONFIRM LOCATION W/ FIRE

SIGN "C" on A (N) POLE

SIGN "D" on A (N) POLE

SIGN "C" on (N) POLE

SIGN "C" on A (N) POLE

SIGN "A" on A (N) POLE

ADA PATH OF ACCESS , TYP

SIGNAGE LEGEND
E = ENTRY SIGN PER 5/A-7.9
F = ROOM SIGN PER 6/A-7.1
G = EXIT SIGN PER 1/A-7.9
H = EXIT ROUTE PER 8/A-7.9
J = MENS TOILET PER 9/A-7.9
K = WOMENS TOILET PER 10/A-7.9
L = UNISEX TOILET PER 11/A-7.9

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

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

These plans are copyrighted and are subject to copyright protection as an "architectural work" under Sec. 102 of the Copyright Act, 17 U.S.O. as amended December 1990 and known as Architectural Works Copyright Protection Act of 1990. The protection includes but is not limited to the overall form as well as the arrangement and composition of spaces and elements of the design. Under such protection, unauthorized use of these plans, work or home represented, can legally result in the cessation of construction or building being seized and /or monetary compensation to CJW Architecture.

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 ◦

MAIN FLOOR PLAN

◦ REVISIONS ◦

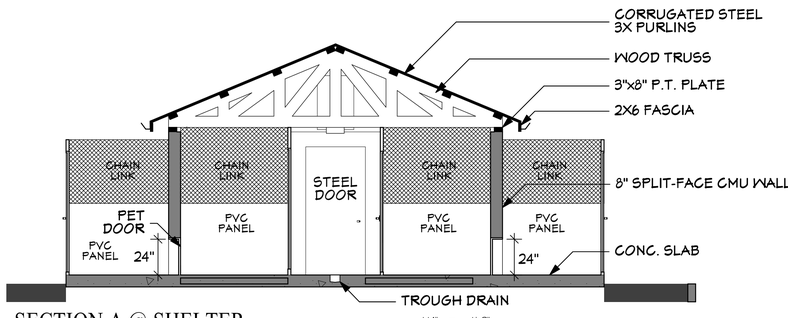
No.	Date	Notes
1	6-17-2016	Building Submittal
2	8-15-2016	FC#1/ Add #3

◦ JOB: 2015.2801

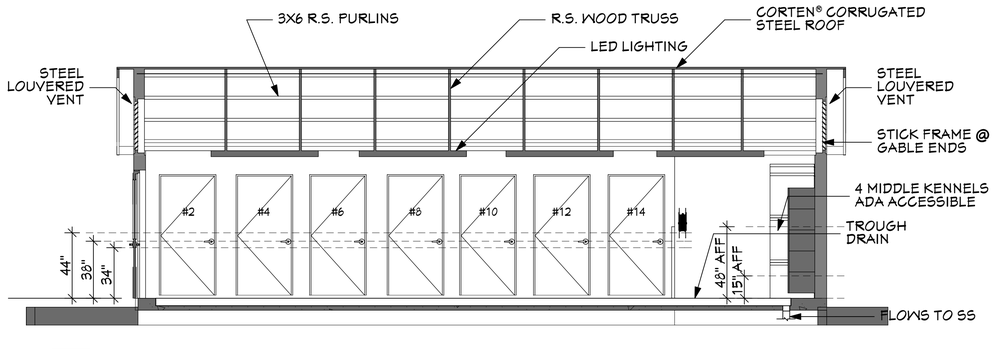
◦ DATE: 6/17/2016

◦ SHEET: A-2.1

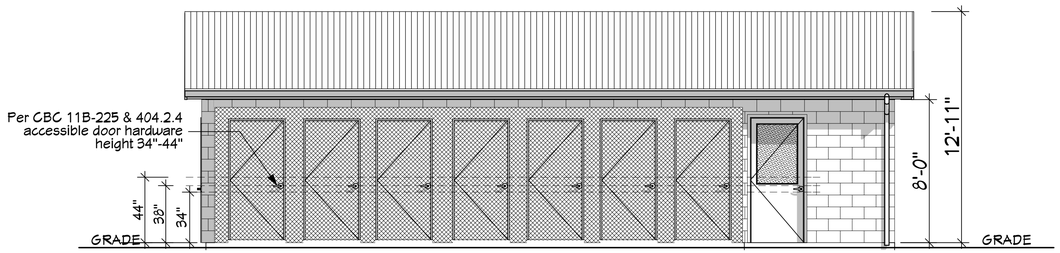
Friday, August 19, 2016 1:20 PM



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

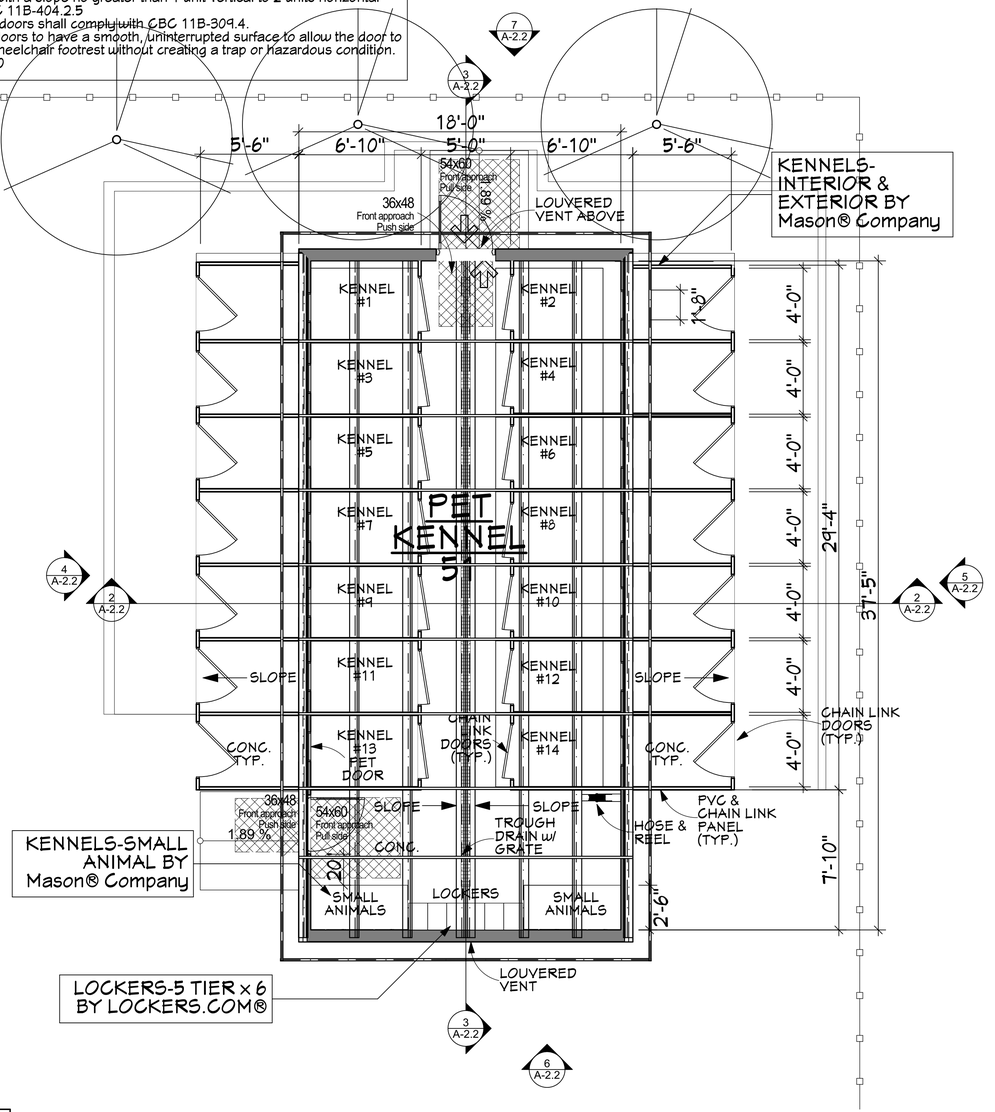


3 SECTION B @ SHELTER 1/4" = 1'-0"

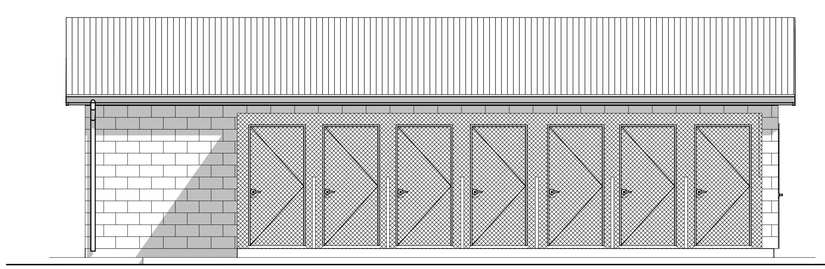


4 KENNEL WEST ELEVATION 1/4" = 1'-0"

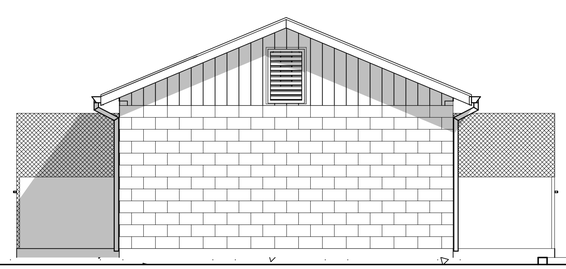
a) Accessible hardware is centered between 34" and 44" above the floor. CBC 11B-404.2.7
b) Floor in the direction of travel shall not be more than ½" lower than the threshold of the doorway. Change in level between ¼" and ½" shall be beveled with a slope no greater than 1 unit vertical to 2 units horizontal (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



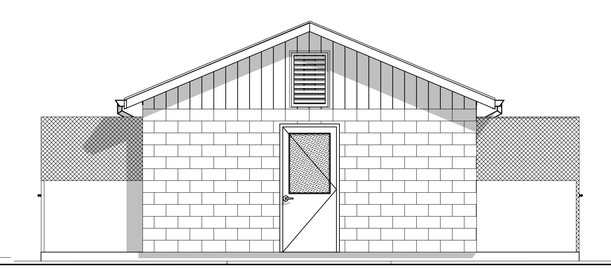
1 Main Floor Plan 1/4" = 1'-0"



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



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



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

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

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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 ◦

PET KENNEL 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-2.2

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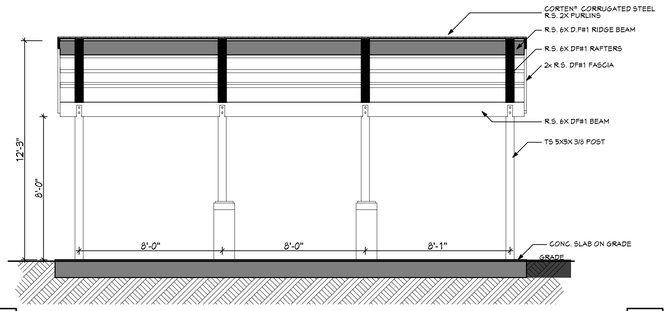
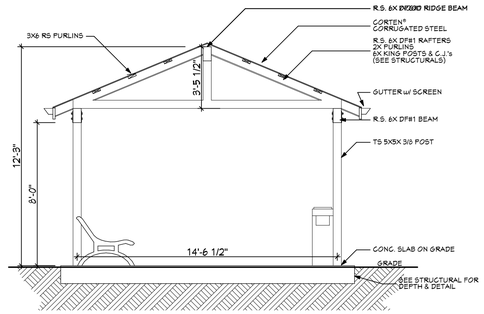
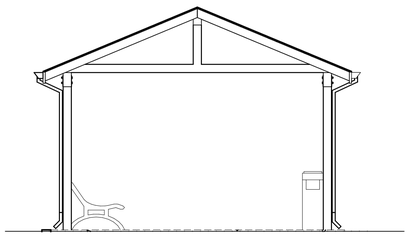


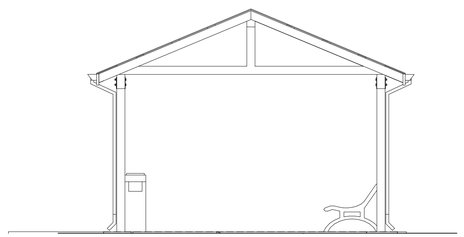
2 SECTION B @ CABANA 1/4" = 1'-0"



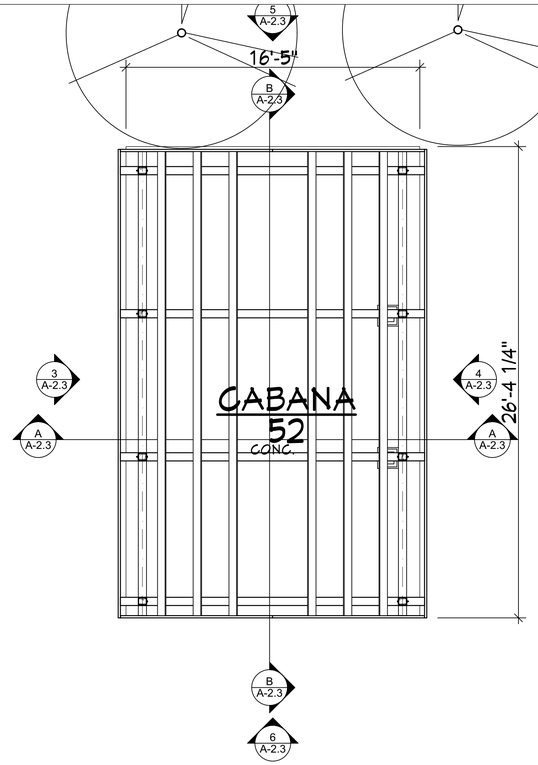
1 SECTION A @ CABANA 1/4" = 1'-0"



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



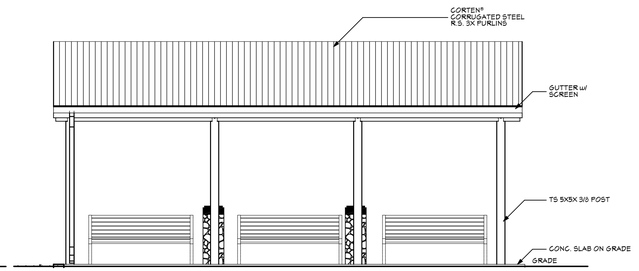
5 CABANA NORTH ELEVATION 1/4" = 1'-0"



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



3 CABANA WEST ELEVATION 1/4" = 1'-0"



4 CABANA EAST ELEVATION 1/4" = 1'-0"

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

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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 ◦

SMOKING CABANA PLAN

◦ REVISIONS ◦

No.	Date	Notes
1	6-17-2016	Building Submittal

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: A-2.3

Friday, August 19, 2016 1:20 PM
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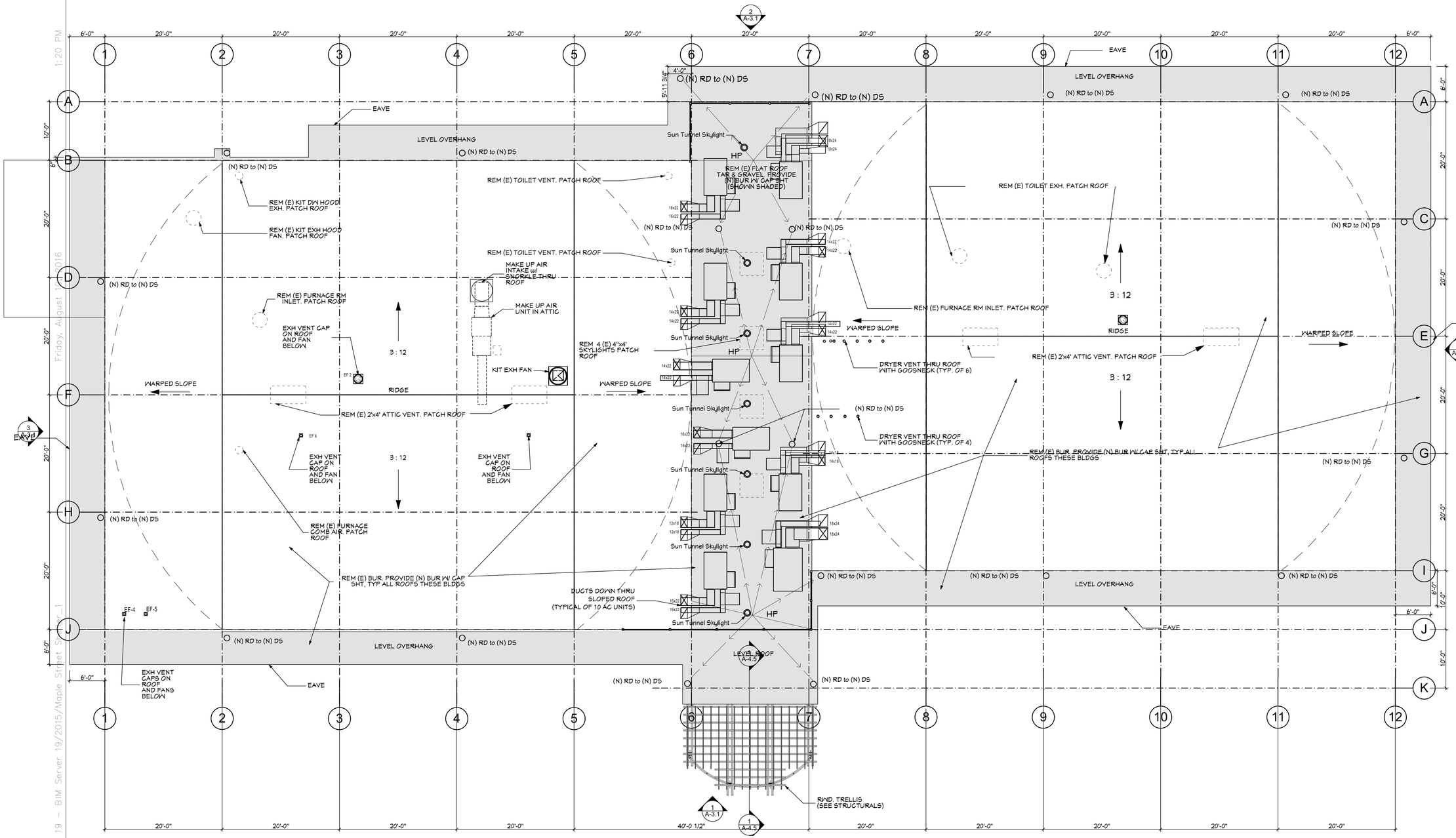

1 Roof Plan 1/8" = 1'-0"

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

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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 ◦

ROOF PLAN

◦ REVISIONS ◦

No.	Date	Notes
1	6-17-2016	Building Submittal

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: A-2.4

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Friday, August 05, 2016 1:20 PM

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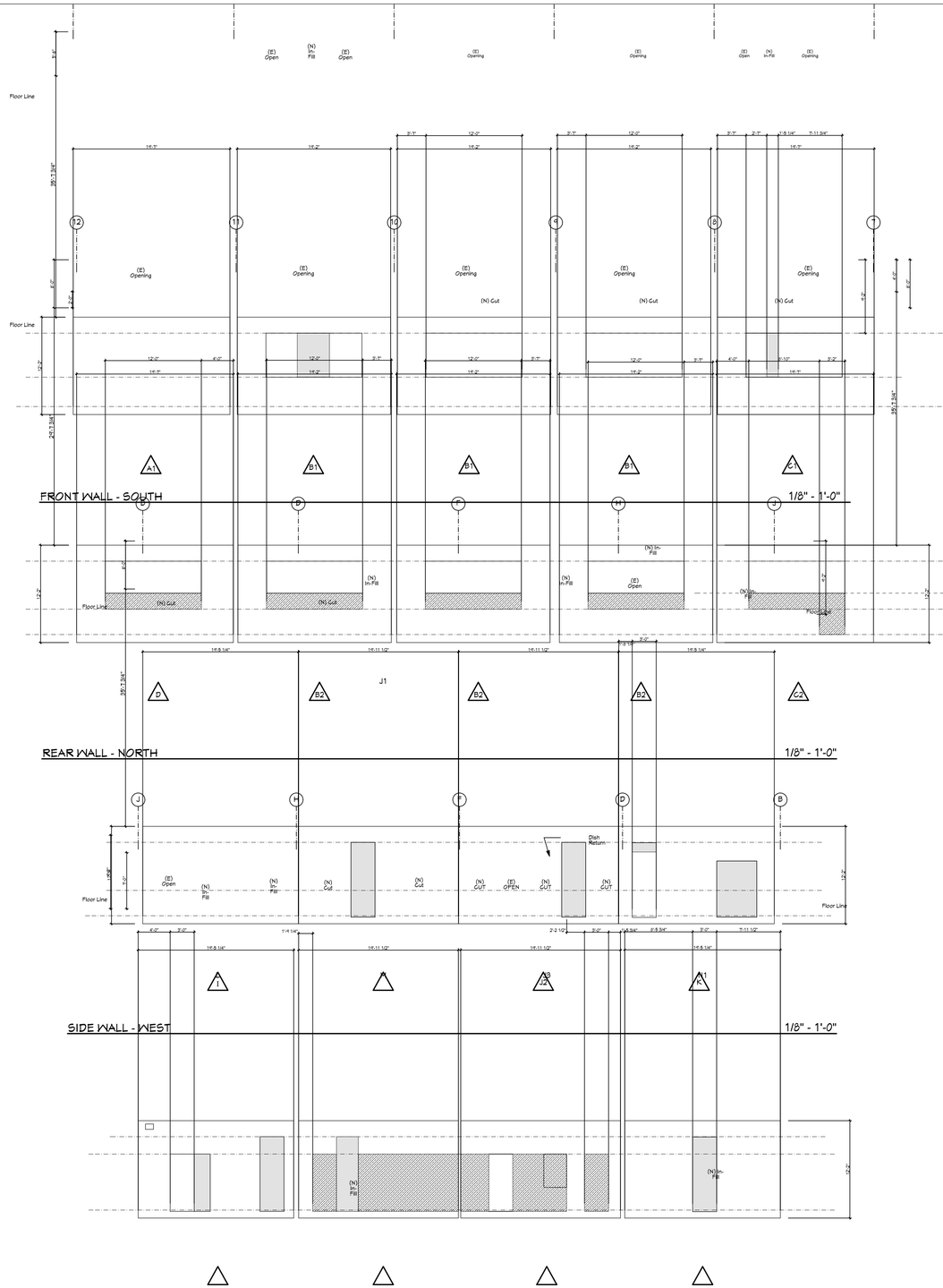

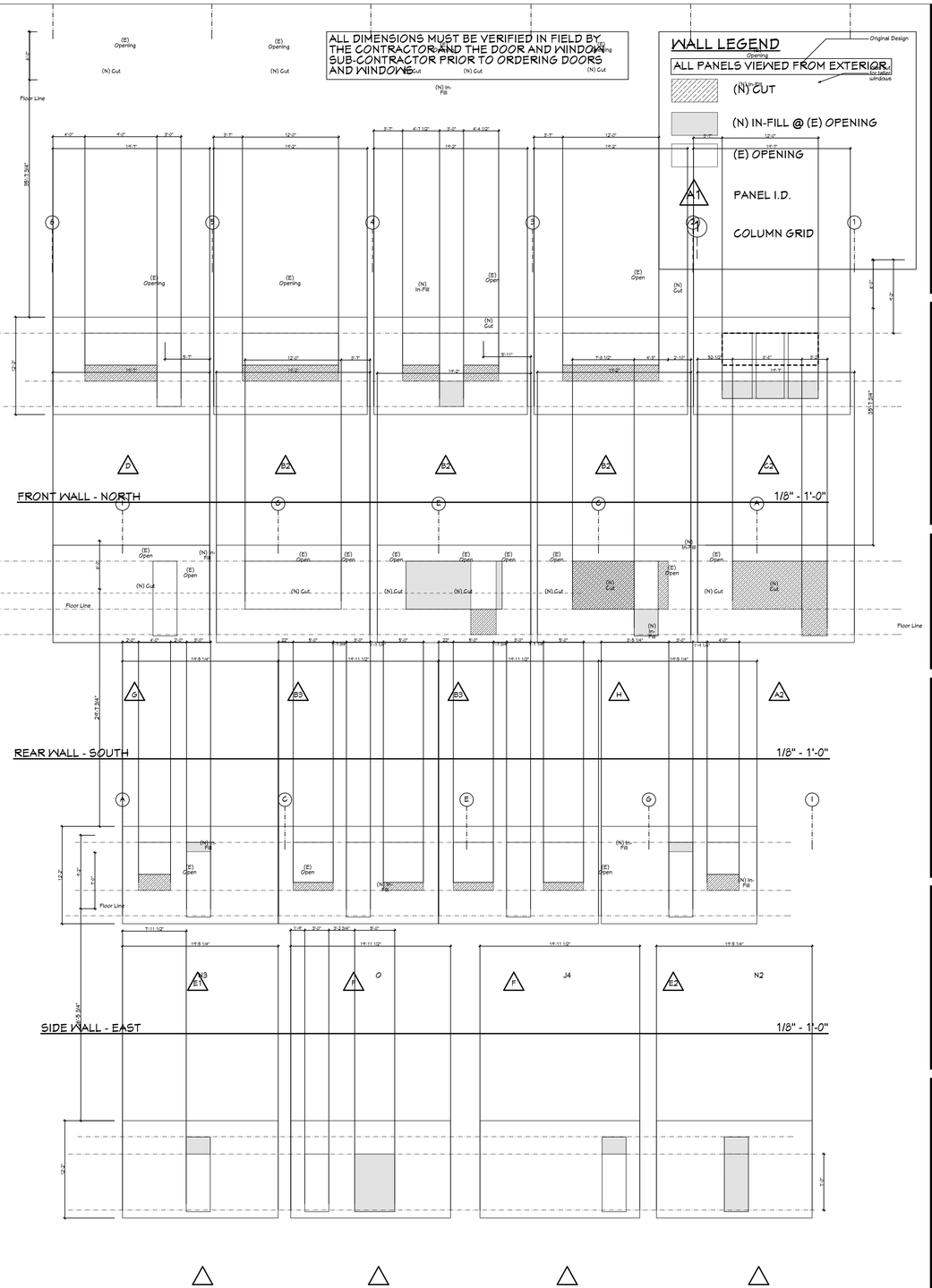

CJ W ARCHITECTURE
130 Portola Road, suite A
Portola Valley, CA 94028
(650) 851-9335 / (Fax) 851-9337

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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 ◦

WALL PANELS

◦ REVISIONS ◦

No.	Date	Notes
1	6-17-2016	Building Submittal

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: A-2.5

BIM Server: C:\JW BIM Server 19 — BIM Server 19/2015/Maple Street Shelter_1

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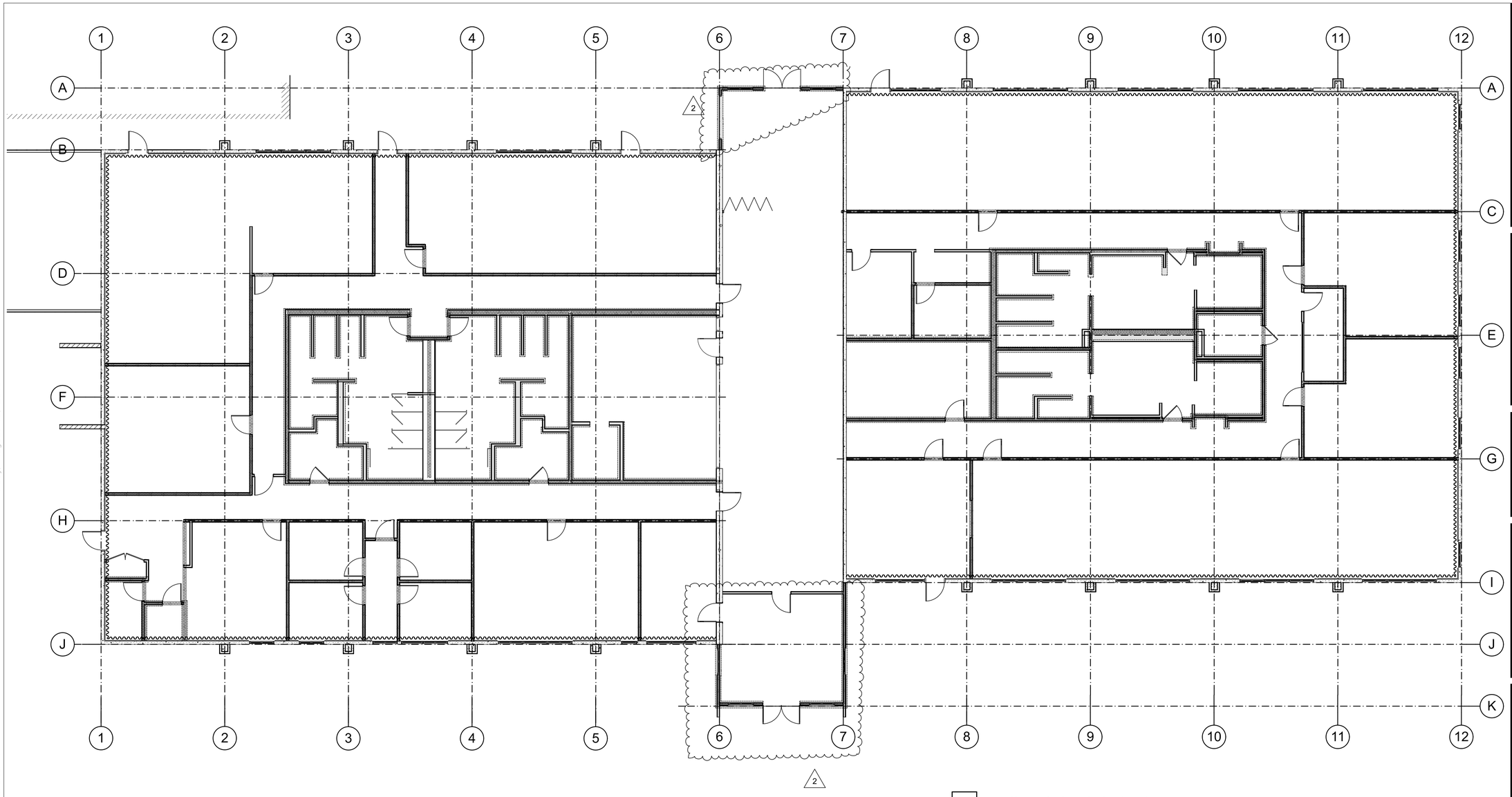
BIM Server: CJW BIM Server 19 – BIM Server 19/2015/Maple Street Shelter_1



1 Wall Insulation & Curb Plan 1/8" = 1'-0"

2

WALL INSULATION & CURB LEGEND

1 1/2" SPRAY FOAM INSUL.(OR RIDGID) W/ 1 1/2" HAT CHANNELS

4" OR 6" STUD WALL W/ MINERAL FIBER SAFB. UL U404 Or UL U433

6" HIGH X WALL WIDTH CONC. CURB SEE DETAIL

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

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

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

◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

WALL INSULATION & CURB PLAN

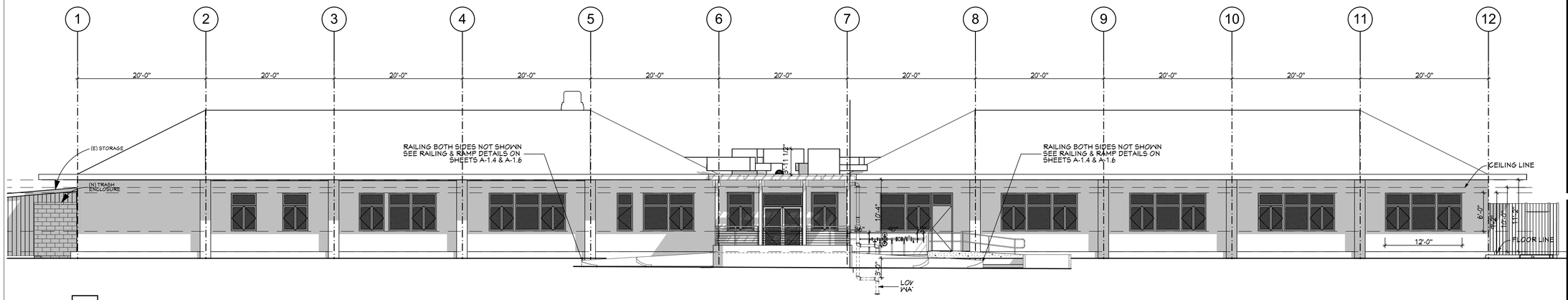
◦ REVISIONS ◦

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

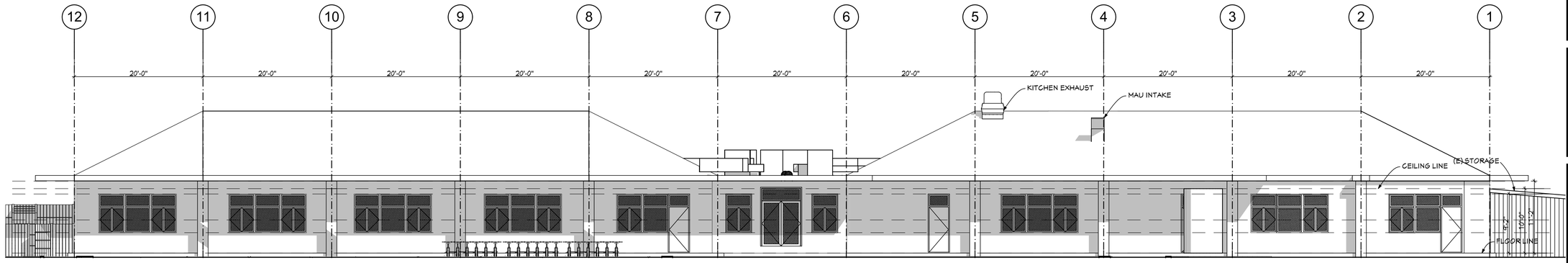
◦ JOB: 2015.2801

◦ DATE: 6/17/2016

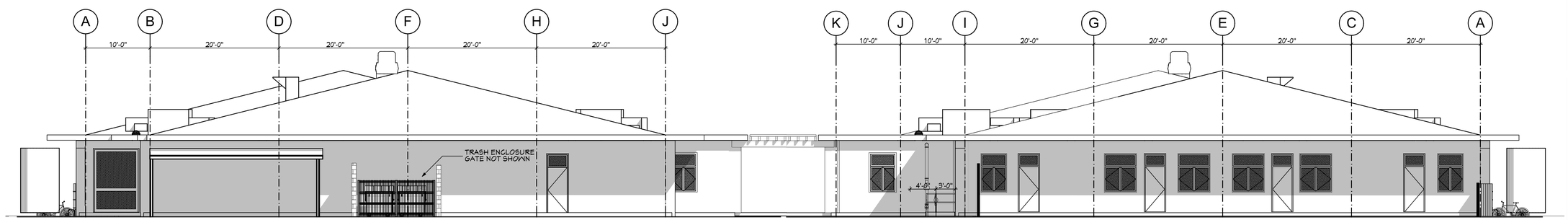
◦ SHEET: A-2.6



1 East Elevation 1/8" = 1'-0"



2 West Elevation 1/8" = 1'-0"



3 South Elevation 1/8" = 1'-0"

4 North Elevation 1/8" = 1'-0"

CJ W ARCHITECTURE
130 Portola Road, suite A
Portola Valley, CA 94028
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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 ◦

EXTERIOR ELEVATIONS

◦ REVISIONS ◦

No.	Date	Notes
1	6-17-2016	Building Submittal

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: A-3.1

Friday, August 19, 2016 1:20 PM
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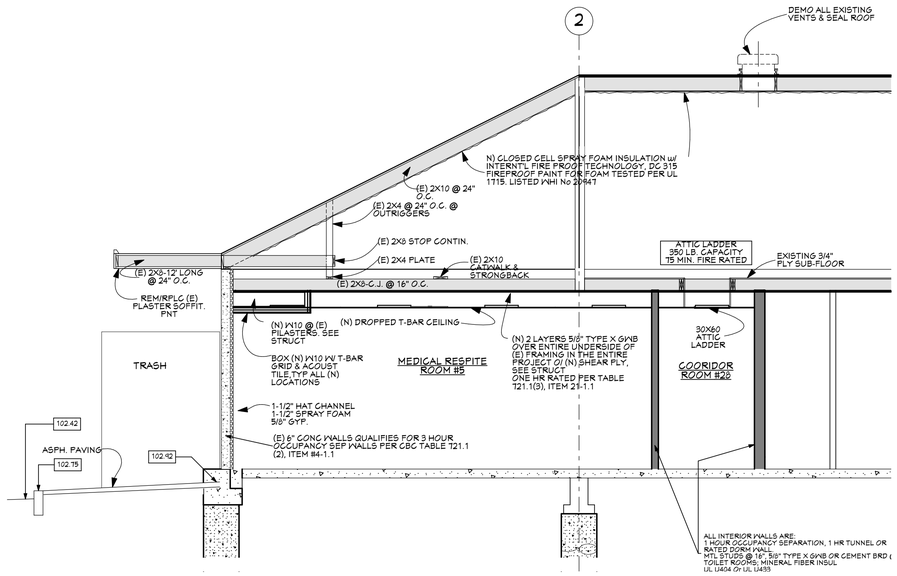
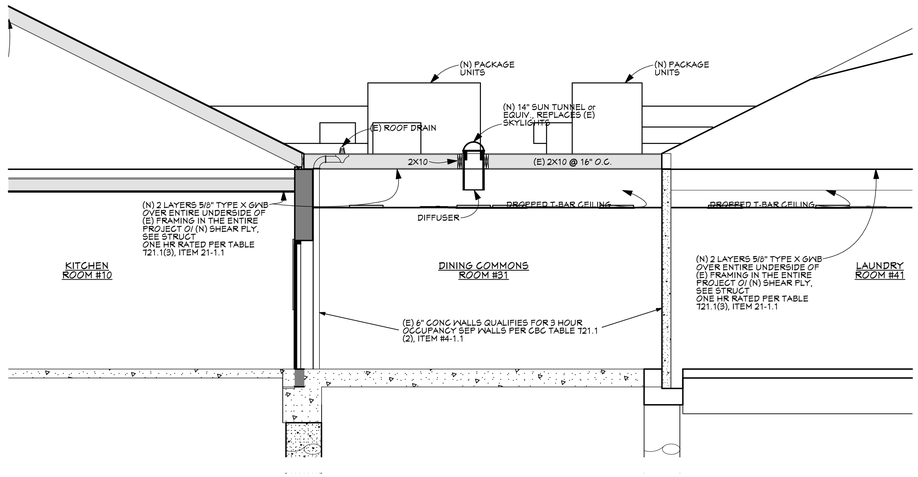
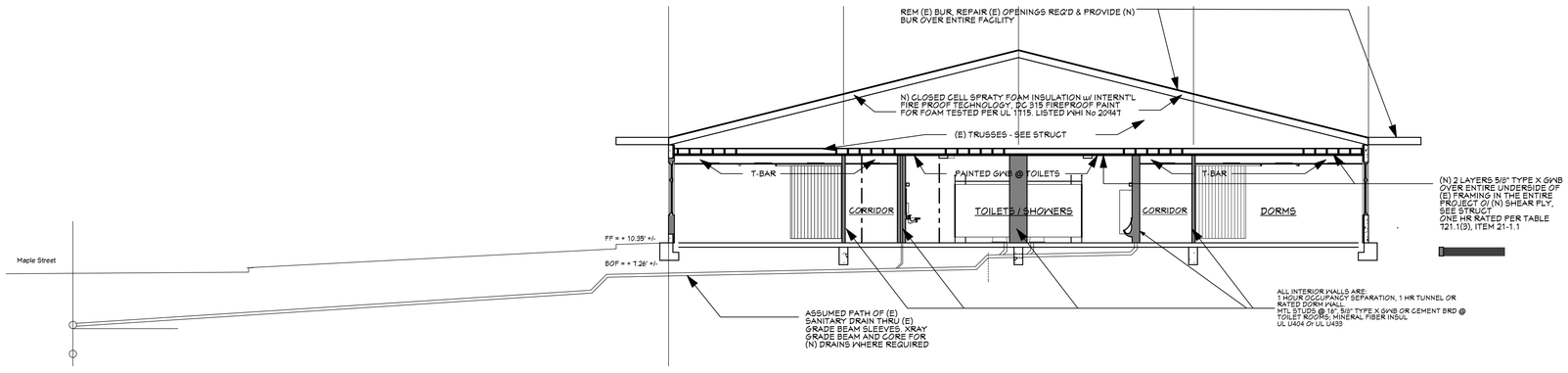


1 Partial Cross Section @ Medical Respite 1/4" = 1'-0"



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



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

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

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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 ◦

BUILDING SECTIONS

◦ 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-4.1

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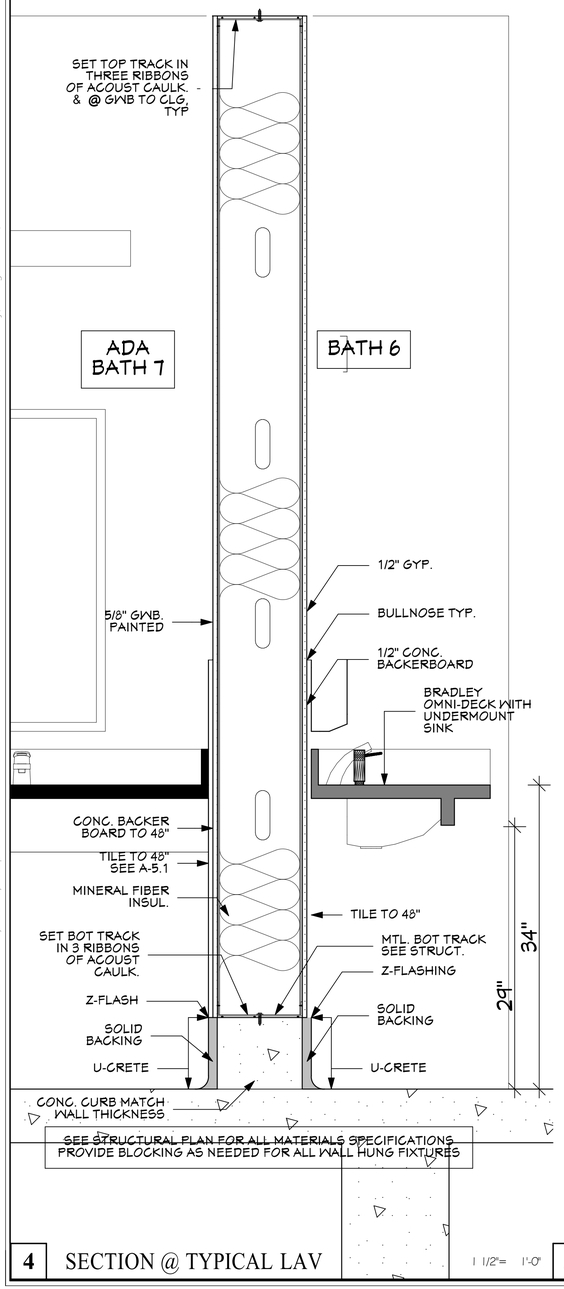
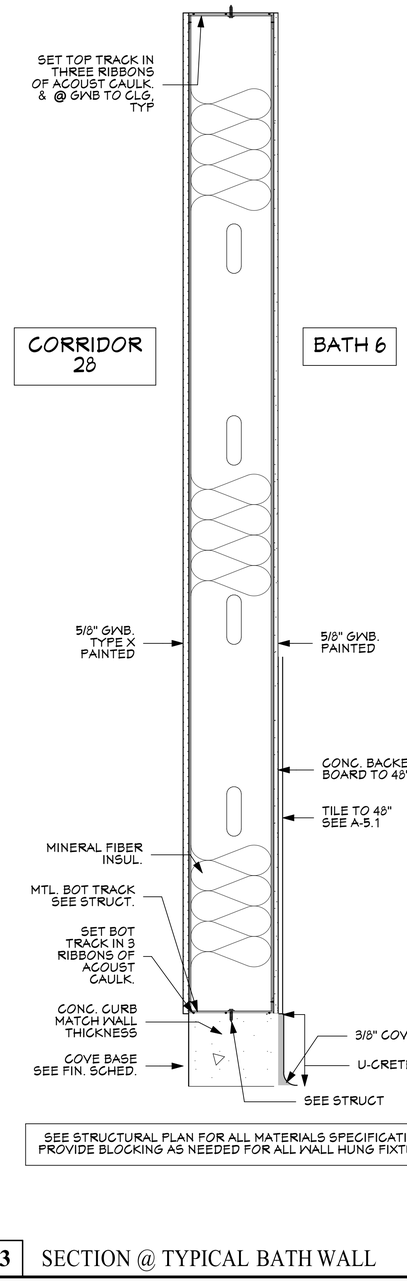
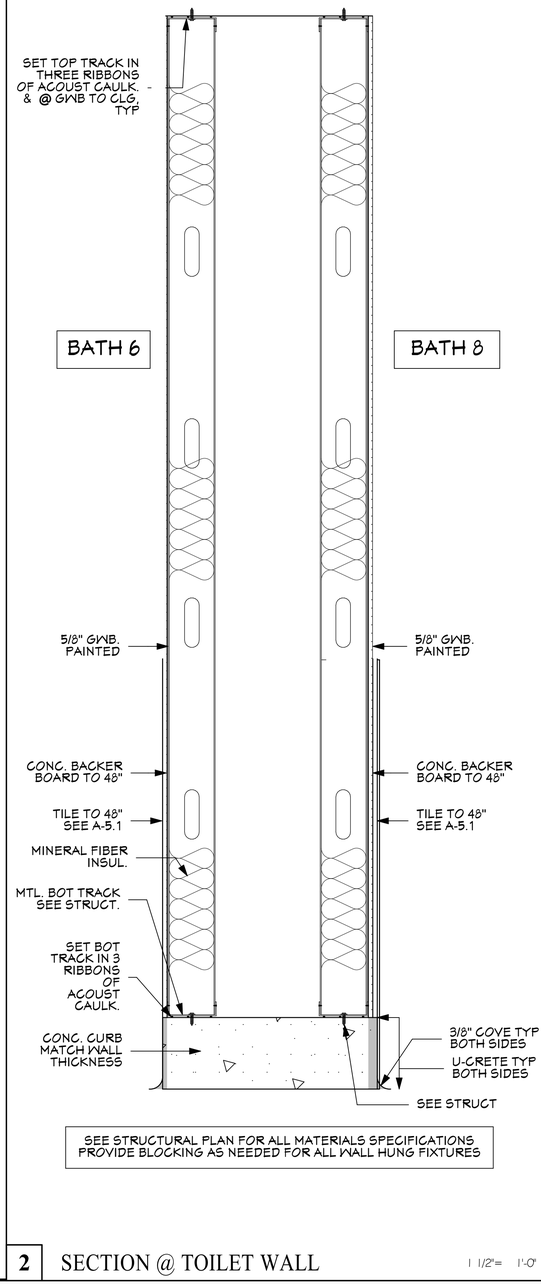
Friday, August 19, 2016 1:20 PM
BIM Server: CJW BIM Server 19 — BIM Server 19/2015/Maple Street Shelter_1



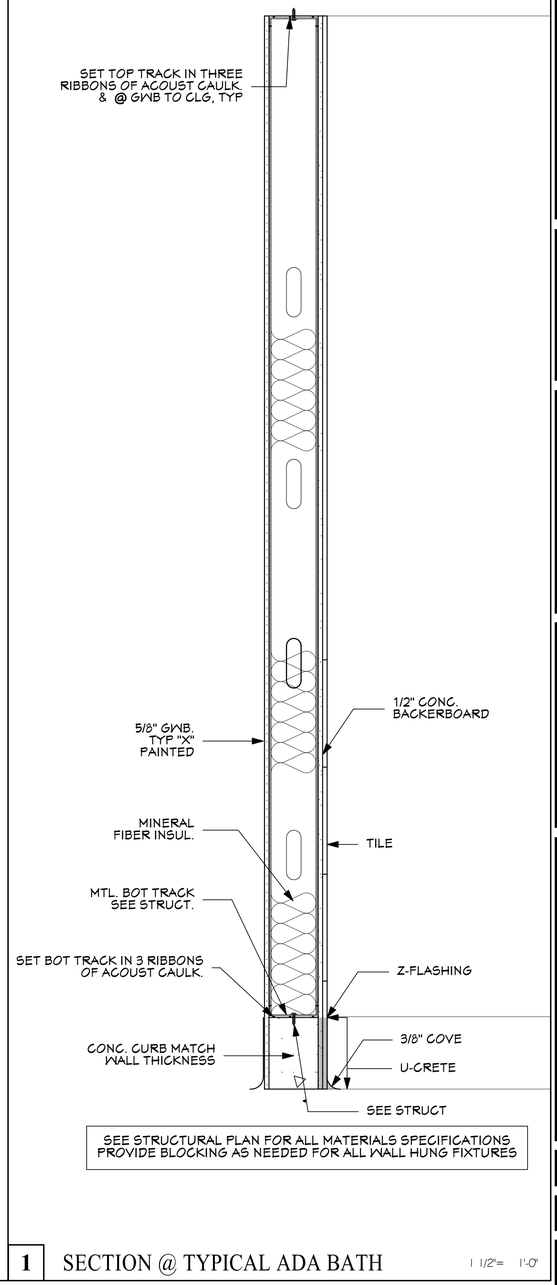
4 SECTION @ TYPICAL LAV 1 1/2"= 1'-0"



3 SECTION @ TYPICAL BATH WALL 1 1/2"= 1'-0"



2 SECTION @ TOILET WALL 1 1/2"= 1'-0"



1 SECTION @ TYPICAL ADA BATH 1 1/2"= 1'-0"

CJ W ARCHITECTURE
130 Portola Road, suite A
Portola Valley, CA 94028
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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 ◦

WALL SECTIONS

◦ REVISIONS ◦

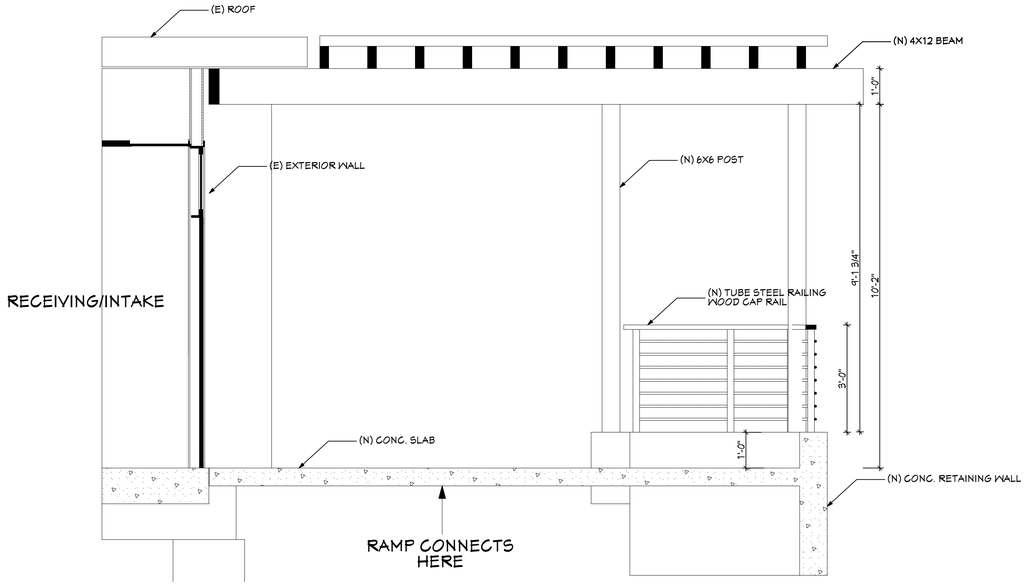
No.	Date	Notes
1	6-17-2016	Building Submittal
2	8-15-2016	FC#1/ Add #3

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: A-4.3

Friday, August 19, 2016 1:20 PM



1 SECTION @ TRELLIS 1/2" = 1'-0"

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

These plans are copyrighted and are subject to copyright protection as an "architectural work" under Sec. 102 of the Copyright Act, 17 U.S.O. as amended December 1990 and known as Architectural Works Copyright Protection Act of 1990. The protection includes but is not limited to the overall form as well as the arrangement and composition of spaces and elements of the design. Under such protection, unauthorized use of these plans, work or home represented, can legally result in the cessation of construction or building being seized and /or monetary compensation to CJW Architecture.

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 ◦

TRELLIS SECTIONS

◦ REVISIONS ◦

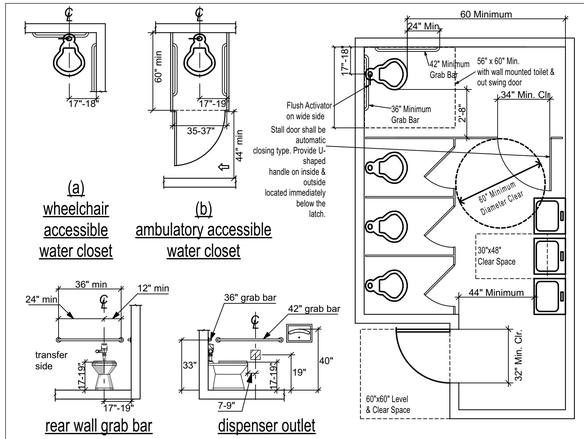
No.	Date	Notes

◦ JOB: 2015.2801

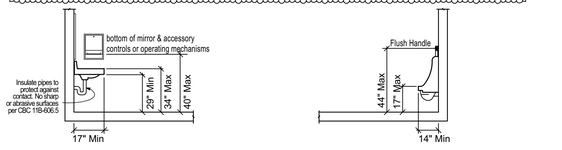
◦ DATE: 6/17/2016

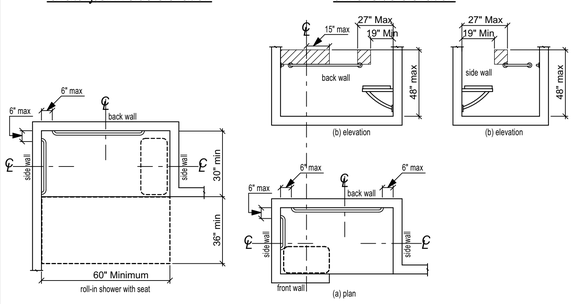
◦ SHEET: A-4.5

BIM Server: CJW BIM Server 19 — BIM Server 19/2015/Maple Street Shelter_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).

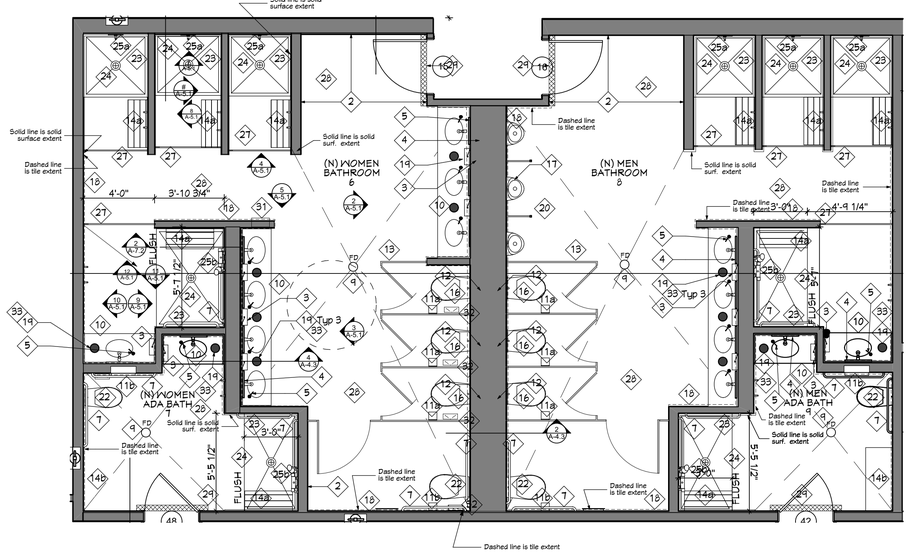




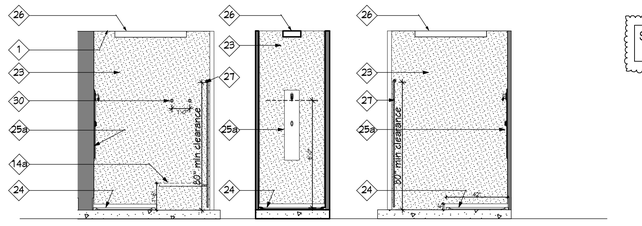
Typical ADA Dimensions

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 780-1836
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 #T1 & #10 for dimensions and detail
14b. Shower bench
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

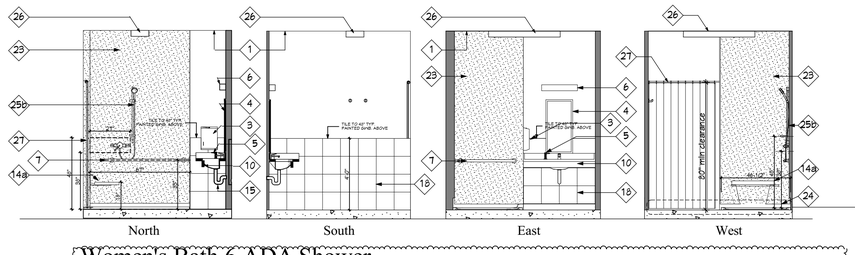


1 South Bathroom Core 1/4" = 1'-0" △2

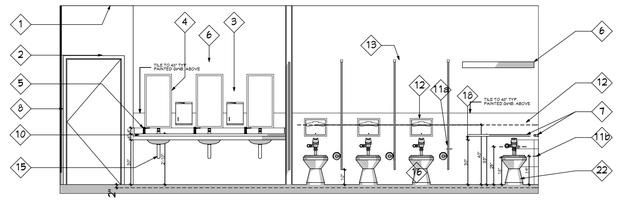


Women's Bath 6 Standard Shower 1/4" = 1'-0"

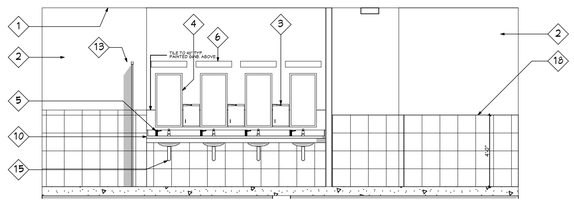
SEE SHEET A-7.11 FOR ADA CLEARANCES AT DOORS AND FIXTURES FOR THIS PROJECT



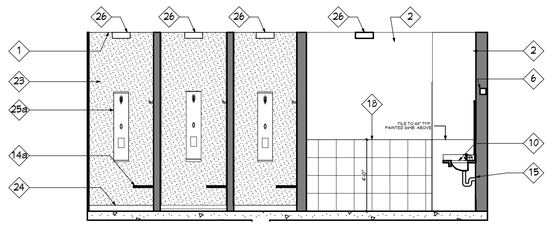
Women's Bath 6 ADA Shower 1/4" = 1'-0"



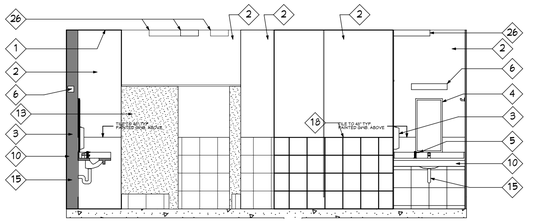
2 Women's Bath 6 North 1/4" = 1'-0"



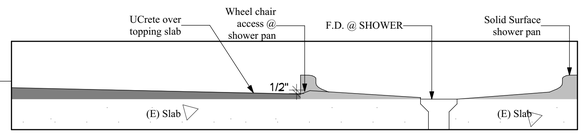
3 Women's Bath 6 South 1/4" = 1'-0"



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



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



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 ◦

ADA BATHROOM DETAIL

◦ REVISIONS ◦

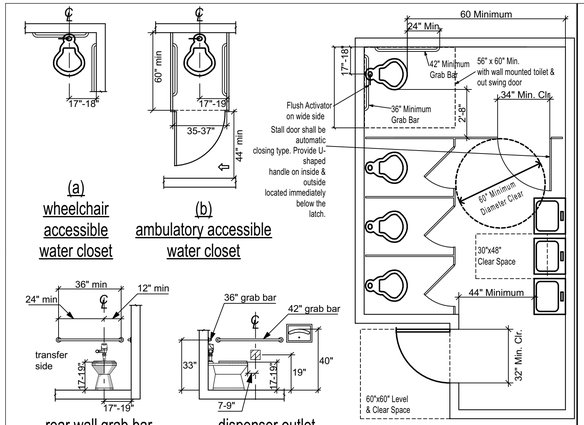
No.	Date	Notes
1	6-17-2016	Building Submittal
△2	8-15-2016	PC#1/ Add #3

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: A-5.1

Friday, August 19, 2016 1:20 PM
BIM Server: CJW BIM Server 19 – BIM Server 19/2015/Maple Street Shelter_1



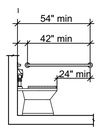
(a) wheelchair accessible water closet

(b) ambulatory accessible water closet

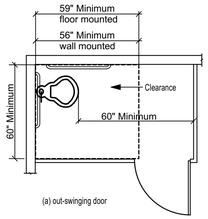
rear wall grab bar at water closets

dispenser outlet & side view

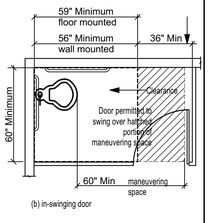
multiple accomodation toilet



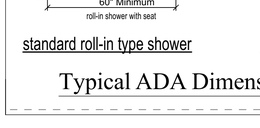
side wall grab bar at water closets



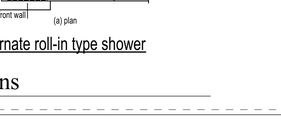
maneuvering space with side-opening door



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
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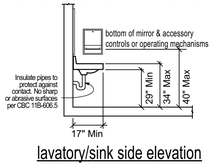
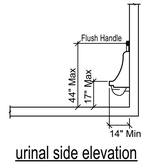
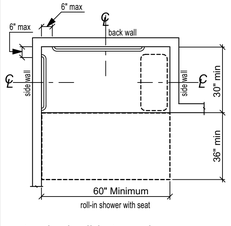


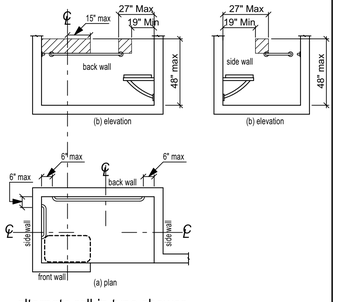
lavatory/sink side elevation



urinal side elevation



standard roll-in type shower

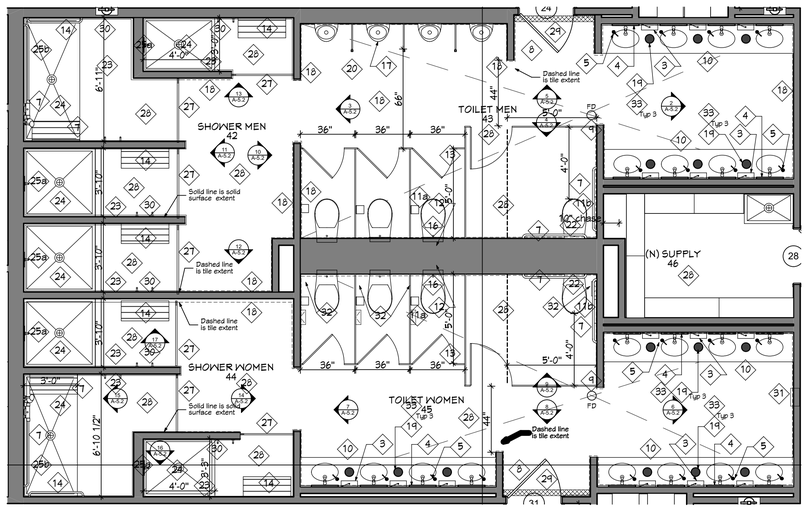


alternate roll-in type shower

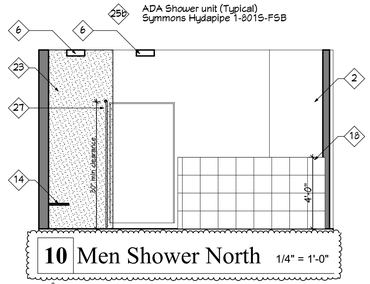
Typical ADA Dimensions

SHEET NOTES:

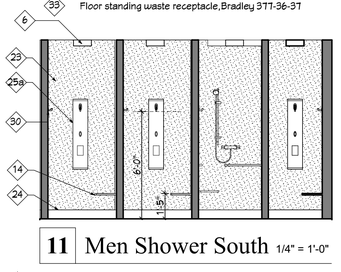
1. Painted GWB ceiling on wd framing
2. Painted GWB
3. Paper towel dispenser Bradley 250-15
4. Mirror with shelf (Typical) Bradley model 1805-1836
5. Soap dispenser (Typical) Bradley 6324
6. LED strip light, moisture resistant. See electrical
7. Grab bar. Provide in wall 4 x 6 blk'g w/ A35 clips T & 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, HN, GN, (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



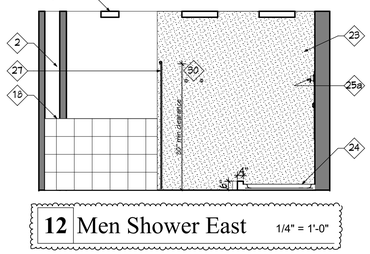
1 Main Floor - Enlarged 1/4" = 1'-0"



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



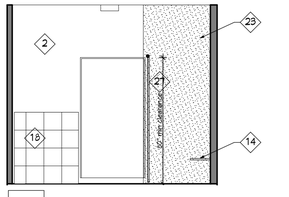
11 Men Shower South 1/4" = 1'-0"



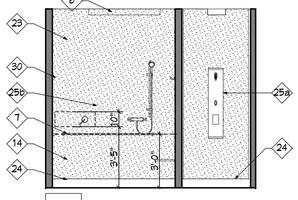
12 Men Shower East 1/4" = 1'-0"



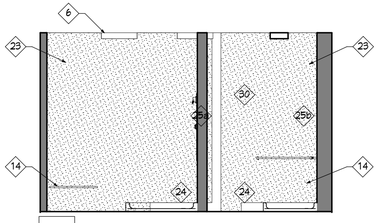
13 Men Shower West 1/4" = 1'-0"



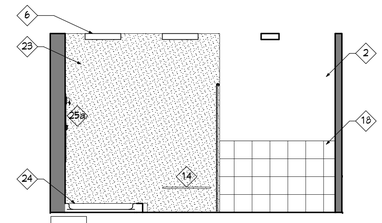
14 Shower Women North



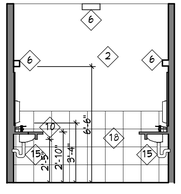
15 Shower Women South



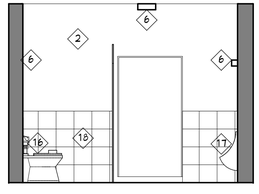
16 Shower Women East



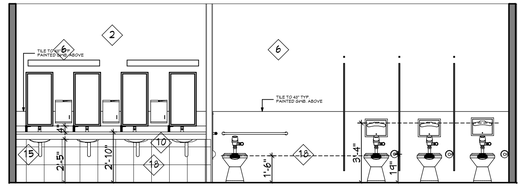
17 Shower Women West



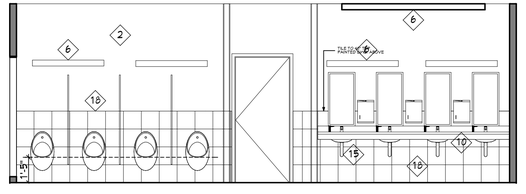
2 Men's North 1/4" = 1'-0"



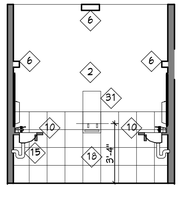
3 Men's South 1/4" = 1'-0"



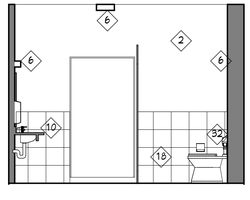
4 Men's - East 1/4" = 1'-0"



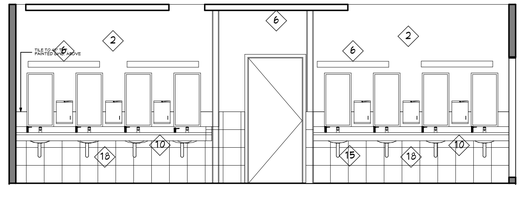
5 Men's - West 1/4" = 1'-0"



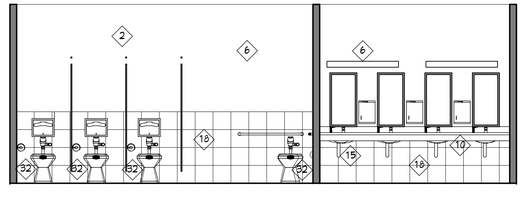
6 Women's North 1/4" = 1'-0"



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



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



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

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

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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	PC#1/ Add #3

JOB: 2015.2801

DATE: 6/17/2016

SHEET: A-5.2

Friday, August 19, 2016 1:21 PM
BIM Server: C:\JW BIM Server 19 - BIM Server 19/2015/Maple Street Shelter_1

ROOM FINISH SCHEDULE

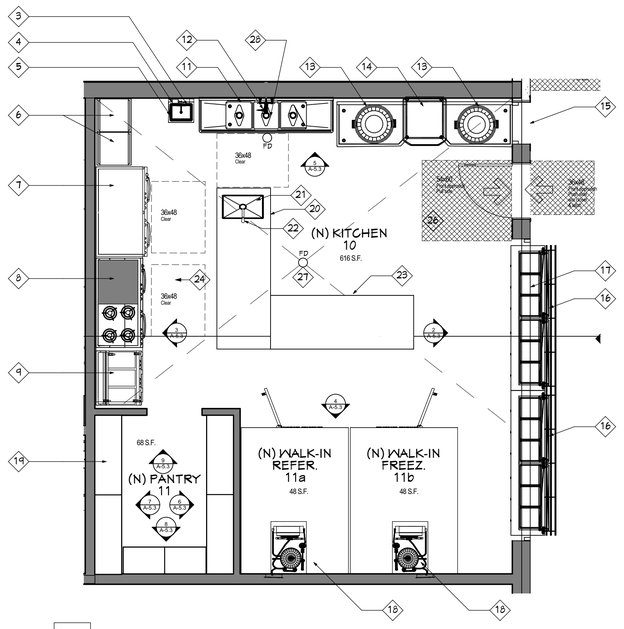
No.	Room Name	FLOOR Finish	BASE Finish	WALLS N Wall	WALLS E Wall	WALLS S Wall	WALLS W Wall	CEILING Finish	CEILING clg. ht.	REMARKS
10	KITCHEN	F1	B1	W1	W1	W1	W1	C1	10'-0"	
11	PANTRY	F1	B1	W1	W1	W1	W1	C1	10'-0"	
11a	WALK-IN REFRIGERATOR	F2	N/A	W2	W2	W2	W2	C2	7'-1"	Appliance
11b	WALK-IN FREEZER	F2	N/A	W2	W2	W2	W2	C2	7'-1"	Appliance

FINISH SCHEDULE LEGEND

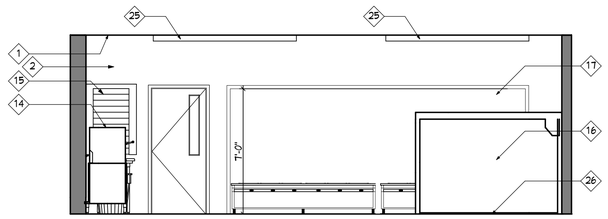
FLOOR	BASE	WALL	CEILING
F1 = UCrete HF Polyurethane F5 = F2 = Aluminum - Smooth finish F6 = F3 = F4 =	B1 = UCrete WR Polyurethane for base & cove, 4" min. ht., 3/8" min. radius btw. floor and wall base. B2 = B3 = N/A = Not Applicable @ this room	W1 = Painted Gypsum wall board, Sherwin Williams Paint Shield Microbicidal paint. W2 = 26GA. corrosion resistant, embossed, coated steel W3 =	C1= Painted GYP. Sherwin Williams Paint Shield Microbicidal paint. C2 = embossed, coated steel C3 =

SHEET NOTES:

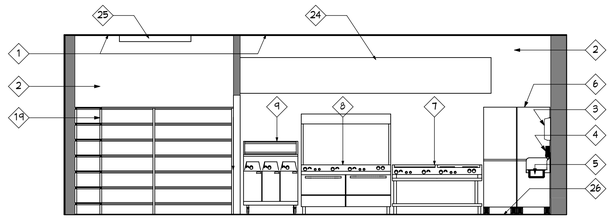
1. Painted GWB ceiling on wd framing Sherwin Williams Paint Shield Microbicidal paint.
2. Painted GWB Sherwin Williams Paint Shield Microbicidal paint.
3. Paper towel dispenser Bradley 250-15
4. Soap dispenser Bradley 650
5. Hand Wash Sink Elkay CHS1716 LRSC
6. Heated Holding Cabinet (EXISTING) N.I.C. Reuse existing appliances
7. Vulcan MSA Series 60" Griddle MSA60, 30" deep
8. Vulcan Endurance Series 60" range C60SS-6B24GBN
9. Frymaster MJ45-2
10. NOT USED
11. Three compartment sink Elkay 12" Standard Series Sinks 3C18x18-2-18X
12. Pre-Rinse Faucet, wall mount, 90 series, 1 gpm Spray w/ 12" swing spout Chicago Faucet, 510-GG613AL12ABCP
13. (2) BRUTE 32g, 27" High Trash - Recycle barrels, 1-grey, 1-blue model H-1045 (2) BRUTE dolly model: H-2630
14. Hobart Advansys Dishwasher Model: AM15VL
15. Alpine, Metal, rollup, Dish return door. fire rated, 30" x 44"
16. (2) Eagle PHT60B-208, 9T-3/4" Steam Table, 6 well, electric. Enclosed body, sneeze guard, casters, tray rail
17. Alpine Metal, roll up door, fire rated 16'-6" x 7'
18. Norlake Kold Locker Walk-Ins 77 Series 6'x8' with floor & chrome shelves (1) Freezer, (1) Refrigerator
19. Shelving. chrome, wire shelves on casters
20. Work Table: s.s base & shelf w/ maple top (custom) 36" x 108", 1-3/4" maple top, cut top for #21 undermount s.s. sink. John Boos SNS17A
21. Prep-Sink, undermount, single hole 18"x24"x12"d Advance Tabco 1824A-12
22. Prep-Sink Faucet, 5-1/4" gooseneck, single hole, single lever. Chicago Faucet, 350-E35-317XKABCP
23. Work Table: s.s. base & shelf w/ maple top 36" x 96", 1-3/4" maple top John Boos SNS17
24. Ventilation Hood (SEE Mechanical plans) Ansul Fire System (SEE Mechanical plans) Make Up Air Unit (SEE Mechanical plans)
25. Surface mount ceiling light LED (Typical) Moisture resistant. See Electrical Plan
26. UCrete heavy duty non-slip polyurethane floor (Typical)
27. F.D. Slope to drain (Typical)
28. InSink Erator SS-150 1-1/2 hp commercial disposer



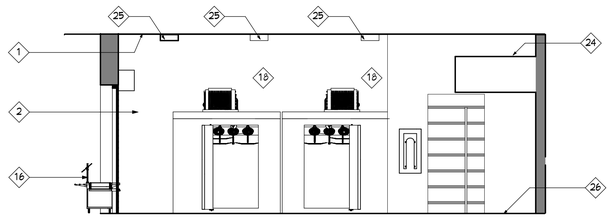
1 Kitchen 1/4" = 1'-0"



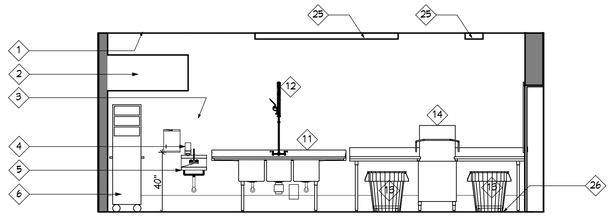
2 Kitchen North 1/4" = 1'-0"



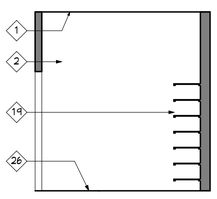
3 Kitchen South 1/4" = 1'-0"



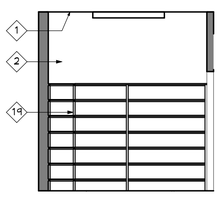
4 Kitchen East 1/4" = 1'-0"



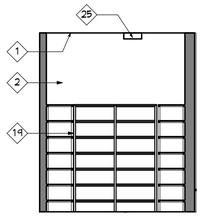
5 Kitchen West 1/4" = 1'-0"



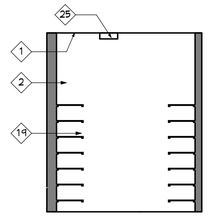
6 Storage North 1/4" = 1'-0"



7 Storage North 1/4" = 1'-0"



8 Storage North 1/4" = 1'-0"



9 Storage North 1/4" = 1'-0"

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

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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 ◦

KITCHEN DETAIL

◦ REVISIONS ◦

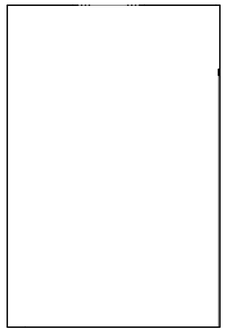
No.	Date	Notes
1	6-17-2016	Building Submittal

◦ JOB: 2015.2801

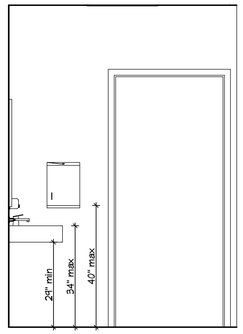
◦ DATE: 6/17/2016

◦ SHEET: A-5.3

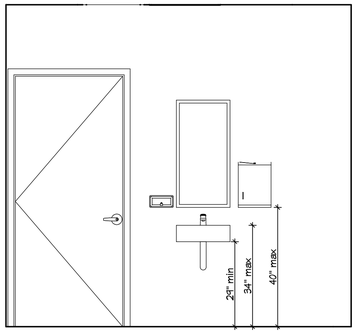
1:21 PM
Friday, August 19, 2016
BIM Server: CJW BIM Server 19 – BIM Server 19/2015/Maple Street Shelter_1



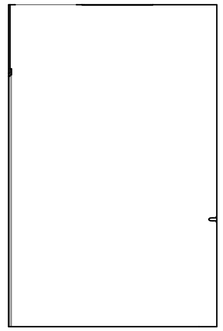
2 STAFF TOILET 13 1/2" = 1'-0"



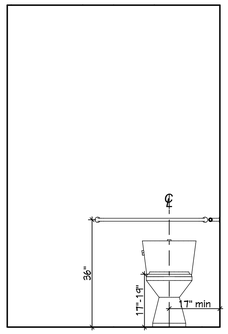
6 STAFF TOILET 14 1/2" = 1'-0"



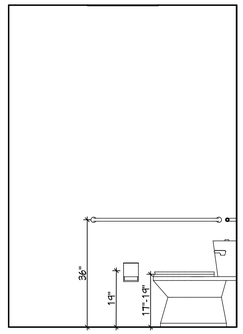
3 STAFF TOILET 13 1/2" = 1'-0"



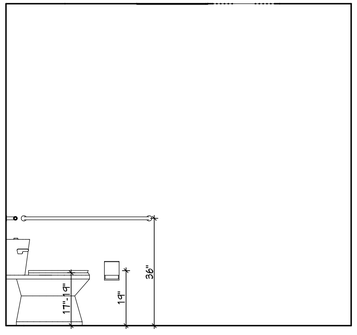
7 STAFF TOILET 14 1/2" = 1'-0"



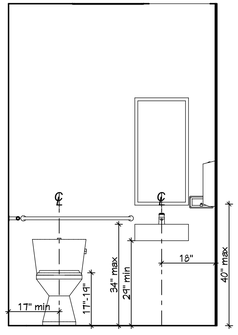
4 STAFF TOILET 13 1/2" = 1'-0"



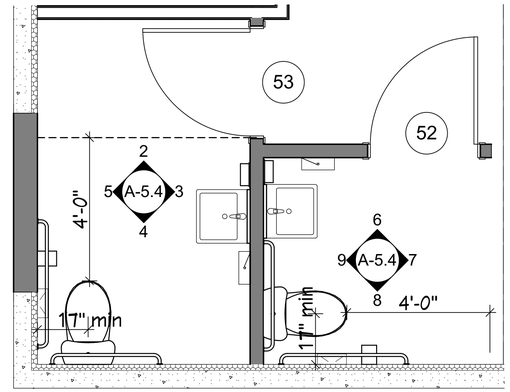
8 STAFF TOILET 14 1/2" = 1'-0"



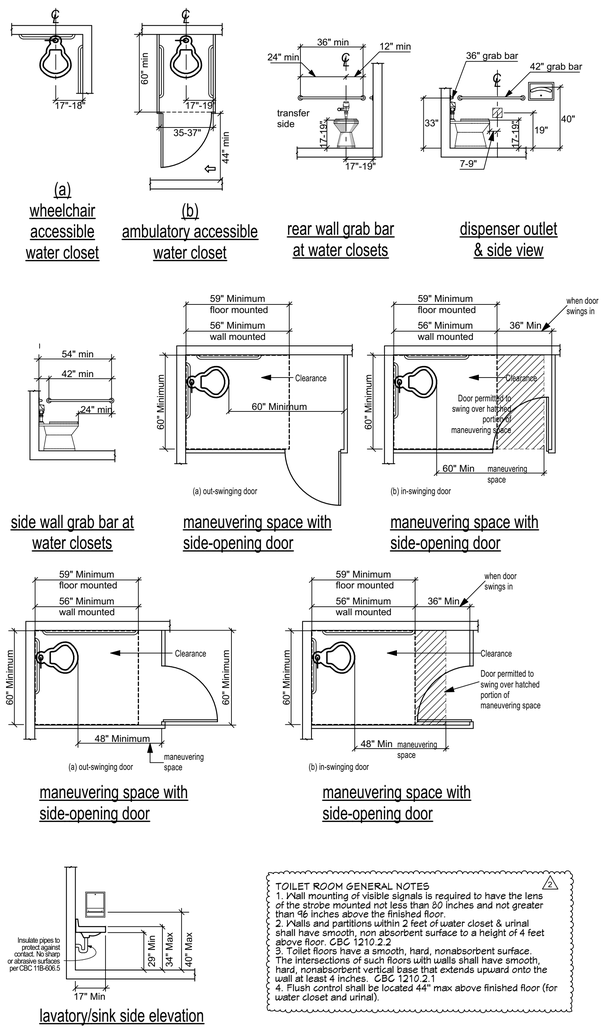
5 STAFF TOILET 13 1/2" = 1'-0"



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



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



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

CJ W ARCHITECTURE
130 Portola Road, suite A
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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

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: A-5.4

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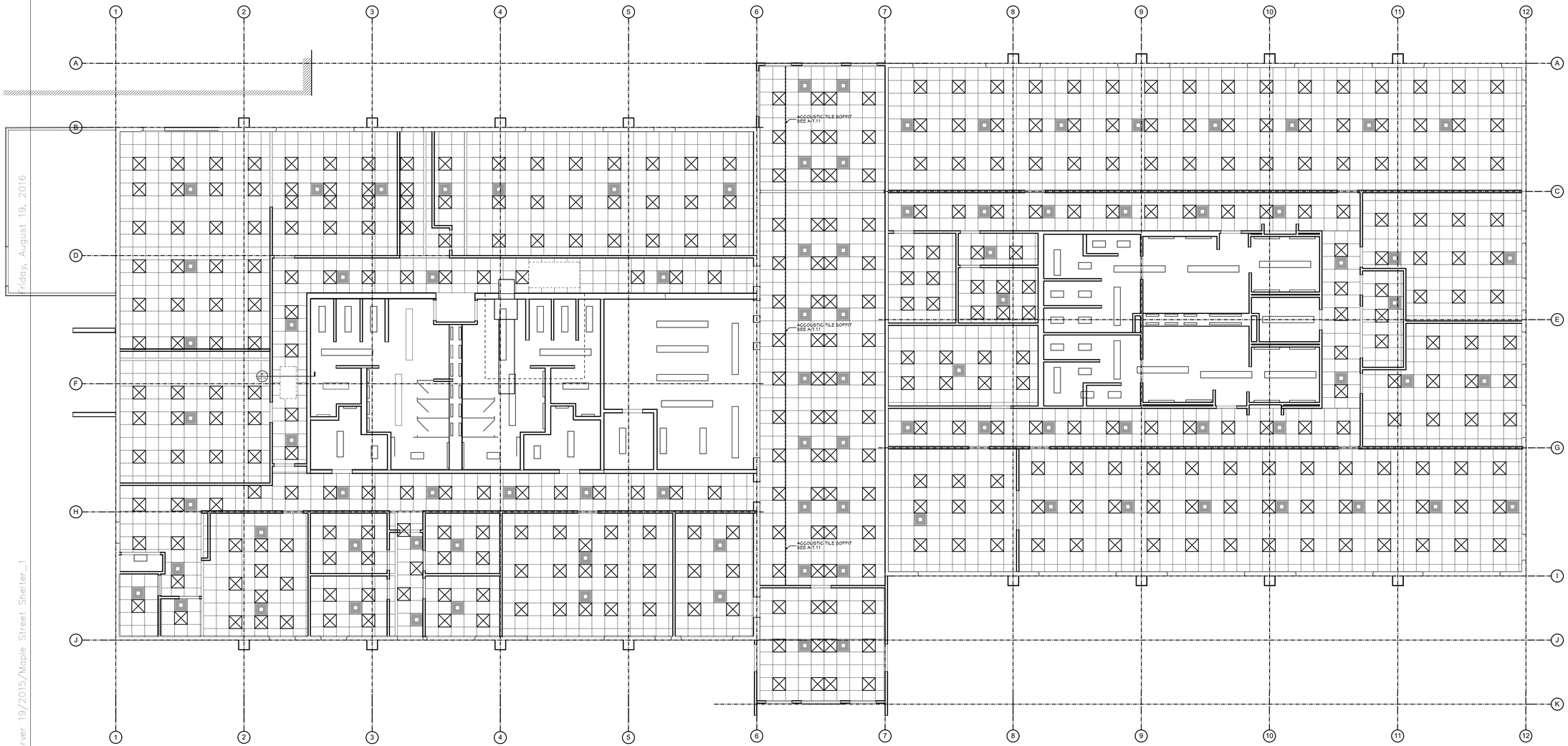

LEGEND

- 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
- 5' L.E.D SURFACE MOUNTED WALL LIGHT

CEILING HEIGHTS

ALL DROPPED T-BAR CEILINGS ARE 9'-0". ADJUST T-BAR CEILING HEIGHT AS REQUIRED FOR ROOM SPECIFIC CONDITIONS.

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

CJ W ARCHITECTURE
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Portola Valley, CA 94028
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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

REFLECTED CEILING PLAN

REVISIONS

No.	Date	Notes
1	6-17-2016	Building Submittal

JOB: 2015.2801

DATE: 6/17/2016

SHEET: A-6.1

Friday, August 19, 2016 1:21 PM
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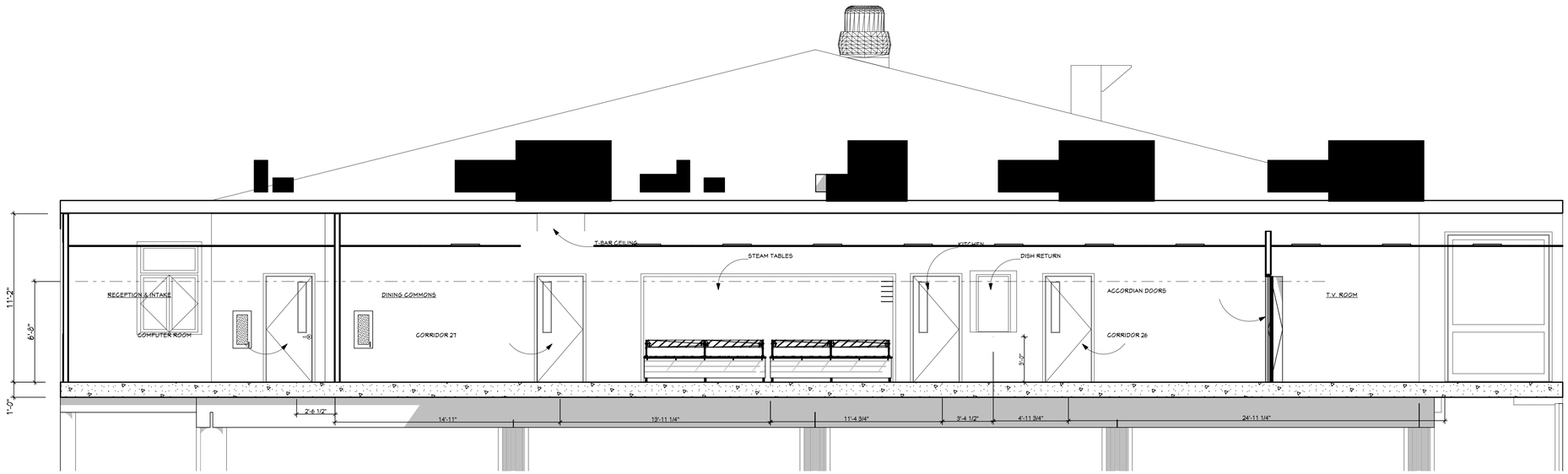
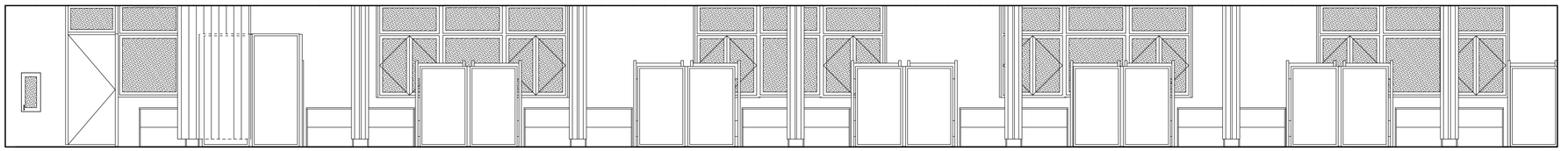
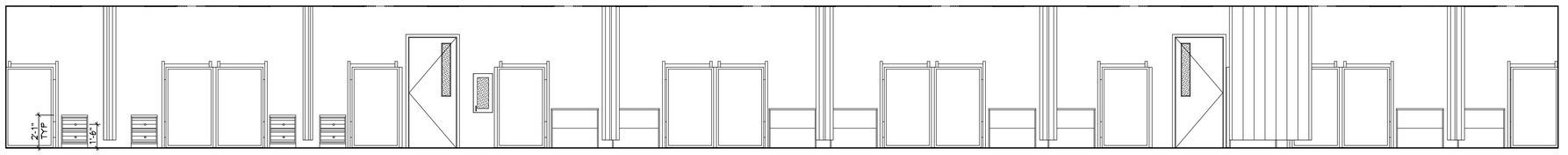


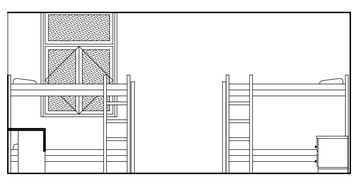
1 Wall 6 ELEVATION
SCALE: 1/4" = 1'-0"



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
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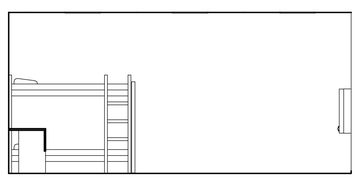

5 MEN - TRANSITIONAL HOUSING 33
SCALE: 1/4" = 1'-0"

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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 ◦

INTERIOR ELEVATIONS

◦ REVISIONS ◦

No.	Date	Notes
1	4-1-2016	Building

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: A-6.3

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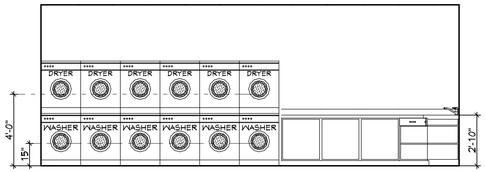
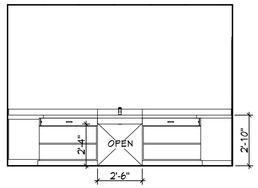


1 LAUNDRY 38
SCALE: 1/4" = 1'-0"



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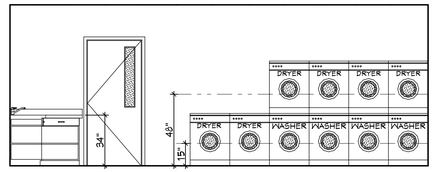
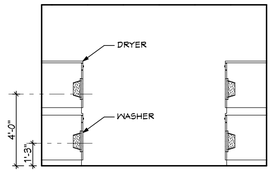
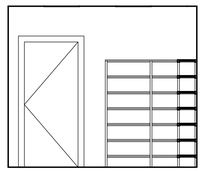
SCALE: 1/4" = 1'-0"



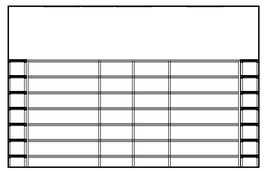
3 LAUNDRY 38
SCALE: 1/4" = 1'-0"



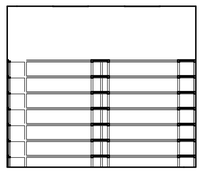
4 LAUNDRY 38
SCALE: 1/4" = 1'-0"



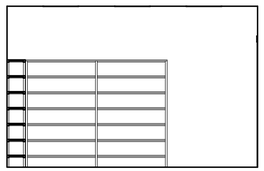
5 LINEN 39
SCALE: 1/4" = 1'-0"



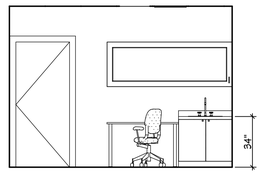
6 LINEN 39
SCALE: 1/4" = 1'-0"



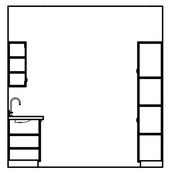
7 LINEN 39
SCALE: 1/4" = 1'-0"



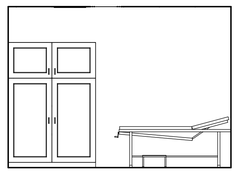
8 LINEN 39
SCALE: 1/4" = 1'-0"



9 EXAM 41
SCALE: 1/4" = 1'-0"



10 EXAM 41
SCALE: 1/4" = 1'-0"



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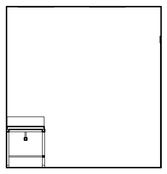
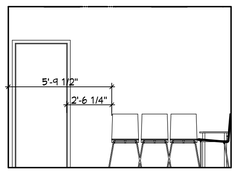
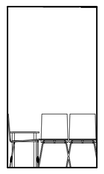
SCALE: 1/4" = 1'-0"



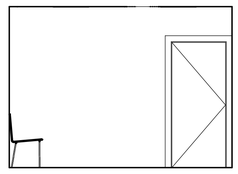
12 EXAM 41
SCALE: 1/4" = 1'-0"



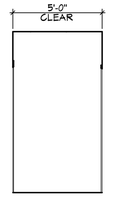
17 WAITING ROOM 40
SCALE: 1/4" = 1'-0"



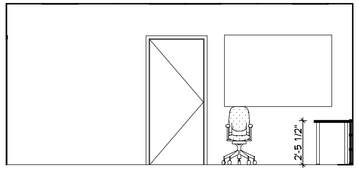
18 WAITING ROOM 40
SCALE: 1/4" = 1'-0"



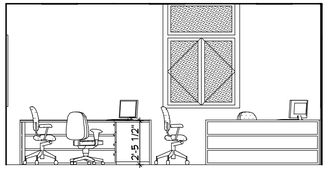
19 WAITING ROOM 40
SCALE: 1/4" = 1'-0"



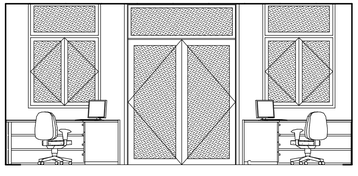
20 WAITING ROOM 40
SCALE: 1/4" = 1'-0"



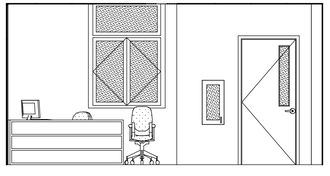
13 RECEPTION & INTAKE 32
SCALE: 1/4" = 1'-0"



14 RECEPTION & INTAKE 32
SCALE: 1/4" = 1'-0"



15 RECEPTION & INTAKE 32
SCALE: 1/4" = 1'-0"



16 RECEPTION & INTAKE 32
SCALE: 1/4" = 1'-0"

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

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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 ◦

INTERIOR ELEVATIONS

◦ REVISIONS ◦

No.	Date	Notes
2		

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: A-6.4

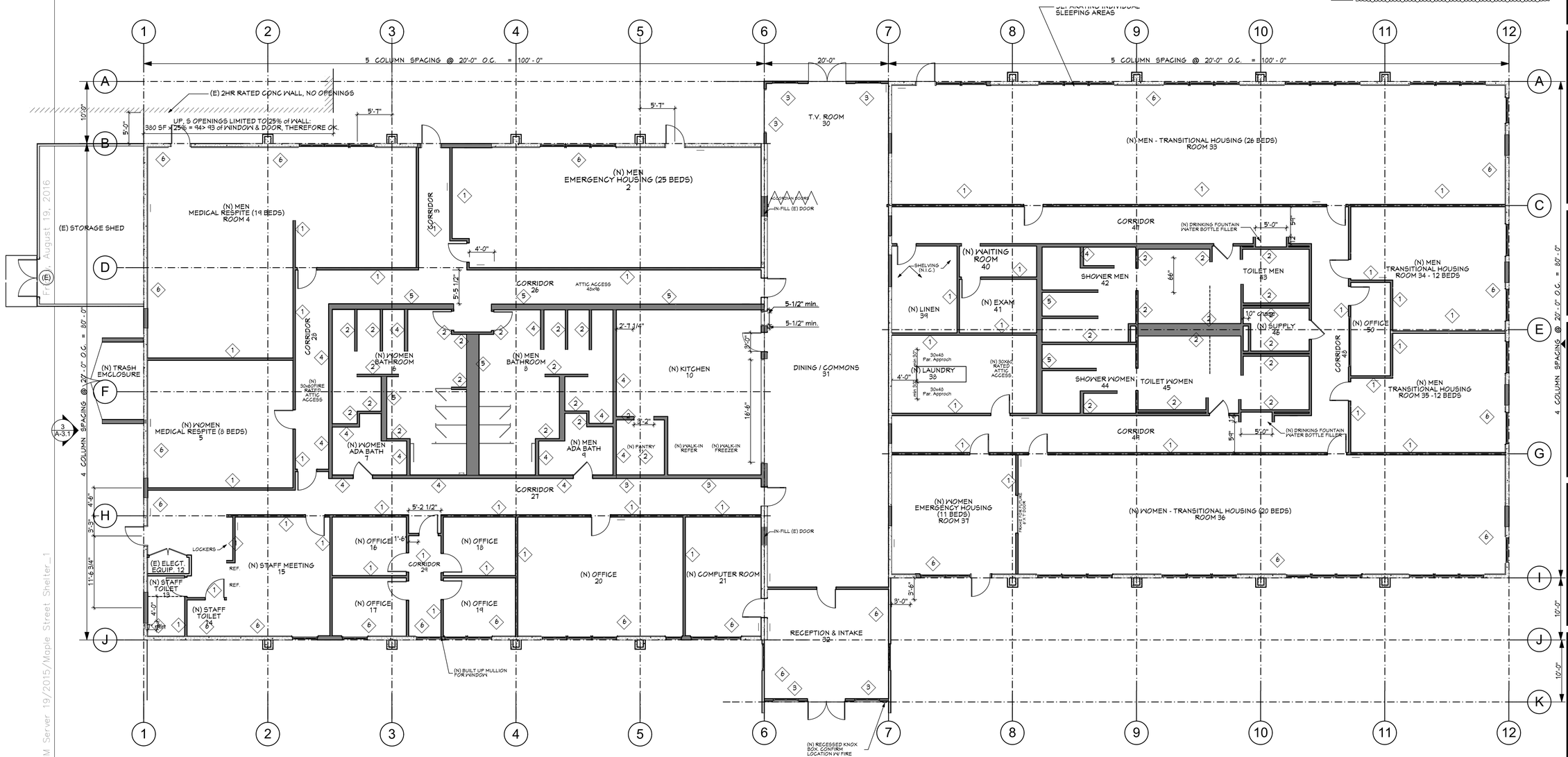
Friday, August 19, 2016 1:21 PM
BIM Server: CJW BIM Server 19 — BIM Server 19/2015/Maple Street Shelter_1

BIM Server: C:\JW BIM Server 19 — BIM Server 19\2015\Maple Street Shelter_1
Fri, August 19, 2016 1:21 PM

WALL SIZES:

1. 3-5/8" Galv. Metal Stud Wall, 43mil 362S162-43 @ 16" O.C.
2. 3-5/8" S.S. Metal Stud Wall, 43 mil
3. 5-1/2" Galv. Metal Stud Wall 550S162-43 @ 16" O.C.
4. 5-1/2" S.S. Metal Stud Wall
5. 3-5/8" x 12" chase wall S.S. Metal Stud Wall
6. 1-1/2" hat channel furring on all (E) exterior conc tilt panels. Provide150M 25-43 at 16" o.c. with 0.145 Hilti shot pins at 16" o.c. staggered.

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



1 Wall size plan 1/8" = 1'-0"

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

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

◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

STUD SIZES

◦ REVISIONS ◦

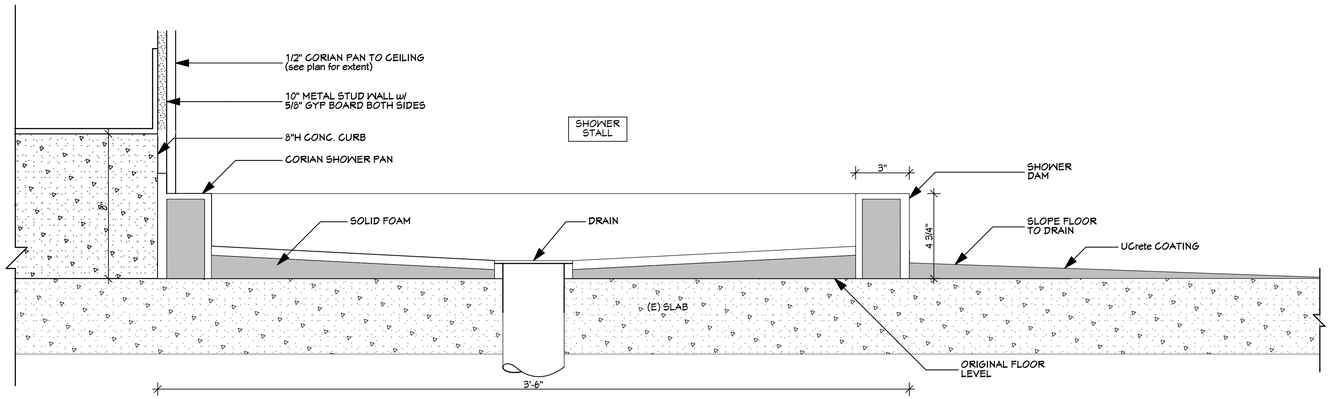
No.	Date	Notes
1	4-1-2016	Building
2	8-15-2016	PC#1/ Add #3

◦ JOB: 2015.2801

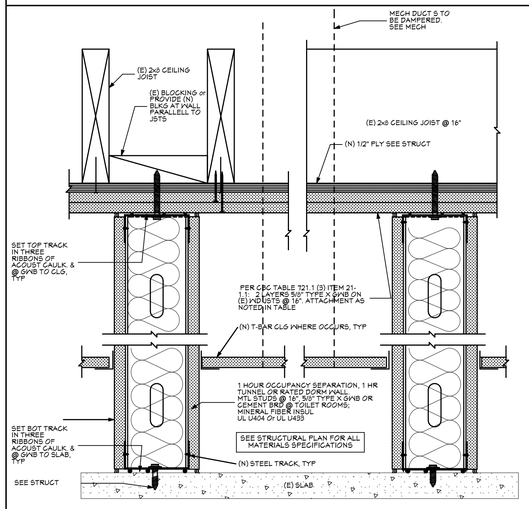
◦ DATE: 6/17/2016

◦ SHEET: A-7.1

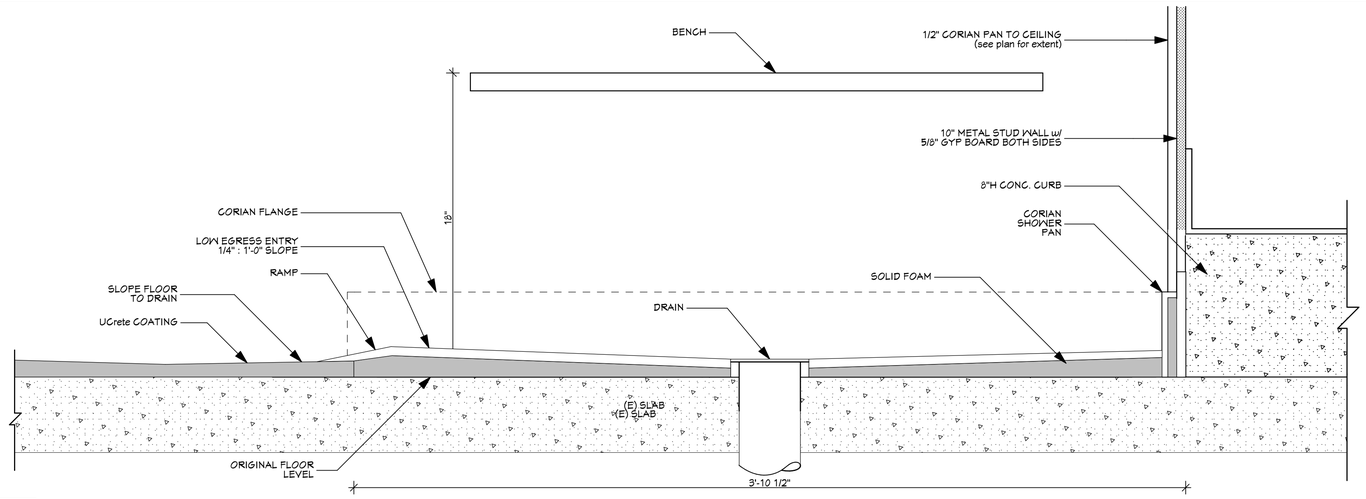
Friday, August 19, 2016 1:21 PM



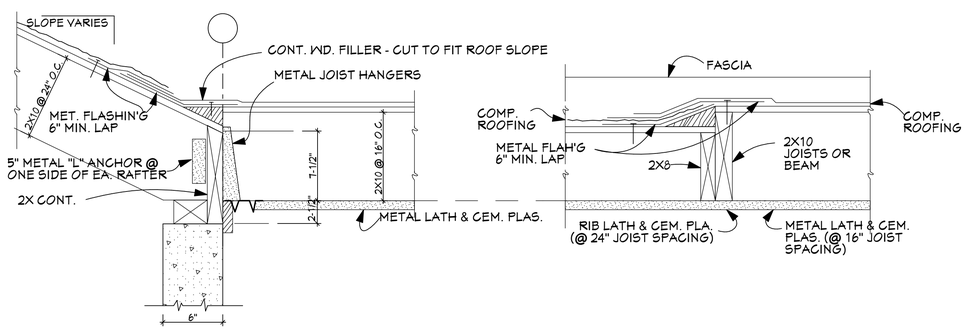
1 BATH 6 WOMEN SHOWER 3" = 1'-0"



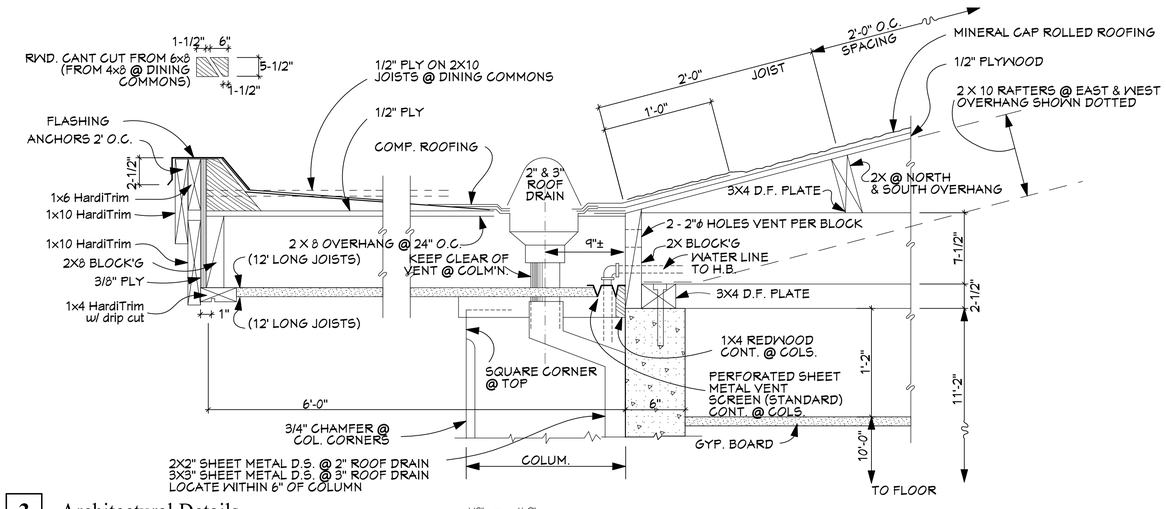
5 1 HR. CORRIDOR & AREA SEP. WALL 3" = 1'-0"



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



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



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

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

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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 ◦

DETAILS

◦ REVISIONS ◦

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

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: A-7.2

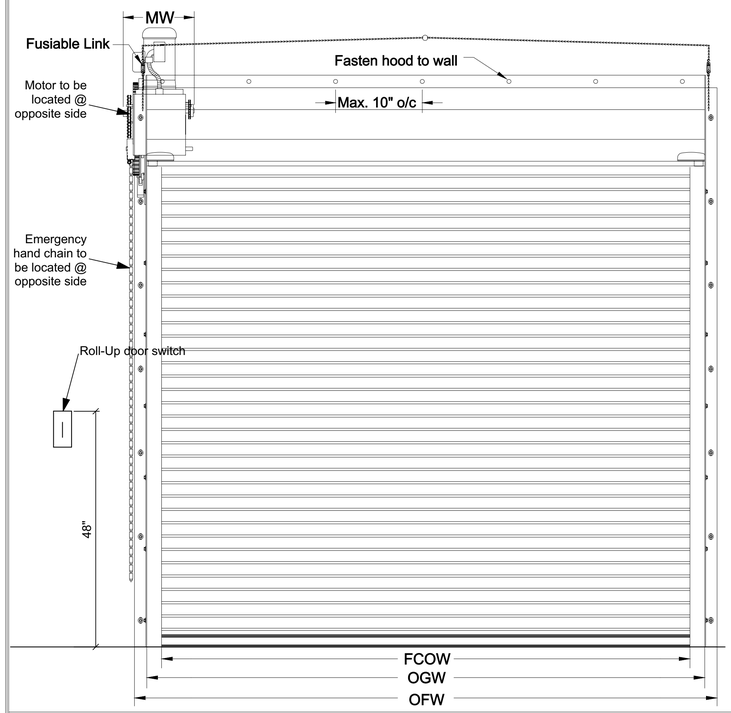
BIM Server: CJW BIM Server 19 — BIM Server 19/2015/Maple Street Shelter_1

PROJECT:	CONTRACT # / P.O. # :	FILE NAME:	DRAWING # :
Maple Street Shelter		WEB GENERATE	6820

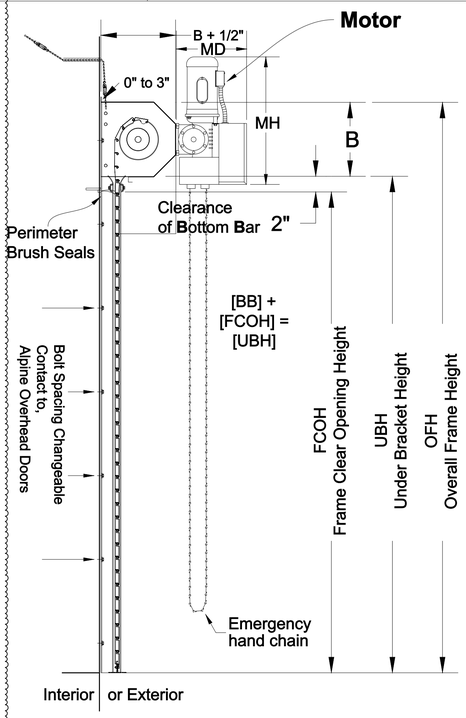
ESTIMATED PRELIMINARY DRAWING SUBJECT TO CHANGE FOR PRODUCTION OR FABRICATION

DRAWING NOT IN SCALE

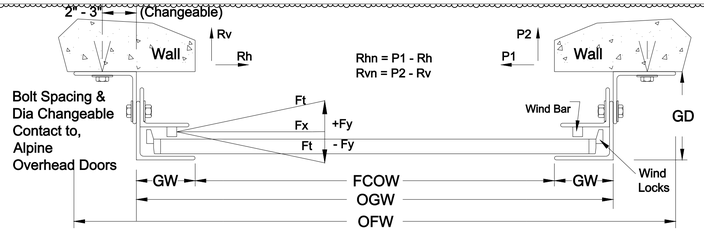
Door is shown right hand drive, left hand is opposite.



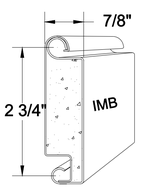
COIL SIDE ELEVATION VIEW INSIDE KITCHEN



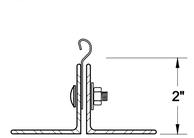
VERTICAL SECTION



GUIDE SECTION



CURTAIN



BOTTOM BAR

PLEASE CHECK APPROPRIATE BOX, SIGN AND RETURN TO ALPINE

☐ APPROVED (O.K. to Fabrication) ☐ RESUBMIT

☐ APPROVED As Noted ☐ DISAPPROVED

COMPANY NAME _____ **TITLE** _____

SIGNATURE _____

PRINT NAME _____ **DATE** _____

Auto Smoke Fire Storm:

1. Alpine Overhead Doors, Inc. will not be responsible or liable for damage, or improper operation, caused by the materials of other trades fastened to any door components.
2. Opening prep, supports, substrates, framing, jambs, lintels and structurally sufficient wall construction are not included by Alpine Overhead Doors, Inc.
3. All exposed ferrous surfaces, except stainless steel, shall receive one coat of rust-inhibitive primer.
4. Operation: Motor, Left Hand Side
5. Locking: None (Alpine Offers, Slide Locks, Cylinder Locks & Pin Locks)
6. Fire rated doors must be installed in strict accordance with NFPA 80.
7. Doors carries a U.L. rated.
8. Door is built in accordance with Protocol 201, 202 & 203. See Notice of Acceptance for applicable location.

Building Note:

1. Jamb, Lintels,Sills or structural elements required to prepare opening are not included by.
2. Opening of sound and suitable construction will be provided by the purchaser or the support of Alpine Overhead Doors, Inc.
3. In construction of new openings, the purchaser will be responsible for the maintenance of certified dimension on approved shop drawings or as guaranteed otherwise.
4. All electrical wiring and other related work in not supply by Alpine.
5. **Wind Load:** Doors are designed for a maximum pressure of [PSI]
6. **Reaction Forces** (Principal Engineer is required to verify that building structure, can support the below listed reaction forces), Maximum Horizontical Force, Px CallMFG
   Maximum Vertical Force, Py CallMFG

MATERIAL

CURTAIN : 22 GA. Stainless Steel
roll formed 7/8" thick IMB slat sections

FINISH : Stainless Steel

GUIDE : Designed using angles consisting of structural steel, Mount face of the wall

FINISH : Stainless Steel

HOOD : 24 GA. Stainless Steel
formed to fit hexagon brackets

FINISH : Stainless Steel

BOTTOM BAR : Two Stainless Steel
Double Angles extending into guides.

FINISH : Stainless Steel

QUA-NTITY	MARK	FRAME CLEAR OPENING		OVERALL GUIDE	UNDER BRACKET	OVERALL FRAME		BRACKET	GUIDE WIDTH	GUIDE DEPTH	Tube Size	DRIVE	OPERATION	MOTOR SPECIFICATIONS		
Q	M	F C O Width	F C O Height	O G Width	U B Height	O F Width	O F Height	B	GW	GD	TS	DR	OP	H-Power	Volt	Phase
1	I	17'-0 "	7'-0 "	17.58	7.334	18'-2 "	8.83	18	6.5	4.94	NA	Left	Motor	0.5		
		5181.6	2133.6	5359.4	2235.4	5359.4	2692.6	457.2	165.1	125.41	NA			Alpine Engineer can change, Motor Specification as per Door Size.		

Alpine Overhead Doors,
Auto style doors do not operate with Manual Push Up Operation.

AUTO FIRE STORM WINDSTORM RESISTANT FIRE DOORS IMB

SALES REP.: | BUSINESS: CJW Architecture | CUSTOMER NAME: Clay Baker | CHECK: | DRAWN BY: Web Generate | DATE & TIME: 6/18/2016 5:11:20 PM

Alpine
OVERHEAD DOORS, INC.
8 HULSE RD. E. SETAUKET, N.Y. 11733
TEL: (631)473-9300 FAX: (631)642-0800
© COPYRIGHT November 2002

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

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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 ◦

KITCHEN ROLLUP DOOR DETAILS

◦ REVISIONS ◦

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

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: A-7.3

Friday, August 19, 2016 1:21 PM
BIM Server: CJW BIM Server 19 — BIM Server 19/2015/Maple Street Shelter_1

Friday, August 19, 2016 1:22 PM

Fire Counter-Shutter

1 1/4" Baby Flat Slat

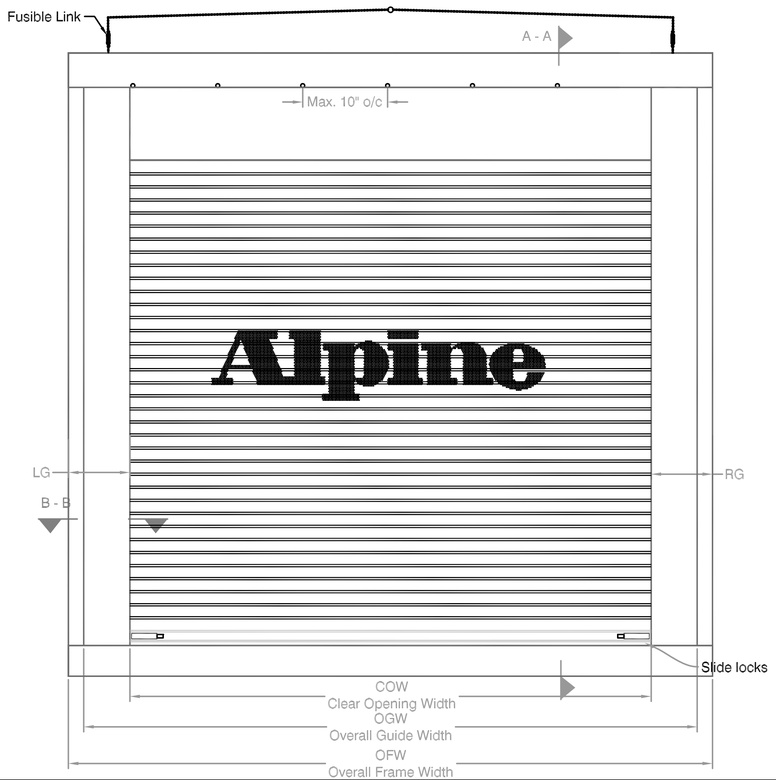
ISO 9001 : 2000 REGISTERED FIRM

GREEN

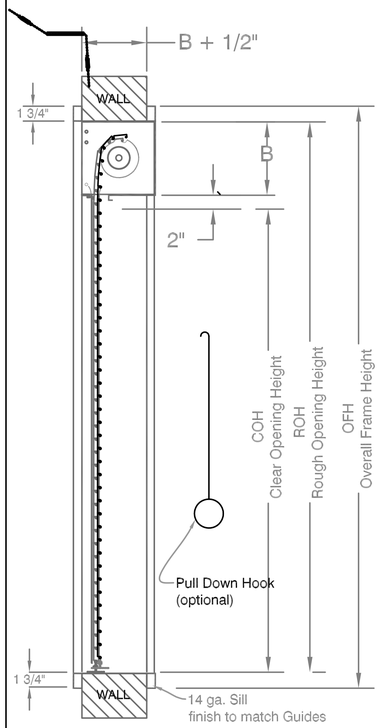
INTEGRAL FRAME FIRE SHUT
Split-FRAME
FRAMED ROLLING COUNTER SHUTTERS

Manual Push-up Operated
Between Jamb Mounted

Page#: Page 1

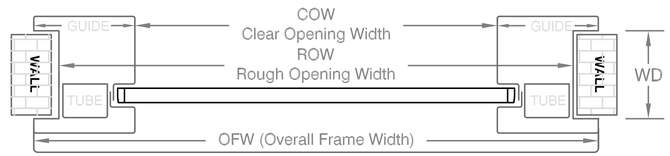


COIL SIDE ELEVATION

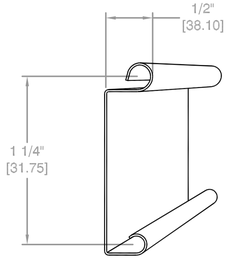


VERTICAL SECTION A - A

LG - Left Guide
RG - Right Guide
B - Bracket
GW - Guide Width
GD - Guide Depth



GUIDE SECTION B - B



1 1/4" baby flat slat

CURTAIN DETAIL

Notes:
1. See page 2 for more options.
2. All metric conversions of dimensions are shown in brackets [ ].

SALES REP:
CUSTOMER:
JOB NAME:
NUMBER:

Manufactured by:
Alpine® OVERHEAD DOORS, INC.
8 HULSE ROAD EAST SETAUKET, N.Y. 11733
TEL: (631)473-9300 FAX: (631)642-0800
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CJ W ARCHITECTURE
130 Portola Road, suite A
Portola Valley, CA 94028
(650) 851-9335 / (Fax) 851-9337

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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 ◦

KITCHEN DISH RETURN DOOR

◦ REVISIONS ◦

No.	Date	Notes
1	6-17-2016	Building Submittal

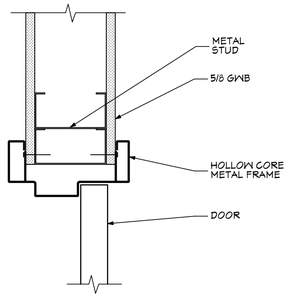
◦ JOB: 2015.2801

◦ DATE: 6/17/2016

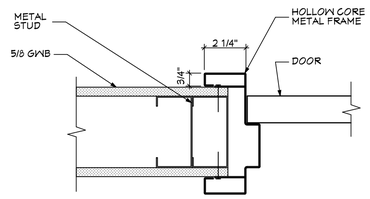
◦ SHEET: A-7.4

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

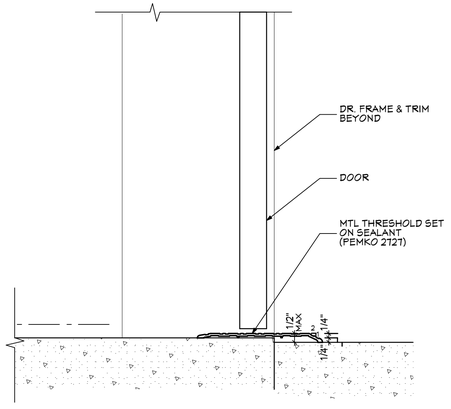
1:22 PM
Friday, August 19, 2016
BIM Server: CJW BIM Server 19 — BIM Server 19/2015/Maple Street Shelter_1



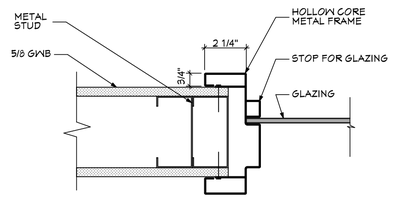
10 Interior Door Header 3" = 1'-0"



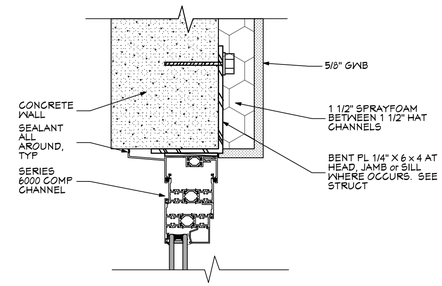
11 Interior Door Jamb 3" = 1'-0"



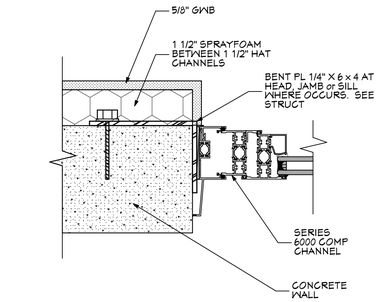
9 Exterior Door Threshold 3" = 1'-0"



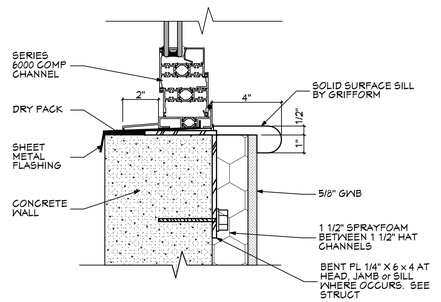
5 Interior Window Jamb 3" = 1'-0"



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



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



2

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

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 ◦

WINDOW & DOOR DETAILS

◦ REVISIONS ◦

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

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: A-7.5

Friday, August 19, 2016 1:22 PM
BIM Server: CJW BIM Server 19 – BIM Server 19/2015/Maple Street Shelter_1

TYPICAL SUSPENDED CEILING NOTES:

The following notes will be acceptable in plans and specifications for ceiling systems whose total weight including conditioning grilles and light fixtures does not exceed four (4) systems and those supporting lateral loads from partitions will require special design details. 12 ga. (min.) hanger wires may be used for up to and including 4' x 4' grid spacing along main runners.

1.) Provide 12 ga. hanger wires at the ends of all main and cross runners within 8" from the support or within 1/4 of the length of the end tee, which ever is least, for the perimeter of the ceiling area. End connections for runners which are designed and detailed to resist the applied horizontal forces may be used in lieu of the 12 ga. hanger wires subject to the architect review and approval.

2.) Provide trapeze or other supplementary support members at obstructions to main hangers, struts or braces as required at all ceiling breaks, soffits or discontinuous areas. Hanger wires that are more than 1 in 6 out of plumb are to have counter-sloping wires.

3.) Ceiling grid members may be attached to no more than 2 adjacent walls. Ceiling grid members should be at least 1/2 inch free of other walls. If walls run diagonally to ceiling grid system runners, one end of main and cross runners should be free and a minimum of 1/2 inch clear of wall.

4.) At the perimeter of the ceiling area where main or cross runners are not connected to the adjacent wall, provide interconnection between the runners at the free ends to prevent lateral spreading. A metal strut or a 16 ga. wire with positive mechanical connection to the runner may be used. Where the perpendicular distance from the wall to the first parallel runner is 12" or less, this interlock is not required.

5.) Provide sets of four 12 ga. splayed bracing wires oriented 90° from each other at the following spacing:
a.) Place sets of bracing wires at a spacing not more than 12' x 12" on center.
b.) Provide bracing wires at locations not more than 6' from each perimeter wall and at the edge of vertical ceiling offsets. The slope of bracing wires should not exceed 45° from the plane of the ceiling and should be taut without causing the ceiling to lift. Splices in bracing wires are not to be permitted.

6.) Fasten hanger wires with not less than 3 tight turns. Fasten bracing wires with 4 tight turns. Make all tight turns within a distance of 1-1/2 inches. Hanger or bracing wire anchors to the structure should be installed in such a manner that the direction of the wires align as closely as possible with the direction of the forces acting on the wire. Note: Wire turns made by machine where both strands have been deformed or bent in wrapping can waive the 1-1/2" requirement, but the number of turns should be maintained and be as tight as possible.

7.) Separate all ceiling hanging and bracing wires at least 6" from all unbraced ducts, pipes, conduit, etc. It is acceptable to attached lightweight items, such as a single electric conduit not exceeding 3/4" nominal diameter to hanger wires using connectors acceptable to the architect.

8.) When drilled-in concrete anchors are used in reinforced concrete for hanger wires, 1 out of 10 must be field tested for 440 pounds in tension. Shot-in anchors in concrete are not permitted. Report anchor failures to architect for further remedial instructions. Note: Drilled-in anchors require special approval when used in prestressed concrete.

9.) Attach all light fixtures to the ceiling grid runers to resist a horizonal force equal to the weight of the fixtures.

10.) Flush or recessed light fixtures and air terminals or services weighing less than 56 pounds may be supported directly on the runners of the heavy duty grid system but, in addition, they must have a minimum of two 12 ga. slack safety wires attached to the fixture at diagonal corners and anchored to the structure above. All 4 ft. x 4 ft. light fixures must have slack safety wires at each of the 4 corners.

11.) All flush or recessed light fixtures and air terminals or services weighing 56 ponds or more must be independently supported by not less than 4 taut 12 ga. wires each attached to the fixture and to the structure above regardless of the type of ceiling grid system used. The 4 taut 12 ga. wires including their attachment to the structure above must be capable of supporting 4 times the weight of the unit.

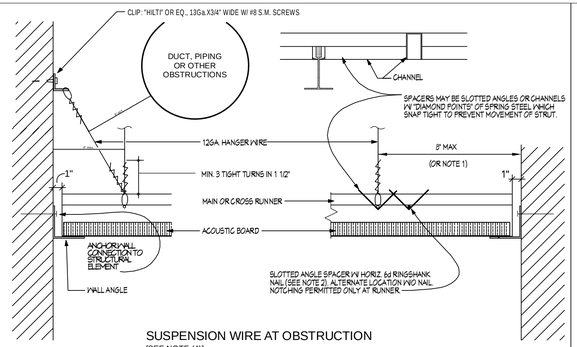
12.) All fixtures and air terminals or services supported on intermediate duty grid systems must be independently supported by not less than 4 taut 12 ga. wires each attached to the fixture or terminal and to the structure above.

13.) Support surface mounted light fixtures by at least two positive devices which surround the ceiling runner and which are each supported from the structure above by a 12 ga. wire. Spring clips or clamps that connect only to the runner are not acceptable.

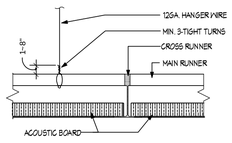
14.) Provide additional supports when light fixtures are 8 feet or longer.

15.) Where occurs, support pendant mounted light fixtures directly from the structure above with hanger wires or cables passing through each pendant hanger and capable of supporting 4 times the weight of the fixture.

6 Typical Suspended Ceiing Notes 1 1/2"= 1'-0"



SUSPENSION WIRE AT OBSTRUCTION
[SEE NOTE (4)]



ACCEPTABLE HANGER WIRE CONNECTION TO GRID

NOTES:

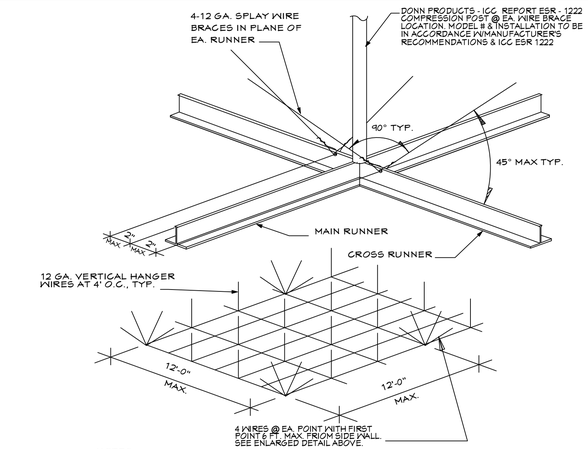
(1) 1/4 OF THE LENGTH OF THE END RUNNER WHICHEVER IS LESS.

(2) NAILS AT ENDS OF HORIZONTAL STRUTS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTERLINE OF SPAN OF STRUT.

(3) CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 1/2 INCH FREE OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE AND A MINIMUM OF 1/2 INCH CLEAR OF WALL.

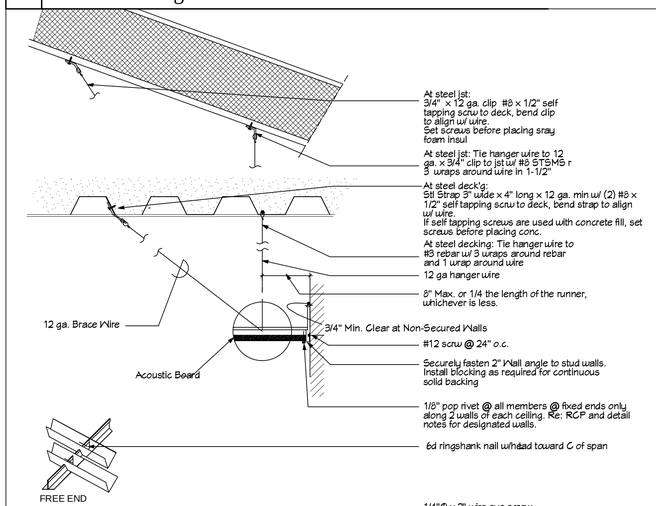
(4) AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16GA WIRE WITH A POSITIVE MECHANICAL CONECTION TO THE RUNNER MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS 12" OR LESS, THIS INTERLOCK IS NOT REQUIRED.

4 Suspension Wire at Obstruction 1 1/2"= 1'-0"

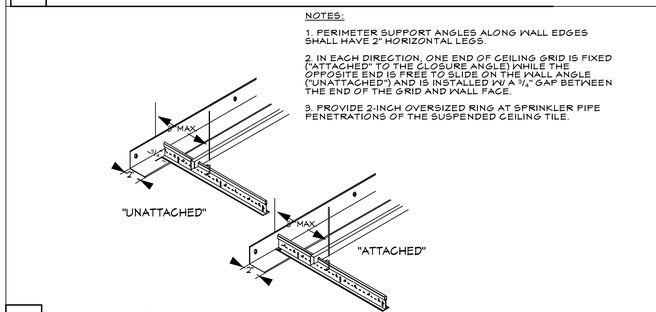


NOTES:
LIGHT FIXTURE SUPPORT SHALL BE INDEPENDENT FROM CEILING SUPPORT SYSTEM.
HOLD-DOWN CLIPS SHALL BE REQ'D FOR LAY-IN TILES WEIGHING LESS THAN 1 LB.

1 T-Bar Bracing Details 3" = 1'-0"



2 T-Bar Wire to Structure 1" = 1'-0"



3 T-Bar Wall Angle Attached / Unattached Detail 1 1/2"= 1'-0"

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 ◦

CEILING DETAIL

◦ REVISIONS ◦

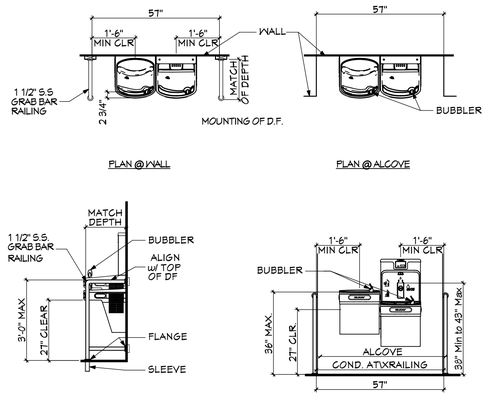
No.	Date	Notes
1	6-17-2016	Building Submittal

◦ JOB: 2015.2801

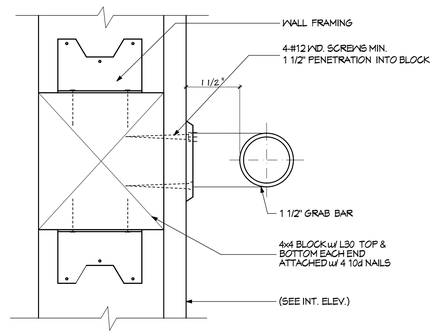
◦ DATE: 6/17/2016

◦ SHEET: A-7.6

Friday, August 19, 2016 1:22 PM



10 DRINKING FOUNTAIN DETAILS 3/8" = 1'-0"



7 GRAB BAR DETAIL 6" = 1'-0"

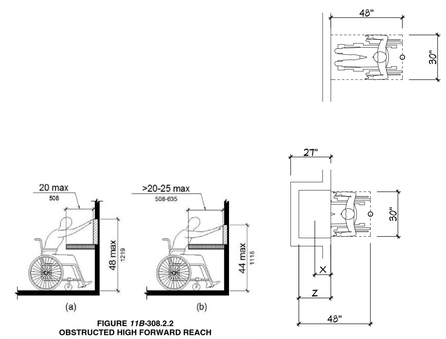
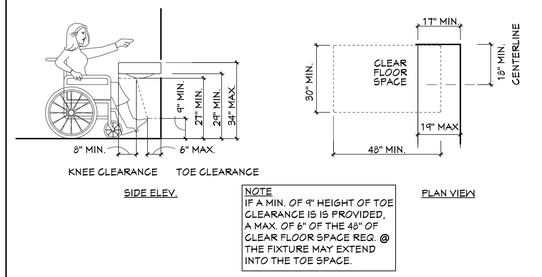


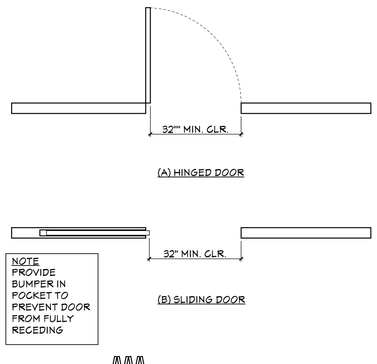
FIGURE 11B-308.2.2
OBSTRUCTED HIGH FORWARD REACH

4 ACCESS 4 1/4" = 1'-0"



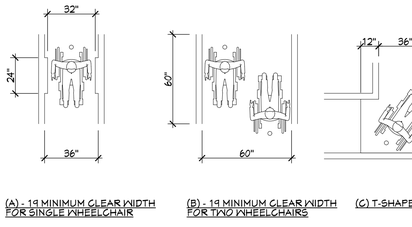
NOTE
IF A MIN. OF 9" HEIGHT OF TOE CLEARANCE IS IS PROVIDED, A MAX. OF 6" OF THE 48" OF CLEAR FLOOR SPACE REQ. @ THE FIXTURE MAY EXTEND INTO THE TOE SPACE.

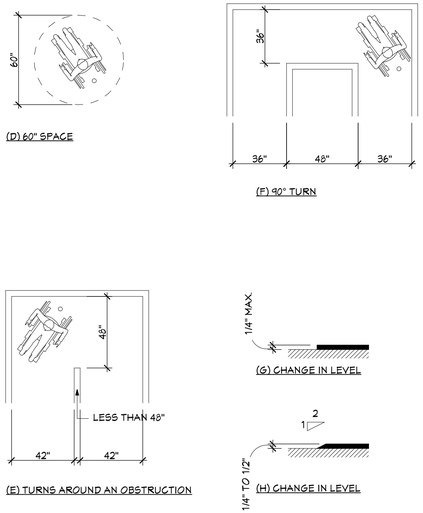
1 LAVATORYKNEE CLEARANCE 3/8" = 1'-0"



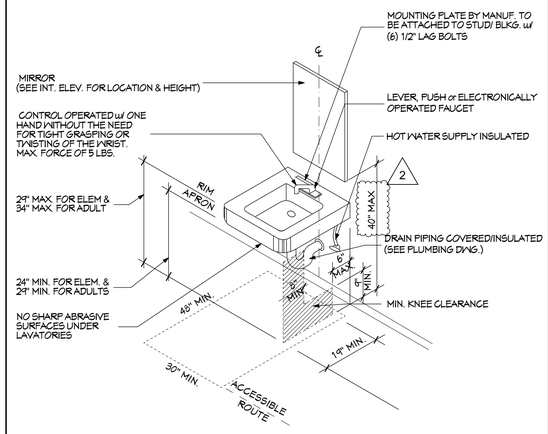
NOTE
PROVIDE BUMPER IN POCKET TO PREVENT DOOR FROM FULLY RECEDING

8 ACCESSIBILITY OPENINGS 1/2" = 1'-0"





6 ACCESS 6 1/4" = 1'-0"



2 LAVATORYCLEARANCE DETAIL 1/4" = 1'-0"

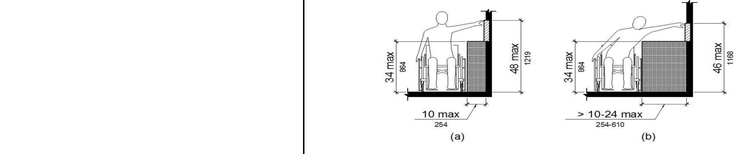
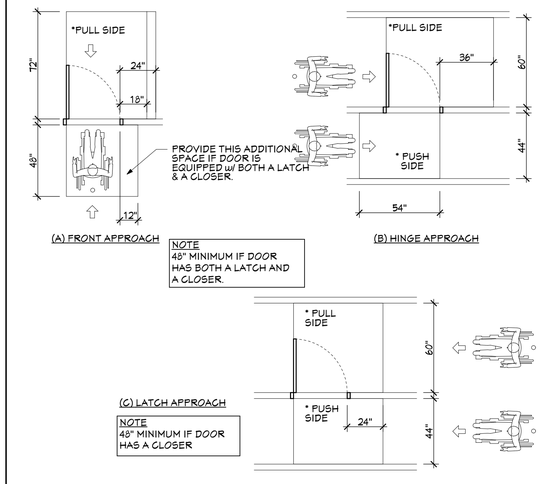


FIGURE 11B-308.3.2
OBSTRUCTED HIGH SIDE REACH

9 ACCESSIBILITY 1/4" = 1'-0"



NOTE
48" MINIMUM IF DOOR HAS BOTH A LATCH AND A CLOSER.

NOTE
48" MINIMUM IF DOOR HAS A CLOSER

3 ACCESS 3 1/4" = 1'-0"

CJ W ARCHITECTURE
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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 ◦

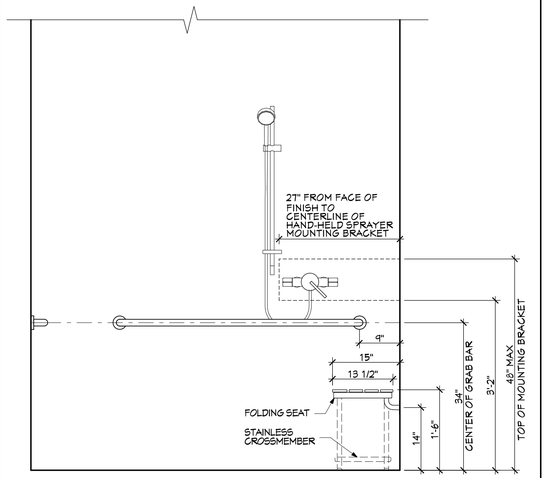
No.	Date	Notes
1	6-17-2016	Building Submittal
2	8-15-2016	Plan Check Comments

◦ JOB: 2015.2801

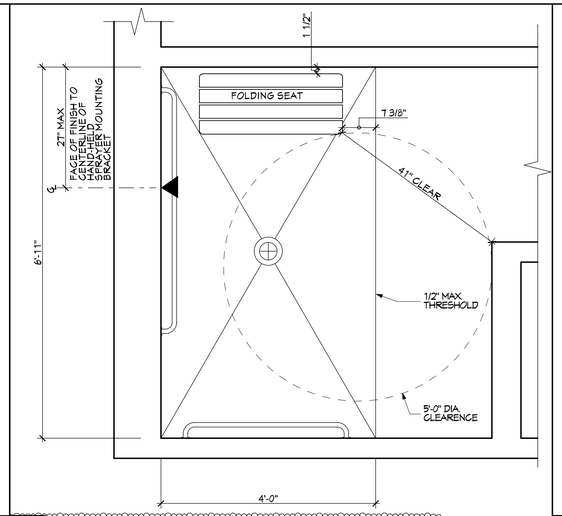
◦ DATE: 6/17/2016

◦ SHEET: A-7.7

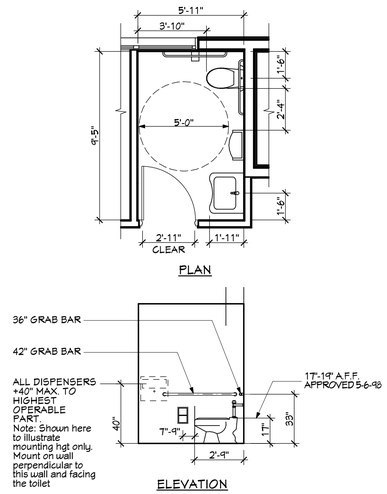
BIM Server: CJW BIM Server 19 — BIM Server 19/2015/Maple Street Shelter_1



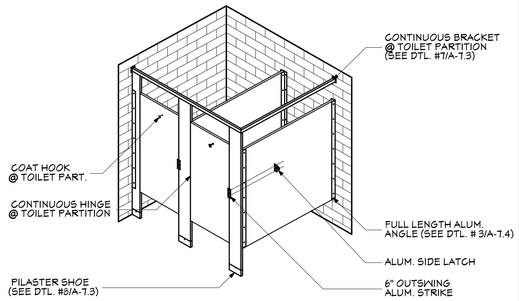
10 ACCESSIBLE SHOWER STALL ELEV ⚠2 3/4" = 1'-0"



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

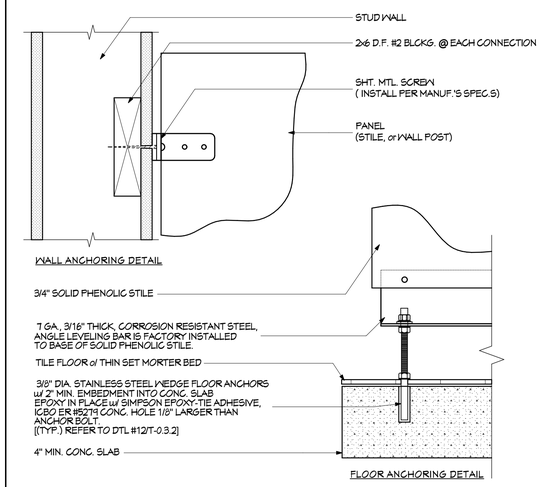


4 ADA TOILET TYP. 1/4" = 1'-0"

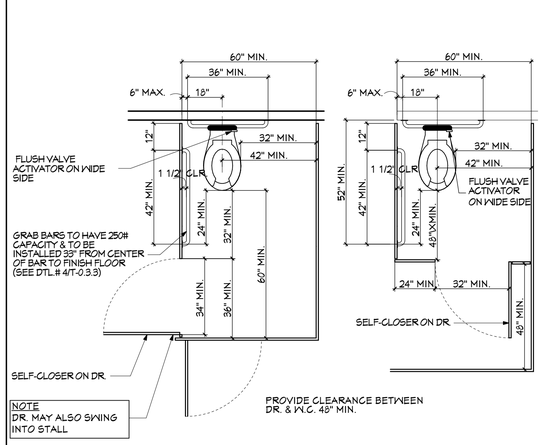


1 TYP. TOILET PARITION 1/4" = 1'-0"

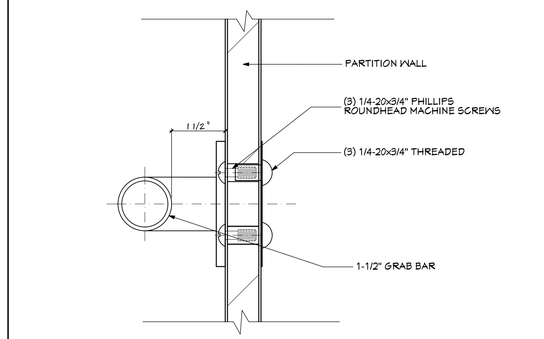
11 MIRROR TILE WAINSCOAT DETAIL 3" = 1'-0"



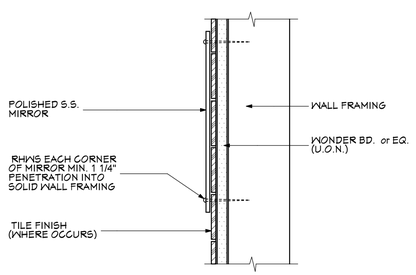
8 FLOOR & WALL ANCHORING DETAILS 3" = 1'-0"



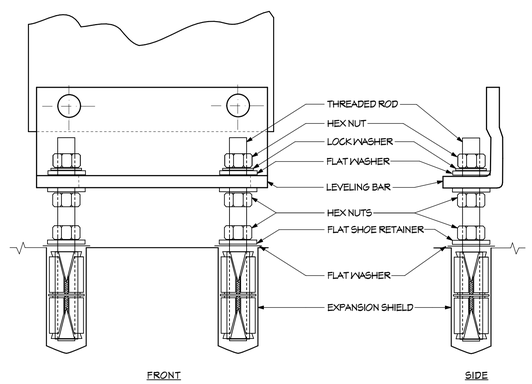
5 ACCESSIBLE TOILET STALLS 3/8" = 1'-0"



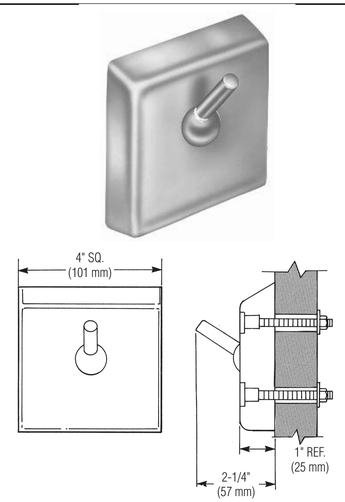
2 TOILET PARTITION GRAB BAR DETAIL 6" = 1'-0"



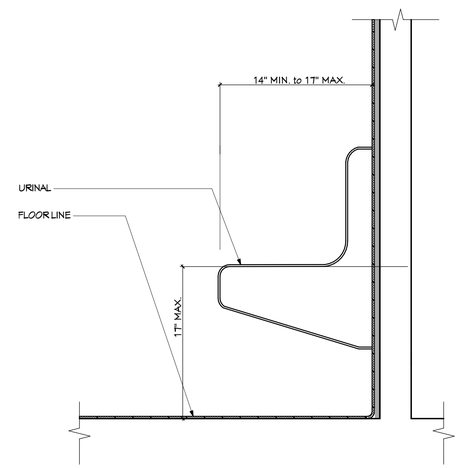
12 TYP. MIRROR DETAIL 3" = 1'-0"



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

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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 DETAILS

◦ REVISIONS ◦

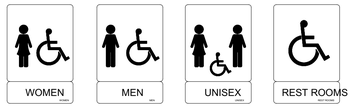
No.	Date	Notes
1	6-17-2016	Building Submittal
⚠2	8-15-2016	Plan Check Comments

◦ JOB: 2015.2801

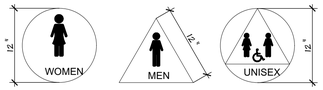
◦ DATE: 6/17/2016

◦ SHEET: A-7.8

Friday, August 19, 2016 1:22 PM
BIM Server: CJW BIM Server 19 — BIM Server 19/2015/Maple Street Shelter_1



WALL - SIGNAGE (TYP.)



DOOR MOUNTED SIGNAGE (TYP.)

A) INTERNATIONAL SYMBOL OF ACCESSIBILITY: SECTION 11B-703.7.2 AND SECTIONS AS FOLLOWS
   1) DESIGN: SECTION 11B-703.7.2 AND 11B-703.7.2.1
   2) COLOR OF SYMBOL: SECTION 11B-703.7.2

B) BRAILLE SYMBOLS: SECTION 11B-703.3

C) PROPORTION OF LETTERS AND NUMBERS: SECTION 11B-703

D) CHARACTER HEIGHT: SECTION 11B-703.2.5

E) CONTRAST AND FINISH OF SYMBOLS: SECTION 11B-703.5

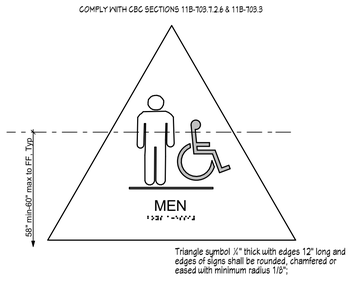
F) RAISED CHARACTERS AND PICTORIAL SYMBOL SIGNS: SECTION 11B-703.2/11B-703.6
   1) LETTER TYPE: SECTION 11B-703.2.3
   2) SYMBOL SIZE: SECTION 11B-703.7
   3) PICTORIAL SYMBOL SIGNS (PICTOGRAMS NONGEOMETRIC): SECTION 11B-703.6

G) INFORMATION POSTED: SECTION 11B-216.8

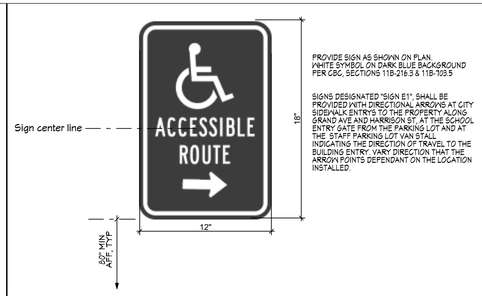
H) MOUNTING LOCATION AND HEIGHT (WHERE PERMANENT IDENTIFICATION PROVIDED OR WHERE SIGNAGE IS REQUIRED FOR ROOMS AND SPACES): SECTION 11B-703.4

I) DOORWAYS LEADING TO MEN'S AND WOMEN'S SANITARY FACILITIES: PROVIDE SIGNS THAT COMPLY WITH APPLICABLE REQUIREMENTS OF SECTIONS 11B-703.7.2.6 & 11B-703.3

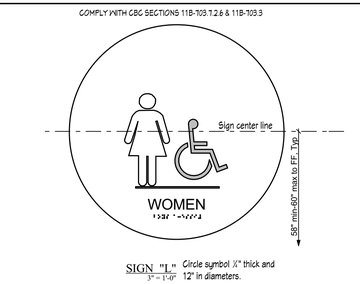
12 I.D. SYMBOLS B 1/4" = 1'-0"



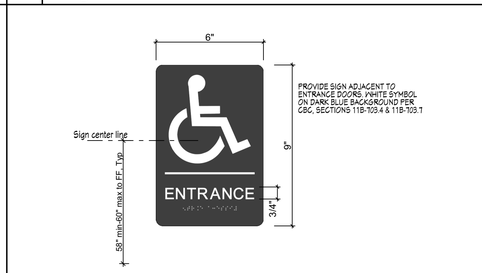
9 Sign J - Mens Bathroom 3" = 1'-0"



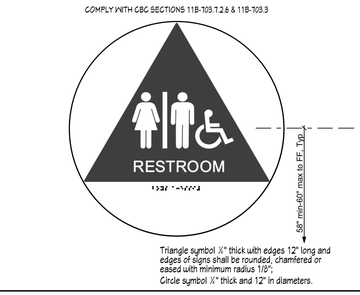
4 Sign D - Accessibile Route 3" = 1'-0"



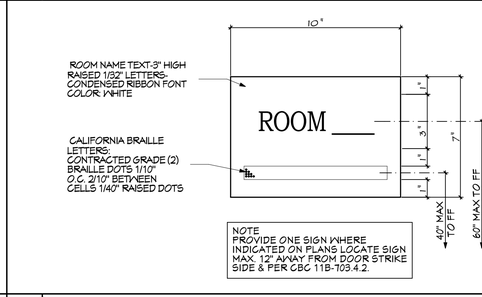
10 Sign K - Womens Bathroom 3" = 1'-0"



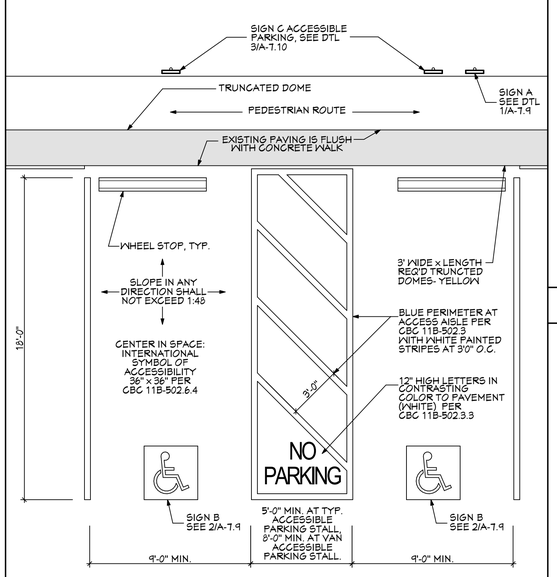
5 Sign E - ISA Decal at Bldg Entry 3" = 1'-0"



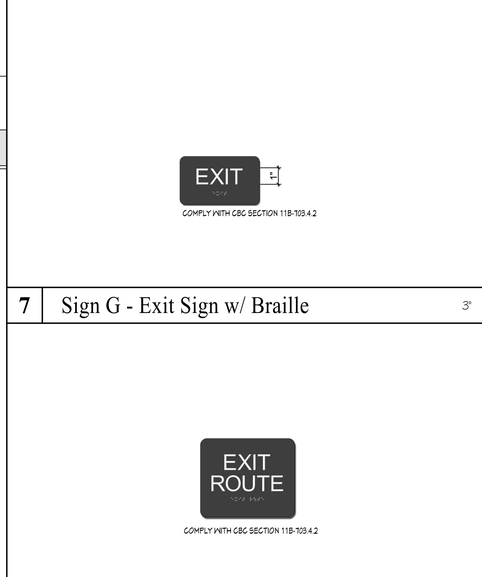
11 Sign L - Unisex Bathroom 3" = 1'-0"



6 Sign F - Typ. Room Name 3" = 1'-0"

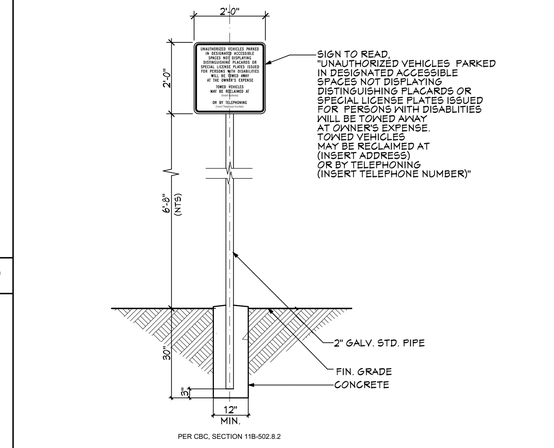


13 Accessible Parking Stall Typ. 1/4" = 1'-0"

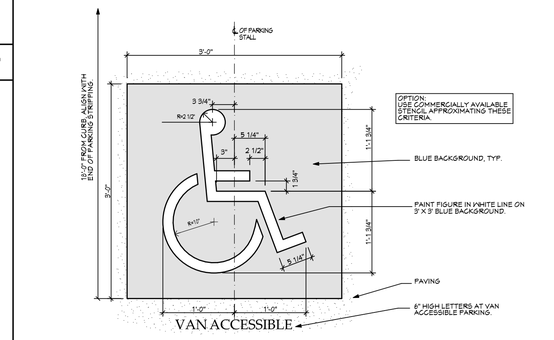


7 Sign G - Exit Sign w/ Braille 3" = 1'-0"

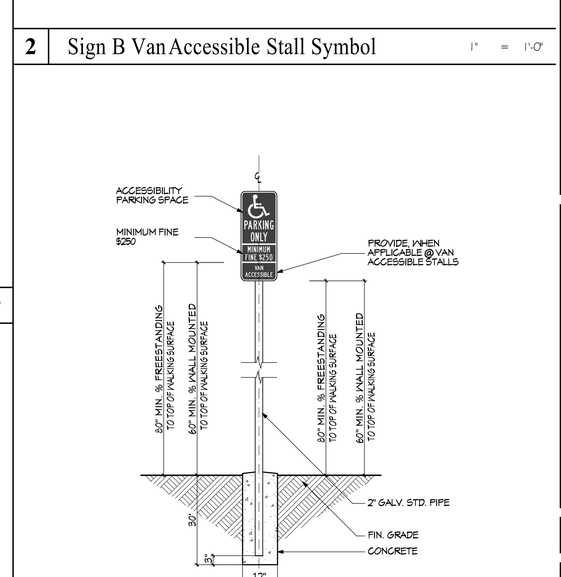
8 Sign H - Exit Route 3" = 1'-0"



1 Sign A - Unauthorized Vehicle Signage Detail 1/2" = 1'-0"



2 Sign B Van Accessible Stall Symbol 1" = 1'-0"



3 SIGN C ACCESSIBLE PARKING 1/2" = 1'-0"

CJ W ARCHITECTURE
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PROJECT

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

SHEET TITLE

ADA SIGNAGE DETAILS

REVISIONS

No.	Date	Notes
1	6-17-2016	Building Submittal
2	8-15-2016	Plan Check Comments

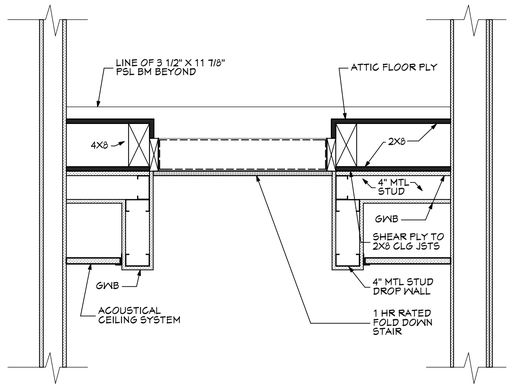
JOB: 2015.2801

DATE: 6/17/2016

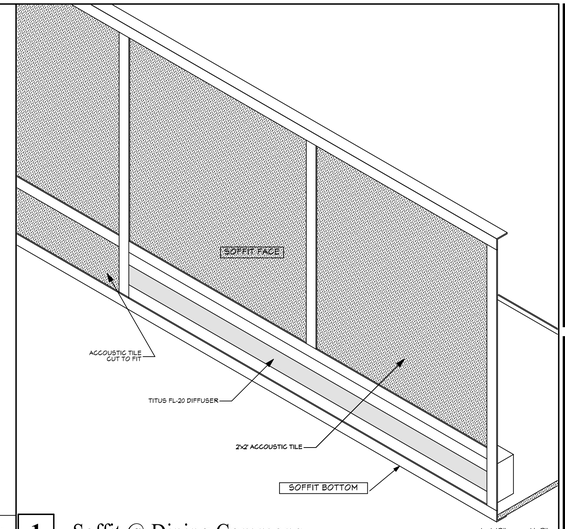
SHEET: A-7.9 2

Friday, August 19, 2016 1:22 PM
BIM Server: CJW BIM Server 19 – BIM Server 19/2015/Maple Street Shelter_1

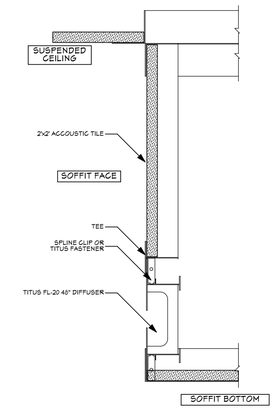
Friday, August 19, 2016 1:22 PM



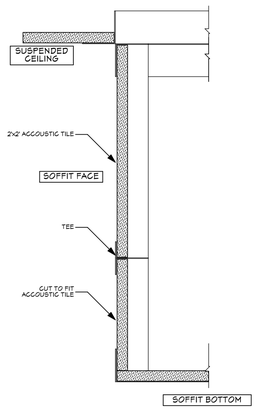
4 Attic Ladder Well 1" = 1'-0"



1 Soffit @ Dining Commons 1 1/2"= 1'-0"



2 Soffit Section @ Dining Commons 1 1/2"= 1'-0"



3 Soffit Section @ Dining Commons 1 1/2"= 1'-0"

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 ◦

ARCHITECTURAL DETAILS

◦ REVISIONS ◦

No.	Date	Notes

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: A-7.10

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

Friday, August 19, 2016 1:22 PM

(E) 2HR RATED CONC WALL, NO OPENINGS

OPENINGS LIMITED TO 25% of WALL:
380 SF > 95 SF > 43 of WINDOW & DOOR, THEREFORE OK.

(E) STORAGE SHED

(E)

(N) MEN
MEDICAL RESPITE (19 BEDS)
ROOM 4

CORRIDOR
3

(N) MEN
EMERGENCY HOUSING (25 BEDS)
2

T.V. ROOM
30

(N) PARTITIONS
SEPARATING INDIVIDUAL
SLEEPING AREAS

(N) MEN - TRANSITIONAL HOUSING (26 BEDS)
ROOM 33

CORRIDOR
26

ATTIC ACCESS
45x48

CORRIDOR
20

(N) TRASH
ENCLOSURE

(N) WOMEN
MEDICAL RESPITE (6 BEDS)
5

(N) WOMEN
BATHROOM
6

(N) MEN
BATHROOM
8

(N) 30x60 FIRE RATED ATTIC ACCESS

(N) KITCHEN
10

DINING / COMMONS
31

(N) WOMEN
ADA BATH
7

(N) MEN
ADA BATH
9

68 S.F.

(N) PANTRY
11

(N) WALK-IN
REFER

(N) WALK-IN
FREEZER

CORRIDOR
21

(N) WOMEN
EMERGENCY HOUSING
(11 BEDS)
ROOM 37

(N) WOMEN - TRANSITIONAL HOUSING (20 BEDS)
ROOM 36

CORRIDOR
47

(N) DRINKING FOUNTAIN
WATER BOTTLE FILLER

(N) WAITING
ROOM
40

SHOWER MEN
42

TOILET MEN
43

(N) LINEN
39

(N) EXAM
41

(N) LAUNDRY
38

SHOWER WOMEN
44

TOILET WOMEN
45

(N) SUPPLY
46

(N) OFFICE
50

CORRIDOR
49

(N) MEN
TRANSITIONAL HOUSING
ROOM 34 - 12 BEDS

(N) MEN
TRANSITIONAL HOUSING
ROOM 35 - 12 BEDS

CORRIDOR
44

(E) ELECT.
EQUIP. 12

LOCKERS

(N) STAFF MEETING
15

(N) STAFF
TOILET
13

(N) STAFF
TOILET
14

(N) OFFICE
16

(N) OFFICE
18

(N) OFFICE
17

(N) OFFICE
19

(N) OFFICE
20

(N) COMPUTER ROOM
21

RECEPTION & INTAKE
32

(N) BUILT UP MULLION
FOR WINDOW

(N) RECESSED KNOX
BOX. CONFIRM
LOCATION W/ FIRE

SIGN "C" on
A (N) POLE

SIGN "D" on
A (N) POLE

SIGN "C" on (N)
POLE

SIGN "C" on
A (N) POLE

SIGN "A" on
A (N) POLE

1 ADA Door Clearances 1/8" = 1'-0"

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 ◦

ADA DOOR
CLEARANCES

◦ REVISIONS ◦

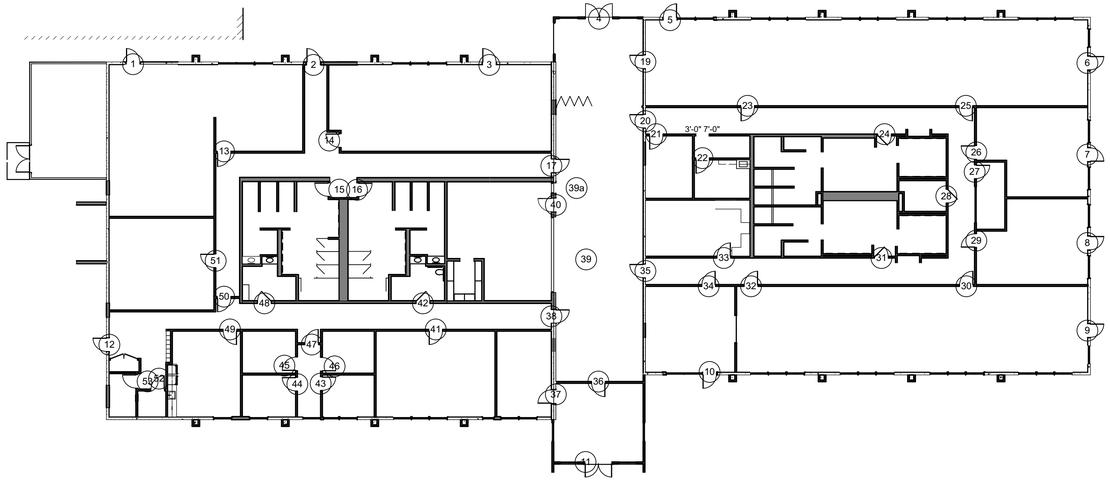
No.	Date	Notes

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: A-7.11

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

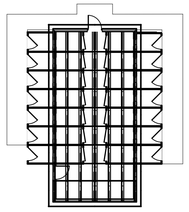


2 Door/Wdw Reference Plan

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	
2	A	3'	7'	A	HM	HM				-	R	
3	A	3'	7'	A	HM	HM				-	R	
4	B	6'	7'	B	HM	HM				-	R	
5	A	3'	7'	A	HM	HM				-	R	
6	A	3'	7'	A	HM	HM				-	R	
7	A	3'	7'	A	HM	HM				-	R	
8	A	3'	7'	A	HM	HM				-	R	
9	A	3'	7'	A	HM	HM				-	R	
10	A	3'	7'		HM	HM					R	
11	B	6'	7'	B	HM	HM				-	L	
12	A	3'	7'	A	HM	HM				-	L	
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'	7'	-	WD	HM				None		
19	A	3'	7'	D	WD	HM				90 MIN	L	
20	J	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	J	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 5/16"		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	HM				45 MIN	L	
51	C	3'	7'	D	WD	HM				20 MIN	L	
52	C	3'	7'	H	WD	HM				20 MIN	R	
53	C	3'	7'	H	WD	HM				20 MIN	R	
54	H	6'	7'	L	WD	HM				20 MIN	L	
55	F	3'	7'	A	HM	HM				-	L	
56	F	3'	7'	A	HM	HM				-	L	

WINDOW SCHEDULE

ID	Size Width	Size Hgt	Material	Head	Jamb	Sill	Type	Head Ht	Quantity	Notes
W1	4'	6'	05 | Aluminum Plain					9'-1 3/4"	1	
W1	4'	6'	05 | Aluminum Plain					9'-2"	12	
W2	4'	6'	05 | Aluminum Plain					9'-1 3/4"	11	
W2	4'	6'	05 | Aluminum Plain					9'-2"	20	
W3	5'	6'	05 | Aluminum Plain					9'-2"	4	
W4	8'	4'	05 | Aluminum Plain					9'-2"	1	** SEE COMMENT BELOW
W5	2'-6"	6'	05 | Aluminum Plain					9'-2"	1	
W6	3'-6"	6'	05 | Aluminum Plain					9'-2"	1	
W7	4'	6'	05 | Aluminum Plain					9'-2"	7	

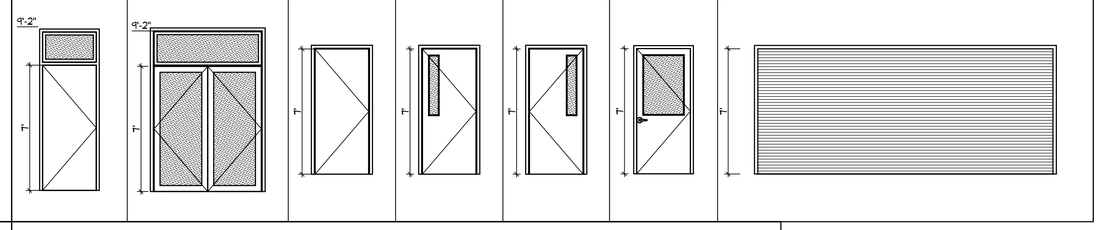
**ALLOWABLE SF = 33.75 SF > 32 SF ACTUAL, THUS OK. GLAZING = D-20 MARK

WINDOW TYPES

ID	W1	W2	W3	W4	W5	W6	V
Style							
Quantity	13	31	4	1	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'-6"x6'-0"	4'-0"x6'

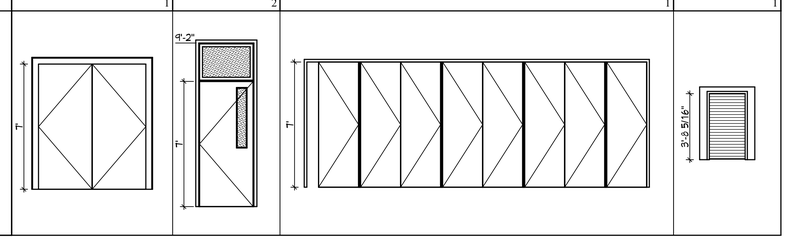
Door Type

Type	A	B	C	D	E	F	G
Quantity	11	2	27	3	6	2	1



Door Type

Type	H	J	L	M
Quantity	1	2	1	1



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

These plans are copyrighted and are subject to copyright protection as an "architectural work" under Sec. 102 of the Copyright Act, 17 U.S.O. as amended December 1990 and known as Architectural Works Copyright Protection Act of 1990. The protection includes but is not limited to the overall form as well as the arrangement and composition of spaces and elements of the design. Under such protection, unauthorized use of these plans, work or home represented, can legally result in the cessation of construction or building being seized and /or monetary compensation to CJW Architecture.

LICENSED ARCHITECT
CARTER JENSEN WARE
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

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: A-8.1

Friday, August 19, 2016 1:22 PM
BIM Server: CJW BIM Server 19 – BIM Server 19/2015/Maple Street Shelter_1

ROOM FINISH SCHEDULE

No.	Room Name	FLOOR	BASE	WALLS				CEILING		REMARKS
		Finish	Finish	N Wall	E Wall	S Wall	W Wall	Finish	clg. ht.	
1	Not Used	-	-	-	-	-	-	-	-	-
2	Men's Emergency Housing	F1	B1	W8	W8	W8	W8	C2	-	-
3	Corridor	F1	B1	W7	W7	W7	W7	C2	-	-
4	Men's Medical Respite	F1	B1	W7	W7	W7	W7	C2	-	-
5	Women's Medical Respite	F1	B1	W7	W7	W7	W7	C2	-	-
6	Women's Bathroom	F2	B2	W2/W3	W2/W3	W2/W3	W2/W3	C1	-	-
7	Women's ADA Bathroom	F2	B2	W2/W3	W2/W3	W2/W3	W2/W3	C1	-	-
8	Men's Bathroom	F2	B2	W2/W3	W2/W3	W2/W3	W2/W3	C1	-	-
9	Men's ADA Bathroom	F2	B2	W2/W3	W2/W3	W2/W3	W2/W3	C1	-	-
10	Kitchen	F2	B2	W6/W7	W7	W4/W1	W6	C1	-	-
11	Pantry	F2	B2	W1	W1	W1	W1	C1	-	-
12	Electrical Equipment	F1	B1	W1	W1	W1	W1	C1	-	-
13	Staff Toilet	F2	B2	W3	W3	W3	W3	C1	-	-
14	Staff Toilet	F2	B2	W3	W3	W3	W3	C1	-	-
15	Staff Meeting	F1	B1	W1	W1	W1	W1	C2	-	-
16	Office	F1	B1	W1	W1	W1	W1	C2	-	-
17	Office	F1	B1	W1	W1	W1	W1	C2	-	-
18	Office	F1	B1	W1	W1	W1	W1	C2	-	-
19	Office	F1	B1	W1	W1	W1	W1	C2	-	-
20	Office	F1	B1	W1	W1	W1	W1	C2	-	-
21	Computer Room	F1	B1	W7	W7	W7	W7	C2	-	-
26	Corridor	F1	B1	W7	W7	W7	W7	C2	-	-
27	Corridor	F1	B1	W7	W7	W7	W7	C2	-	-
28	Corridor	F1	B1	W7	W7	W7	W7	C2	-	-
29	Corridor	F1	B1	W7	W7	W7	W7	C2	-	-
30	TV Room	F1	B1	W7	W7	W7	W7	C2	-	-
31	Dining Commons	F1	B1	W7	W7	W7	W7	C2	-	-
32	Reception & Intake	F1	B1	W7	W7	W7	W7	C2	-	-
33	Men's Transitional Housing	F1	B1	W8	W8	W8	W8	C2	-	-
34	Men's Transitional Housing	F1	B1	W8	W8	W8	W8	C2	-	-
35	Men's Transitional Housing	F1	B1	W8	W8	W8	W8	C2	-	-
36	Women's Transitional Housing	F1	B1	W8	W8	W8	W8	C2	-	-
37	Women's Emergency Housing	F1	B1	W8	W8	W8	W8	C2	-	-
38	Laundry	F2	B2	W7	W7	W7	W7	C2	-	-
39	Linen	F2	B2	W7	W7	W7	W7	C2	-	-
40	Waiting Room	F1	B1	W7	W7	W7	W7	C2	-	-
41	Exam	F1	B1	W7	W7	W7	W7	C2	-	-
42	Men's Shower	F2	B2	W2/W3	W2/W3	W2/W3	W2/W3	C1	-	-
43	Men's Toilet	F2	B2	W2/W3	W2/W3	W2/W3	W2/W3	C1	-	-
44	Women's Shower	F2	B2	W2/W3	W2/W3	W2/W3	W2/W3	C1	-	-
45	Women's Toilet	F2	B2	W2/W3	W2/W3	W2/W3	W2/W3	C1	-	-
46	Supply	F2	B2	W6/W1	W1	W1	W6/W1	C1	-	-
47	Corridor	F1	B1	W7	W7	W7	W7	C2	-	-
48	Corridor	F1	B1	W7	W7	W7	W7	C2	-	-
49	Corridor	F1	B1	W7	W7	W7	W7	C2	-	-
50	Office	F1	B1	W1	W1	W1	W1	C2	-	-
51	Pet Kennel	F3	N/A	CMU	CMU	CMU	CMU	C3	-	-
52	Cabana	F3	N/A	N/A	N/A	N/A	N/A	C3	-	-

FINISH SCHEDULE LEGEND

FLOOR	BASE	WALL	CEILING
F1 = Rubber flooring F2 = Ucrete-Polyurethane non-slip F3 = Concrete-polished-sealed	B1 = 6" Rubber top set B2 = 6" Coved UCrete 3/8"-1/2" radius cove	W1 = Painted GWB W2 = Solid surface on cement board to 10' W3 = Glazed tile to 4'-0", painted GWB above W4 = Stainless steel on GWB to 10' W5 = FRP panels to 4', Painted GWB above W6 = FRP panels to 8', Painted GWB above WT = Abuse resistant GWB to 4', Painted GWB above	C1 = Painted GWB on shear ply C2 = Accoustic ceiling tile in T-Bar grid C3 = Open

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

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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 ◦

ROOM FINISH SCHEDULES

◦ REVISIONS ◦

No.	Date	Notes
1	4-1-2016	Buildling

◦ JOB: 2015.2801

◦ DATE: 6/17/2016

◦ SHEET: A-8.2

Friday, August 19, 2016 1:22 PM
BIM Server: CJW BIM Server 19 — BIM Server 19/2015/Maple Street Shelter_1

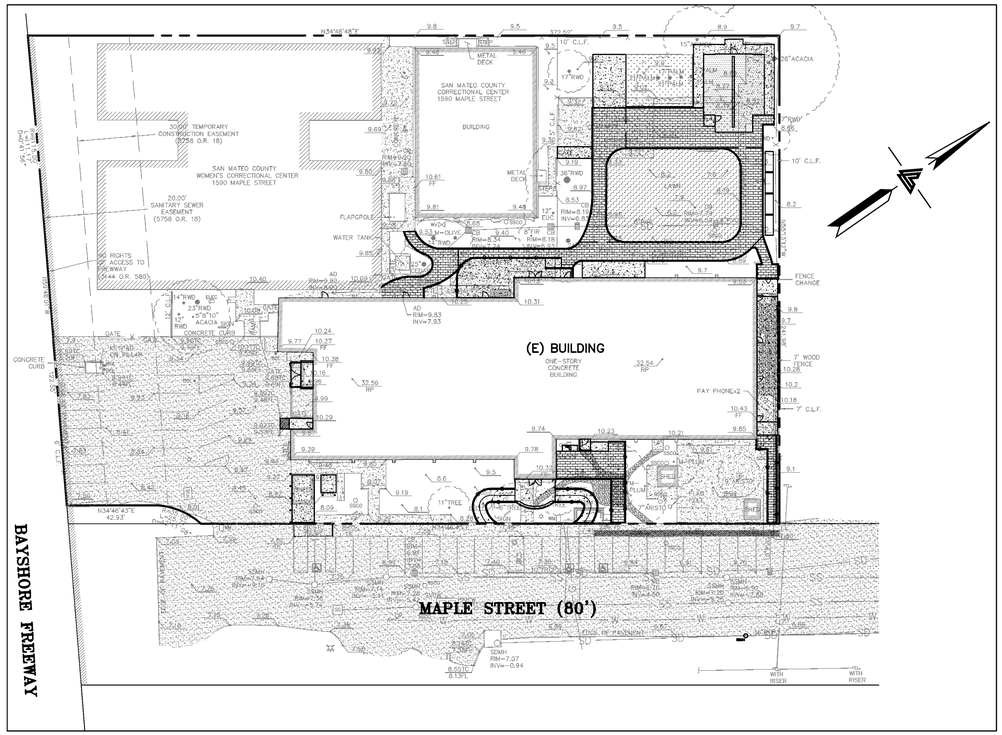
IMPROVEMENT PLANS
LIFEMOVES MAPLE STREET SHELTER
1580 MAPLE STREET
REDWOOD CITY, CALIFORNIA

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		BOUNDARY
		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
		SANITARY SEWER MANHOLE
222.57 INV	222.57 INV	SPOT ELEVATION
		FLOW DIRECTION
	D	DEMOLISH/REMOVE
		BENCHMARK
200	200	CONTOURS
XX" TREE	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
		O.C.	ON CENTER
CB	CATCH BASIN	O/	OVER
C & G	CURB AND GUTTER	(PA)	PLANTING AREA
℄	CENTER LINE	PED	PEDESTRIAN
CPP	CORRUGATED PLASTIC PIPE (SMOOTH INTERIOR)	PIV	POST INDICATOR VALVE
		PSS	PUBLIC SERVICES EASEMENT
CO	CLEANOUT	P.	PROPERTY LINE
COTG	CLEANOUT TO GRADE	PP	POWER POLE
CONC	CONCRETE	PUE	PUBLIC UTILITY EASEMENT
CONST	CONSTRUCT or –TION	PVC	POLYVINYL CHLORIDE
CONC COR	CONCRETE CORNER	R	RADIUS
CY	CUBIC YARD	RCP	REINFORCED CONCRETE PIPE
D	DIAMETER	RIM	RIM ELEVATION
DI	DROP INLET	RW	RAINWATER
DIP	DUCTILE IRON PIPE	R/W	RIGHT OF WAY
EA	EACH	S	SLOPE
EC	END OF CURVE	S.A.D.	SEE ARCHITECTURAL DRAWINGS
EG	EXISTING GRADE	SAN	SANITARY
EL	ELEVATIONS	SD	STORM DRAIN
EP	EDGE OF PAVEMENT	SDMH	STORM DRAIN MANHOLE
EQ	EQUIPMENT	SHT	SHEET
EW	EACH WAY	S.L.D.	SEE LANDSCAPE DRAWINGS
(E)	EXISTING	SPEC	SPECIFICATION
FC	FACE OF CURB	SS	SANITARY SEWER
FF	FINISHED FLOOR	SSCO	SANITARY SEWER CLEANOUT
FG	FINISHED GRADE	SSMH	SANITARY SEWER MANHOLE
FH	FIRE HYDRANT	ST.	STREET
FL	FLOW LINE	STA	STATION
FS	FINISHED SURFACE	STD	STANDARD
G	GAS	STRUCT	STRUCTURAL
GA	GAGE OR GAUGE	T	TELEPHONE
GB	GRADE BREAK	TC	TOP OF CURB
HDPE	HIGH DENSITY CORRUGATED POLYETHYLENE PIPE	TEMP	TEMPORARY
		TP	TOP OF PAVEMENT
HORIZ	HORIZONTAL	TW/FG	TOP OF WALL/FINISH GRADE
HI PT	HIGH POINT	TYP	TYPICAL
H&T	HUB & TACK	VC	VERTICAL CURVE
ID	INSIDE DIAMETER	VCP	VITRIFIED CLAY PIPE
INV	INVERT ELEVATION	VERT	VERTICAL
JB	JUNCTION BOX	W/	WITH
JT	JOINT TRENCH	W, WL	WATER LINE
JP	JOINT UTILITY POLE	WM	WATER METER
L	LENGTH	WWF	WELDED WIRE FABRIC
LNDG	LANDING		



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)

OWNER'S INFORMATION

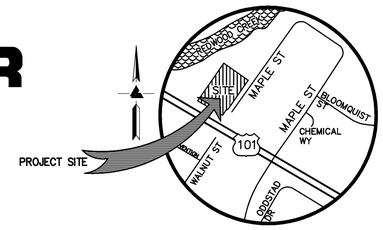
OWNER:
COUNTY OF SAN MATEO
55 COUNTY CENTER–5TH FL
REDWOOD CITY, CA 94063

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.



VICINITY MAP
NO SCALE

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.

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

C–1.0	TITLE SHEET
C–2.0	DEMOLITION PLAN
C–3.0	GRADING & DRAINAGE PLAN
C–3.1	GRADING & DRAINAGE PLAN
C–4.0	UTILITY PLAN
C–4.1	UTILITY PLAN
C–5.0	DETAILS
C–5.1	DETAILS
C–5.2	DETAILS
C–5.3	DETAILS
C–6.0	NOTES
C–6.1	NOTES
ER–1	EROSION CONTROL PLAN
ER–2	EROSION CONTROL DETAILS
HYD–1	HYDROLOGY IMPERVIOUS SURFACE EXHIBIT
HYD–2	PROPOSED DRAINAGE EXHIBIT
SW–1	STORMWATER POLLUTION PREVENTION PLAN

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

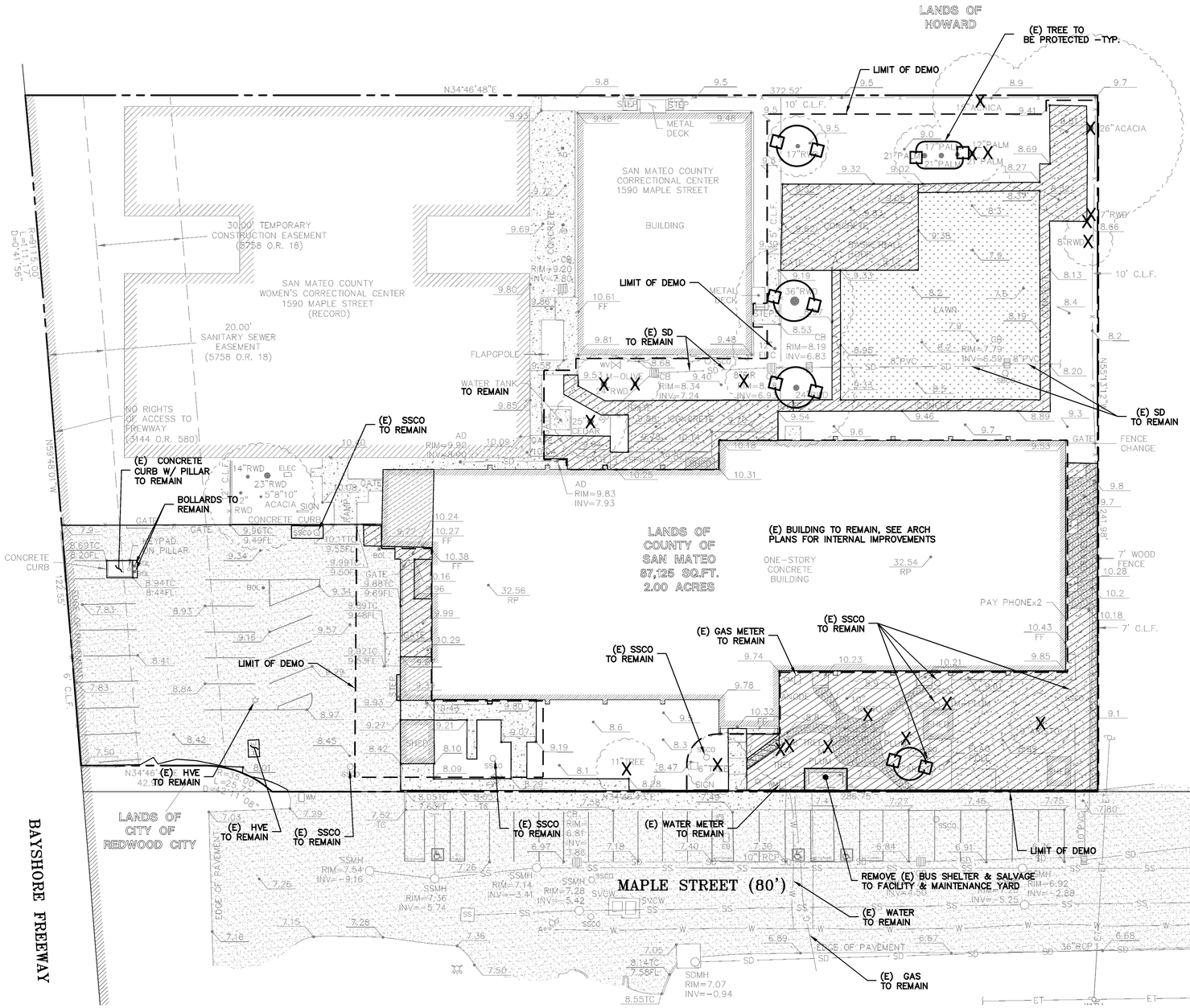
LEA & BRAZE ENGINEERING, INC.
CIVIL ENGINEERS • LAND SURVEYORS
BAY AREA REGION
2495 INDUSTRIAL PKWY WEST
HAYWARD, CALIFORNIA 94545
(P) (510) 887–4086
(F) (510) 887–3019
SACRAMENTO REGION
3017 DOUGLAS BLVD, # 300
ROSEVILLE, CA 95661
(P) (916)966–1338
(F) (916)797–7363
WWW.LEABRAZE.COM

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

TITLE SHEET

COUNTY COMMENTS 08–19–16	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 17 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 FROM DEMOLITION OF FOUNDATIONS & UTILITIES TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.

REGISTERED PROFESSIONAL ENGINEER
JAMES TORR
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

DEMOLITION PLAN

REVISIONS	BY
COUNTY COMMENTS 08-19-16	MH
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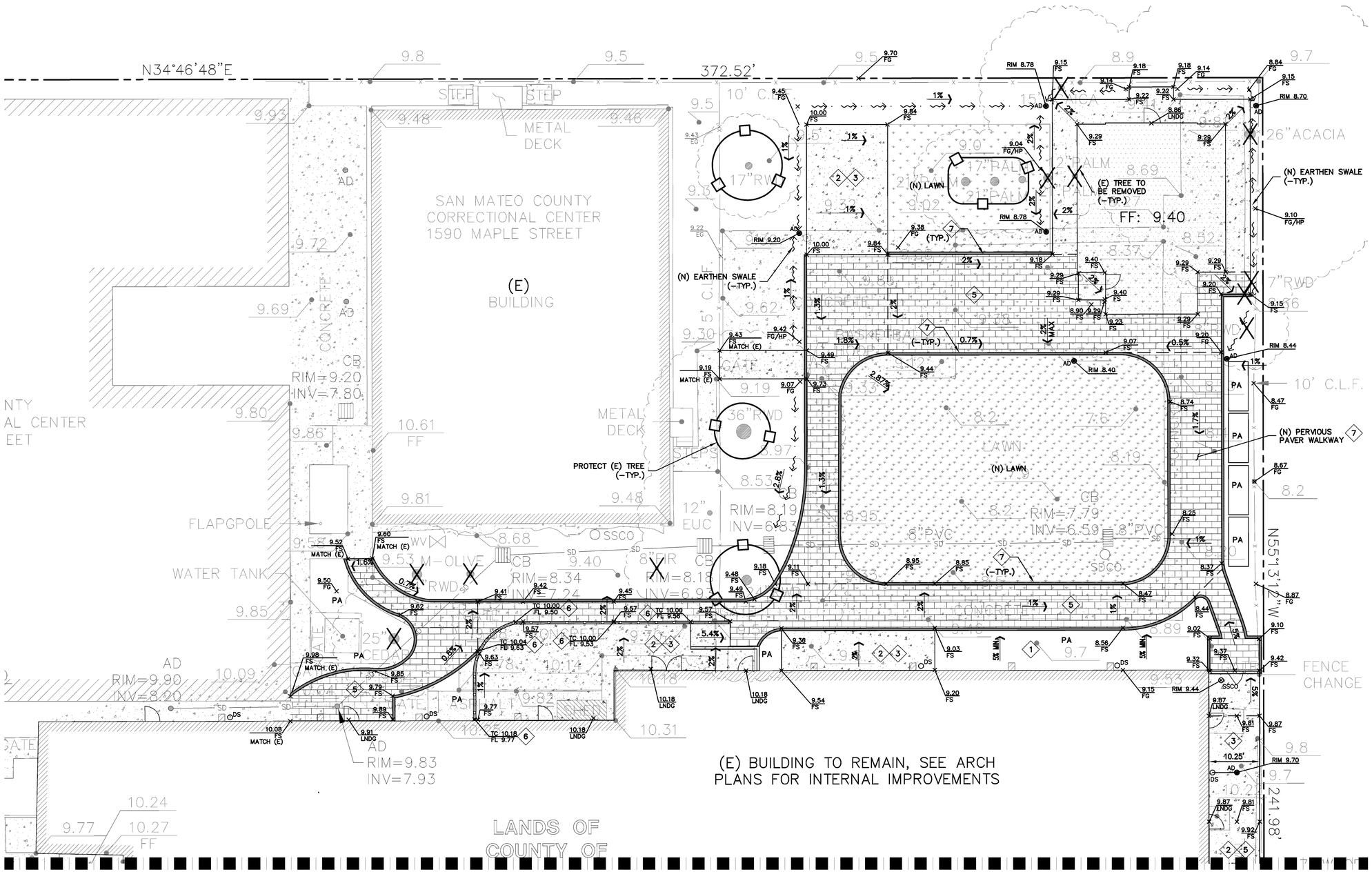
JOB NO:	2151287
DATE:	06-17-16
SCALE:	AS NOTED
DESIGN BY:	MH
DRAWN BY:	WM
SHEET NO:	C-2.0

2 OF 17 SHEETS



LEGEND

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

MATCHLINE SEE SHEET C-3.1

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) REDWOOD HEADER , SEE DETAIL 1 ON SHEET C–5.1.
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

*** 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

GRADING AND DRAINAGE PLAN

REVISIONS	BY
COUNTY COMMENTS 08–19–16	MH
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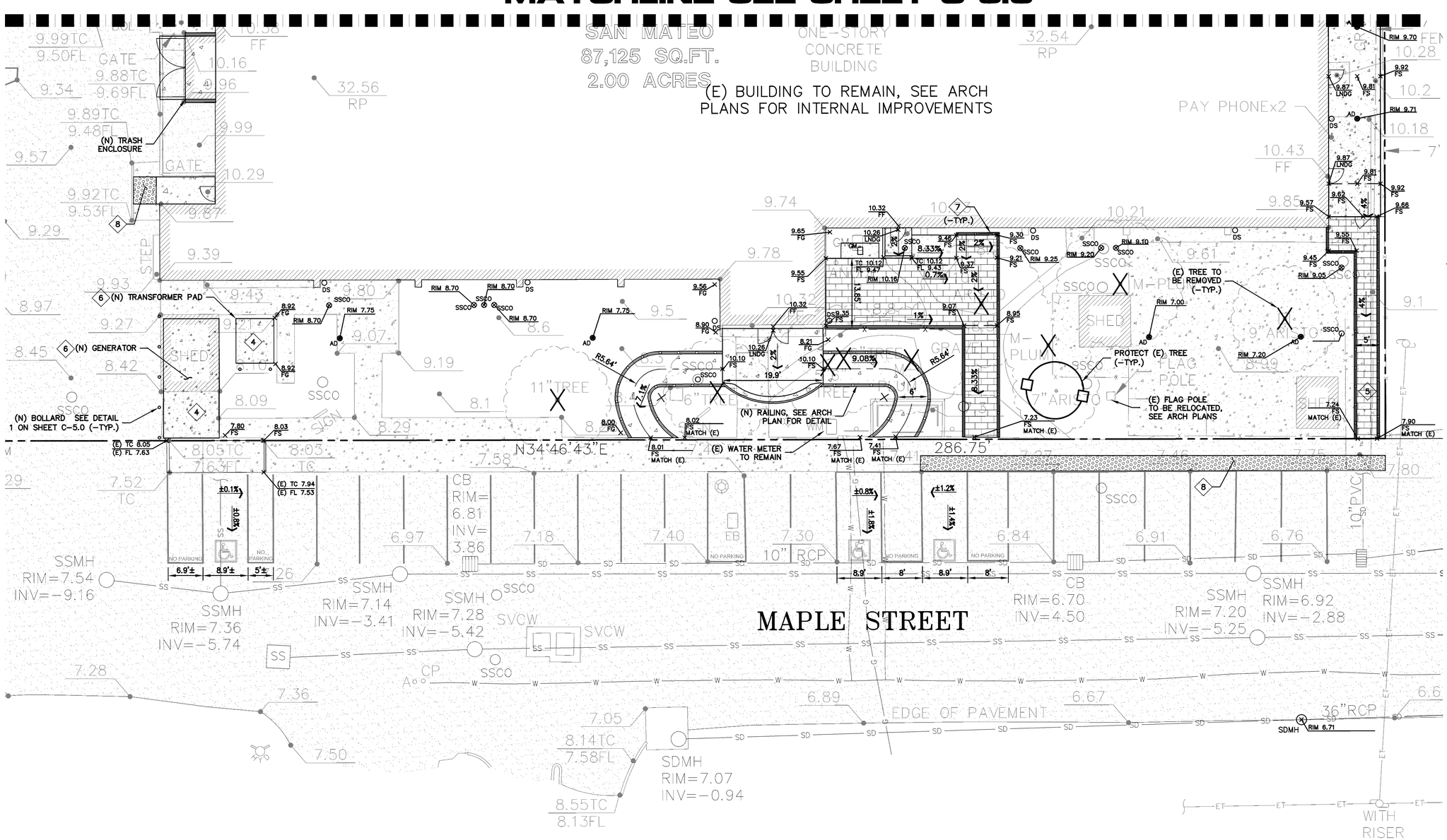
JOB NO:	2151287
DATE:	06–17–16
SCALE:	AS NOTED
DESIGN BY:	MH
DRAWN BY:	WM
SHEET NO:	C-3.0

3 OF 17 SHEETS

MATCHLINE SEE SHEET C-3.0



LEGEND

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

FLATWORK KEYNOTES 1 TO 8

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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 ON SHEET

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

GRADING AND DRAINAGE PLAN

REVISIONS	BY
COUNTY COMMENTS 08-19-16	MH
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JOB NO:	2151287
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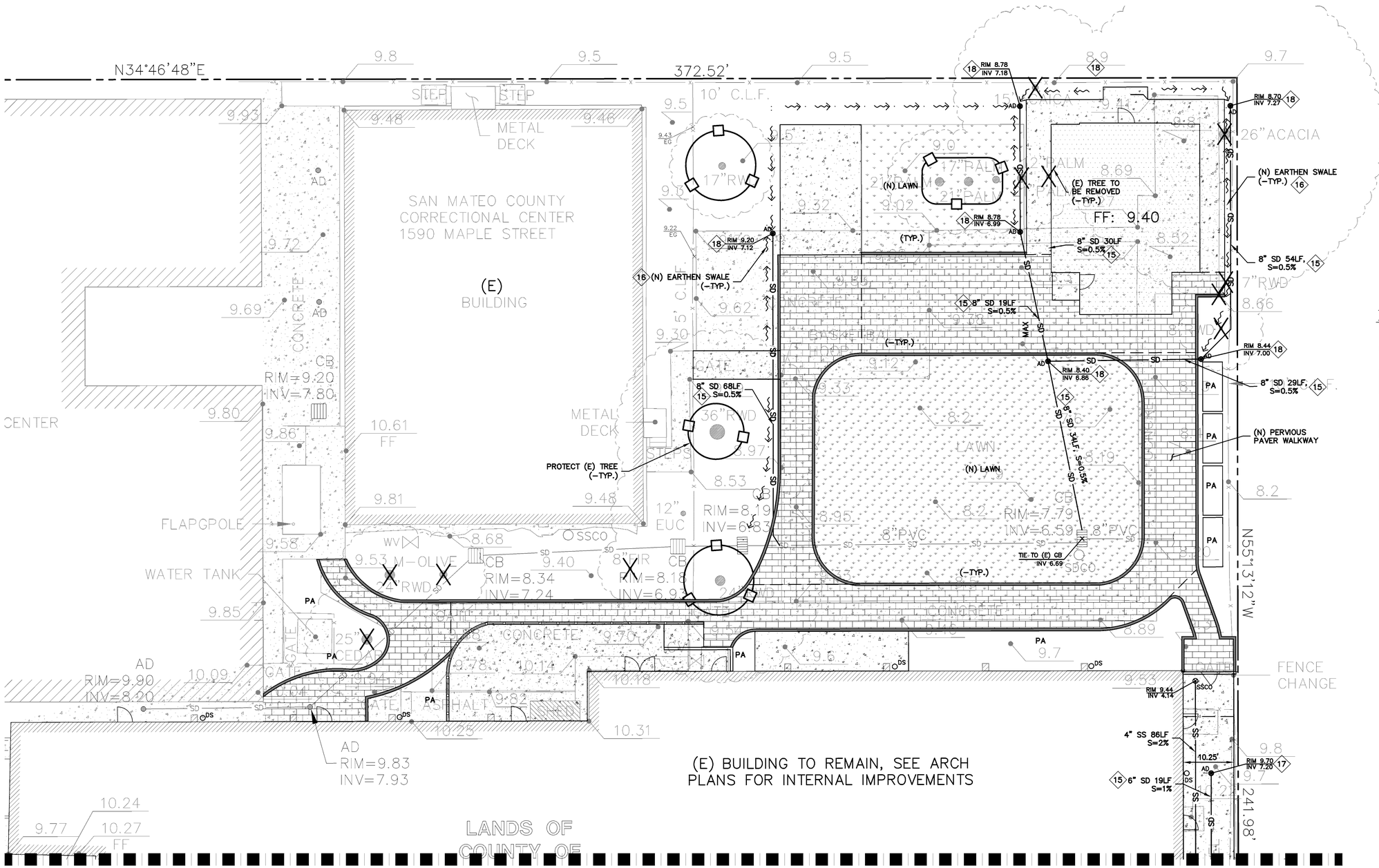

LEGEND

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

MATCHLINE SEE SHEET C-4.1

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) "CHRISTY V–1" AREA DRAINS. CONNECT TO ON–SITE STORM DRAIN SYSTEM. SEE DETAIL 4 ON C–6.1.
20. INSTALL (N) "CENTRAL PRECAST CP2424" INLET WITH SIDE OPENING (DI–SO). SEE DETAIL 5 & 6 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.
22. INSTALL (N) STORM DRAIN MANHOLE PER CITY STANDARD DETAIL M–3 ON SHEET C–5.3.

UTILITIES KEYNOTES 31 TO 33

31. INSTALL (N) SANITARY SEWER LATERALS PER CITY STANDARD DETAILS S–1 & S–4 ON SHEET C–6.3.
32. INSTALL (N) SANITARY SEWER MANHOLE PER CITY STANDARD DETAIL M–3 ON SHEET C–6.3.
33. INSTALL (N) UTILITY TRECH PER CITY STANDARD DETAIL UT–1 ON SHEET C–6.3

*** 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
LIFEMOVES MAPLE STREET SHELTER
1580 MAPLE STREET

SAN MATEO COUNTY

APN: 052–532–020

UTILITY PLAN

COUNTY COMMENTS 08–19–16	MH
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REVISIONS	BY

JOB NO:	2151287
DATE:	06–17–16
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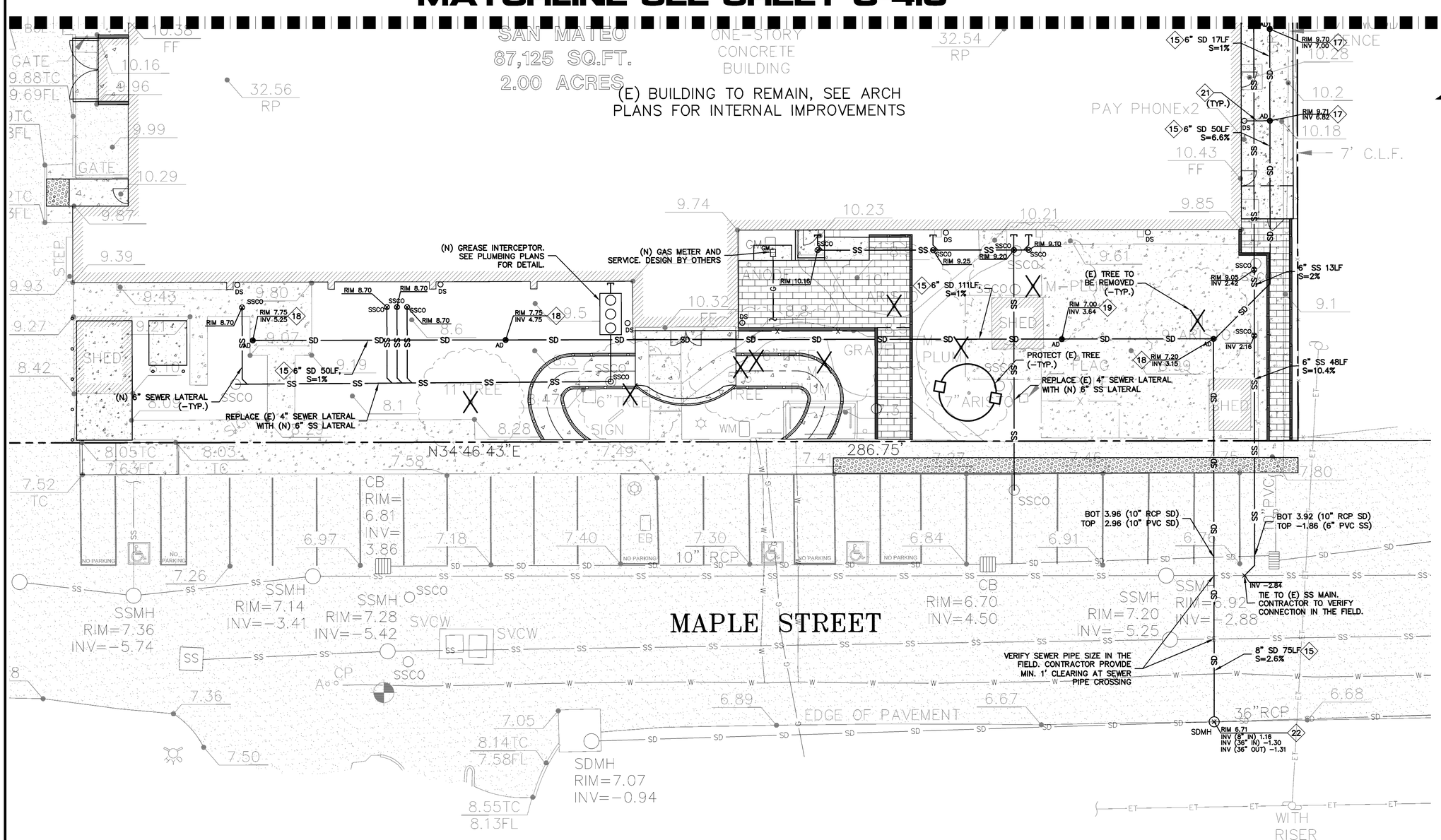
DRAWN BY:	WM
SHEET NO:	C-4.0

5 OF 17 SHEETS

MATCHLINE SEE SHEET C-4.0



LEGEND

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

STORM DRAIN KEYNOTES 15 TO 24

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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) "CHRISTY V–1" AREA DRAINS. CONNECT TO ON–SITE STORM DRAIN SYSTEM. SEE DETAIL 4 ON C–6.1.

20 INSTALL (N) "CENTRAL PRECAST CP2424" INLET WITH SIDE OPENING (DI–SO). SEE DETAIL 5 & 6 SHEET C–5.1.

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UTILITIES KEYNOTES 31 TO 33

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33 INSTALL (N) UTILITY TRECH PER CITY STANDARD DETAIL UT–1 ON SHEET C–6.3

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UTILITY PLAN

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COUNTY COMMENTS 08–19–16	MH
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JOB NO:	2151287
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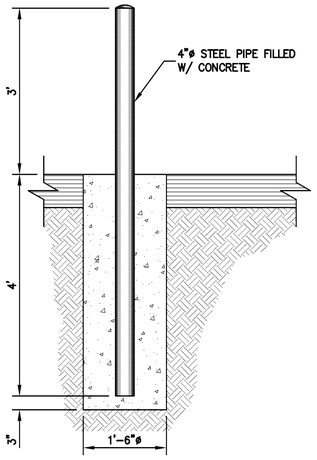
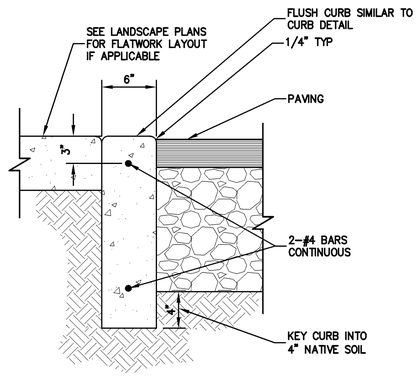
6 OF 17 SHEETS

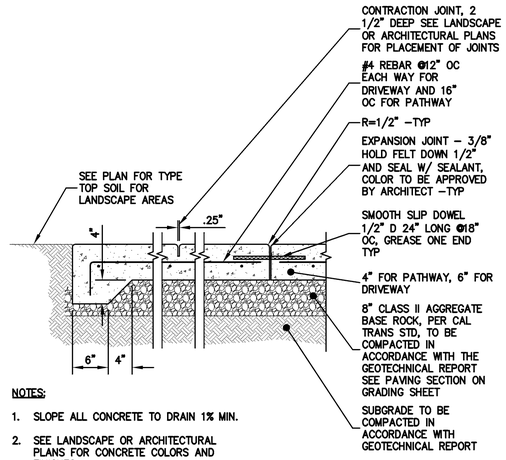


1 C-5.0 **BOLLARD**
NTS



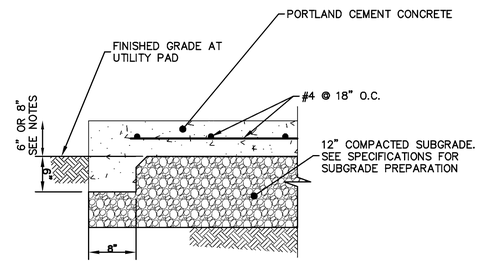
NOTE:
1. CURB MAY EITHER BE EXTRUDED TO THE SHAPE SHOWN OR FORMED & POURED IN PLACE.
2. PROVIDE EXPANSION JOINTS AT 15" O.C.

2 C-5.0 **FLUSH CURB**
NTS



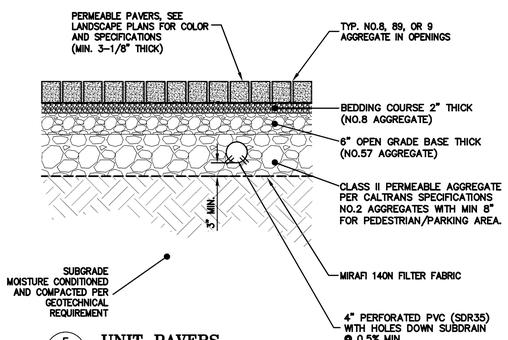
NOTES:
1. SLOPE ALL CONCRETE TO DRAIN 1% MIN.
2. SEE LANDSCAPE OR ARCHITECTURAL PLANS FOR CONCRETE COLORS AND FINISHES.
3. EASE ALL EDGES R=1/2"
4. FELT SHALL BE NON-ASPHALTIC IMPREGNATED.

3 C-5.0 **CONCRETE PAVING**
NTS

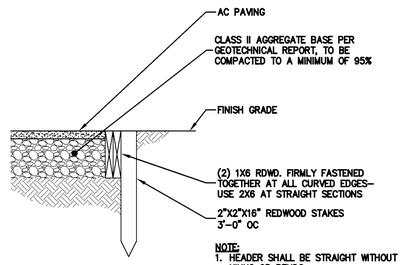


NOTES:
1. TRANSFORMER PAD SHALL BE 6" MIN. WIDER THAN TRANSFORMER ENCLOSURE. TYPICAL TRANSFORMER IS 5'x 8'.
2. GAS METER PAD SHALL BE AS REQUIRED BY PG&E.
3. TRASH ENCLOSURE PAD SHALL BE 8" MIN. AND APRON SHALL EXTEND 10' IN FRONT OF ENCLOSURE.

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

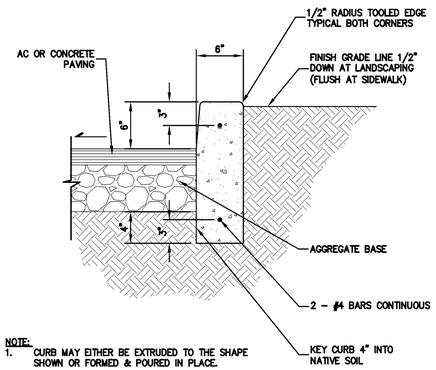


5 C-5.0 **UNIT PAVERS**
NTS



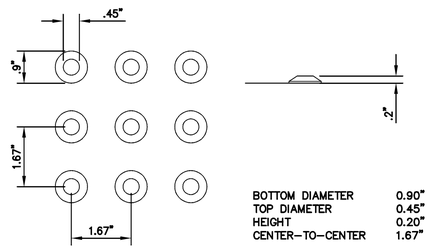
NOTE:
1. HEADER SHALL BE STRAIGHT WITHOUT KINKS OR BENDS.
2. PROTECT REDWOOD HEADER AT ALL TIMES. REPLACE DAMAGED HEADER AND ASPHALT. REPAIR AT CONTRACTOR'S EXPENSE.

6 C-5.0 **REDWOOD HEADER**
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



NOTES:
1. CURB RAMPS SHALL HAVE "DARK GRAY" CAST-IN-PLACE DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND 3'-0" DEPTH OF THE RAMP. DETECTABLE WARNING SURFACES SHALL CONFORM TO THE DETAILS SHOWN, AND THE REQUIREMENTS IN THE SPECIAL PROVISIONS.
2. THE EDGE OF THE DETECTABLE WARNING SURFACE NEAREST TO THE STREET SHALL BE BETWEEN 6" AND 8" FROM THE GUTTER FLOWLINE.

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

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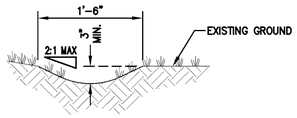
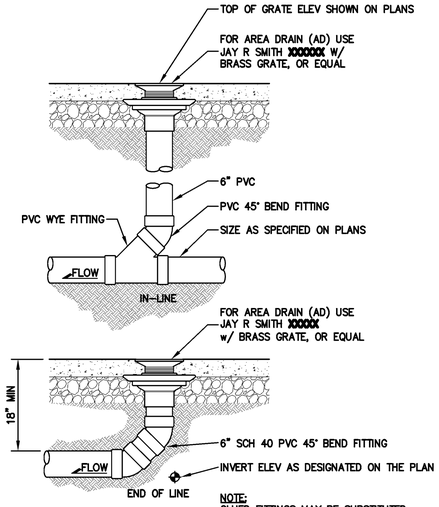
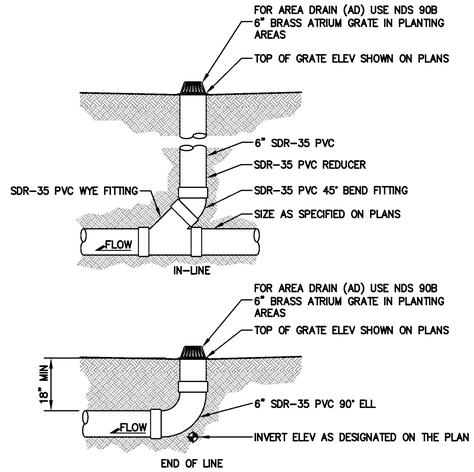


1 C-5.1 **EARTHEN SWALE DETAIL**
NTS



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

2 C-5.1 **FLATWORK DRAIN**
NTS



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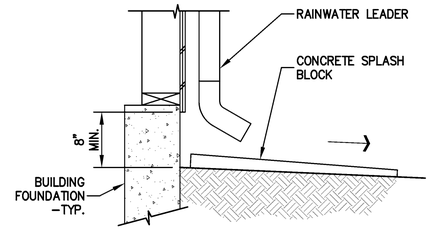
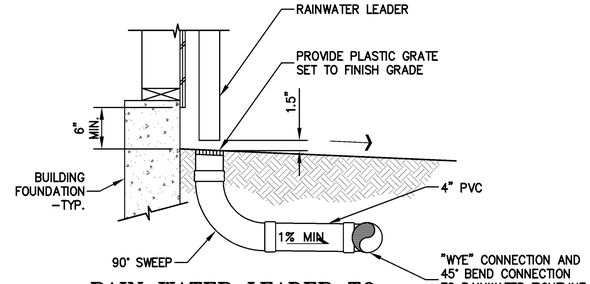
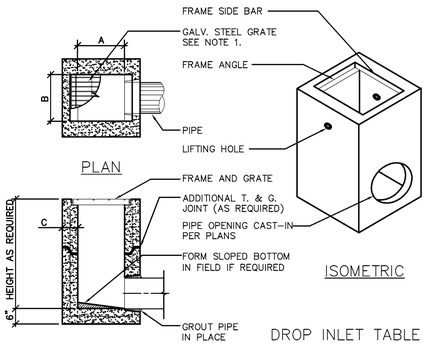
3 C-5.1 **BRASS ATRIUM AREA DRAIN**
NTS



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



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



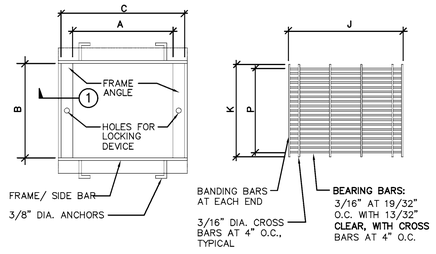
TYPICAL SECTION

NOTES :
1. FRAMES AND GRATES MAY BE SPECIFIED FOR PEDESTRIAN OR H20 TRAFFIC LOADING. ALL GRATES ARE BICYCLE PROOF. OPTIONAL GRATE LOCKING DEVICE AVAILABLE ON REQUEST SEE DRAWING "LOCK" ON PAGE 1-7. CLOSED-MESH GRATES OR CAST IRON FRAME AND GRATES ARE AVAILABLE ON REQUEST.
2. FOR SURFACE AND DISCHARGE OPTIONS AVAILABLE SEE DRAWING NO. "DI-S0" PAGE 1-6 AND "DI-D0" PAGE 1-5.
3. FRAMES AND GRATES DETAILS SEE PAGES 1-8, 1-9, AND 1-10.
4. WALL THICKNESSES ON ALL D.I.S. CAN BE CHANGED UPON REQUEST.
5. 18" WIDE D.I."S REPLACE THE OLD 16" WIDE BOX BK & 1K.

DROP INLET TABLE

MODEL No.	CPC MODEL NAME	A		B		C	
		IN	MM	IN	MM	IN	MM
CP1212	EK	12	300	12	300	4	100
CP1818	CK	18	450	18	450	5	125
CP1824	1K*	18	450	24	600	5	125
CP2424	2K	24	600	24	600	5	125
CP2430	3K	24	600	30	750	5	125
CP3030	5K	30	750	30	750	6	150
CP2436	1L	24	600	36	900	6	150
CP3636	1M	36	900	36	900	6	150
CP2448	3L	24	600	48	1200	6	150
CP3648	3M	36	900	48	1200	6	150
CP4848	1R	48	1200	48	1200	6	150

5 C-5.1 **PRECAST CONCRETE DROP INLET**
NTS



FRAME PLAN GRATE PLAN

MODEL	FRAMES A IN	B IN	C IN	BEARING ANGLE IN	SIDE BAR IN	GRATE J IN	K IN	P IN	BEARING BARS IN	BAND BAR IN	# BARS
CP1212 S H	12-3/8	12-3/8	15	1-1/2X1-1/2	1-1/2x1/4	14-3/4	12-1/8	12-1/16	1-1/4X3/16	1x3/16	21
CP1818 S H	18-3/8	18-3/8	21	1-1/2X1-1/2 2X1-1/2	1-1/2x1/4 2x1/4	20-5/8	18-1/8	18	1-1/4x3/16 1-3/4x3/16	1x3/16 1-1/2x3/16	31
CP1824 S H	18-3/8	24-3/8	21	1-1/2X1-1/2 2X1-1/2	1-1/2x1/4 2x1/4	20-5/8	18-1/8	18	1-1/4x3/16 1-3/4x3/16	1x3/16 1-1/2x3/16	31
CP2424 S H	24-3/8	24-3/8	27	1-1/2X1-1/2 2-1/2X1-1/2	1-1/2x1/4 2-1/2x1/4	26-3/4	24-1/8	23-15/16	1-1/4x3/16 2-1/4x3/16	1x3/16 2x3/16	41

S = SIDEWALK LOADS (300PSF)
H = HEAVY TRAFFIC LOADS (H20)

NOTES :
1. FRAME AND GRATES ARE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM SPEC. A-123.
2. FOR OPTIONAL GRATE LOCKING DEVICE SEE DWG. NO. LOCK, PAGE 1-7.
3. DETAIL-1 SEE PAGES 1-8, 1-9.

6 C-5.1 **PRECAST CONCRETE DROP INLET**
NTS

REGISTERED PROFESSIONAL ENGINEER
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CIVIL
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ORIGINAL SIGNATURES IN BLUE INK

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

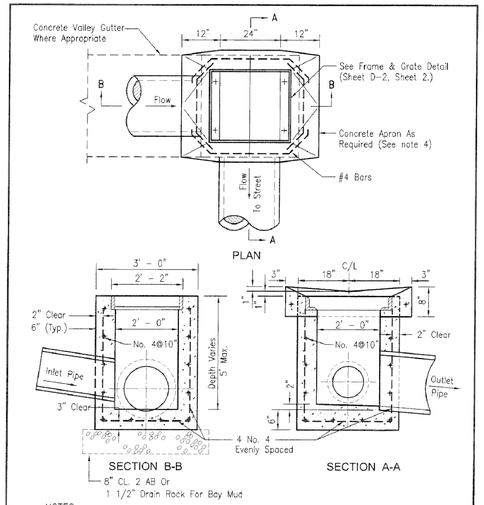
DETAILS

COUNTY COMMENTS 08-19-16	MH
–	–
–	–
–	–
–	–
REVISIONS	BY

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

C-5.1

8 OF 17 SHEETS

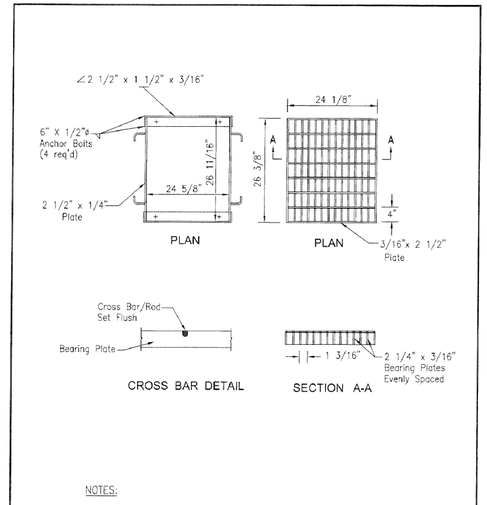


NOTES:

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 steel.
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

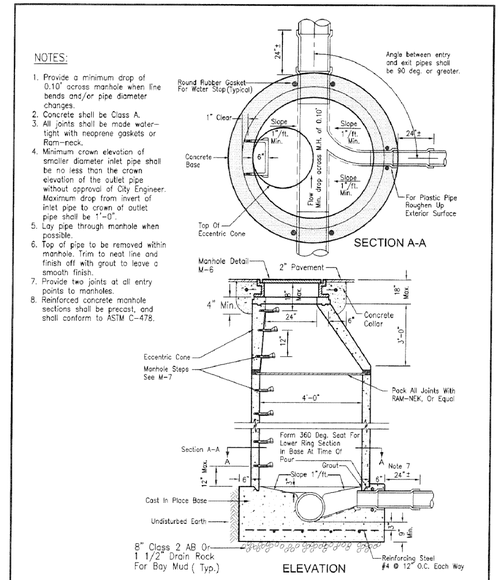


NOTES:

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.

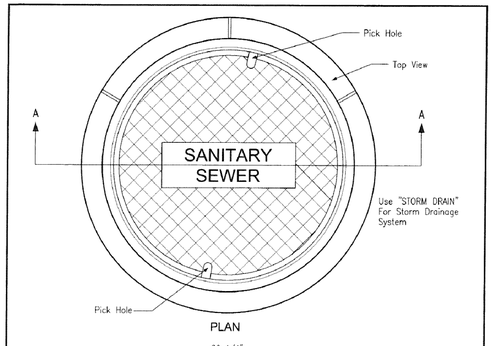
NOT TO SCALE

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

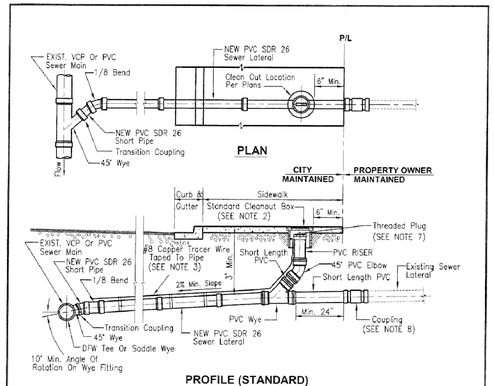


NOTES:

1. 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, D&L Supply A-1024, or equal.

NOT TO SCALE

DATE: 06/23/14	CITY OF REDWOOD CITY ENGINEERING AND TRANSPORTATION MANHOLE FRAME AND COVER	STANDARD DETAIL M - 6 SHT 1 OF 1

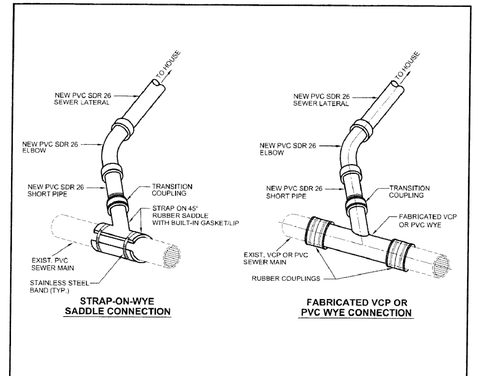


NOTES:

1. Cleanout box shall be Christy concrete type FD8 Curb Valve Box with FD8R 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 8" 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 (800-654-9991) 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

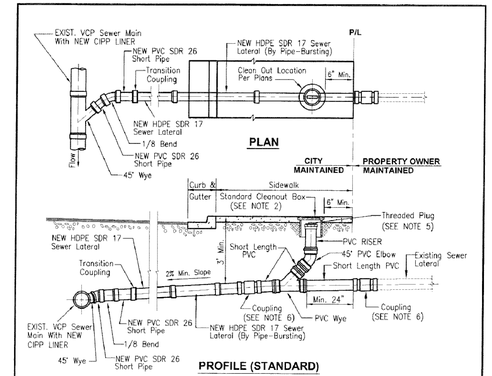


NOTES:

1. RUBBER SADDLES SHALL BE SEALED WITH AN ELASTOMERIC VULCANIZING SEALANT.
2. STAINLESS STEEL SERIES 300 BANDSCREW 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 FD8 Curb Valve Box with FD8R 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 8" 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

REGISTERED PROFESSIONAL ENGINEER
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1580 MAPLE STREET
SAN MATEO COUNTY
APN: 052-532-020

DETAILS

COUNTY COMMENTS 08-19-16	MH
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–	–
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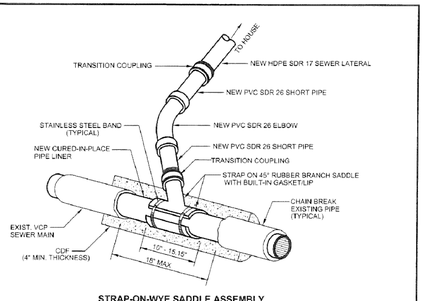
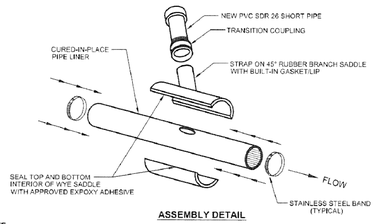
–	–
REVISIONS	BY
JOB NO: 2151287	
DATE: 06-17-16	
SCALE: NTS	
DESIGN BY: MH	
DRAWN BY: WM	
SHEET NO: C-5.2	
9 OF 17 SHEETS	



STRAP-ON-WYE SADDLE ASSEMBLY



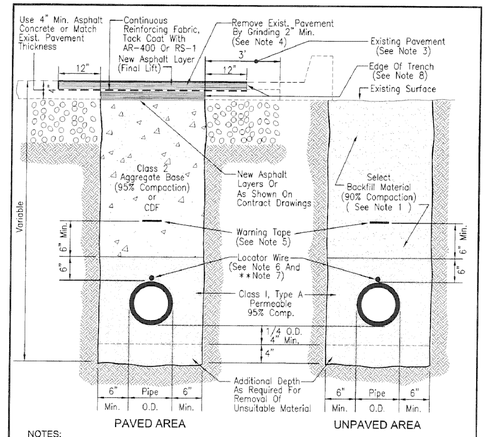
ASSEMBLY DETAIL

NOTE:

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

NOT TO SCALE

Redwood City California Incorporated 1867	**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
DATE: 06/23/14		



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

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LIFEMOVES MAPLE STREET SHELTER
1580 MAPLE STREET

SAN MATEO COUNTY APN: 052-532-020

DETAILS

REVISIONS	BY
COUNTY COMMENTS 08-19-16	MH
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–	–
–	–
–	–

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

C-5.3

10 OF 17 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 DESCRIBE OR ASSEMBLY 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 01–08–16 (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 SOILS 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 THOS

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.
16. 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 LOCATIONS 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.

REGISTERED PROFESSIONAL ENGINEER
JAMES TORY
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

COUNTY COMMENTS 08-19-16	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-6.1

12 OF

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:

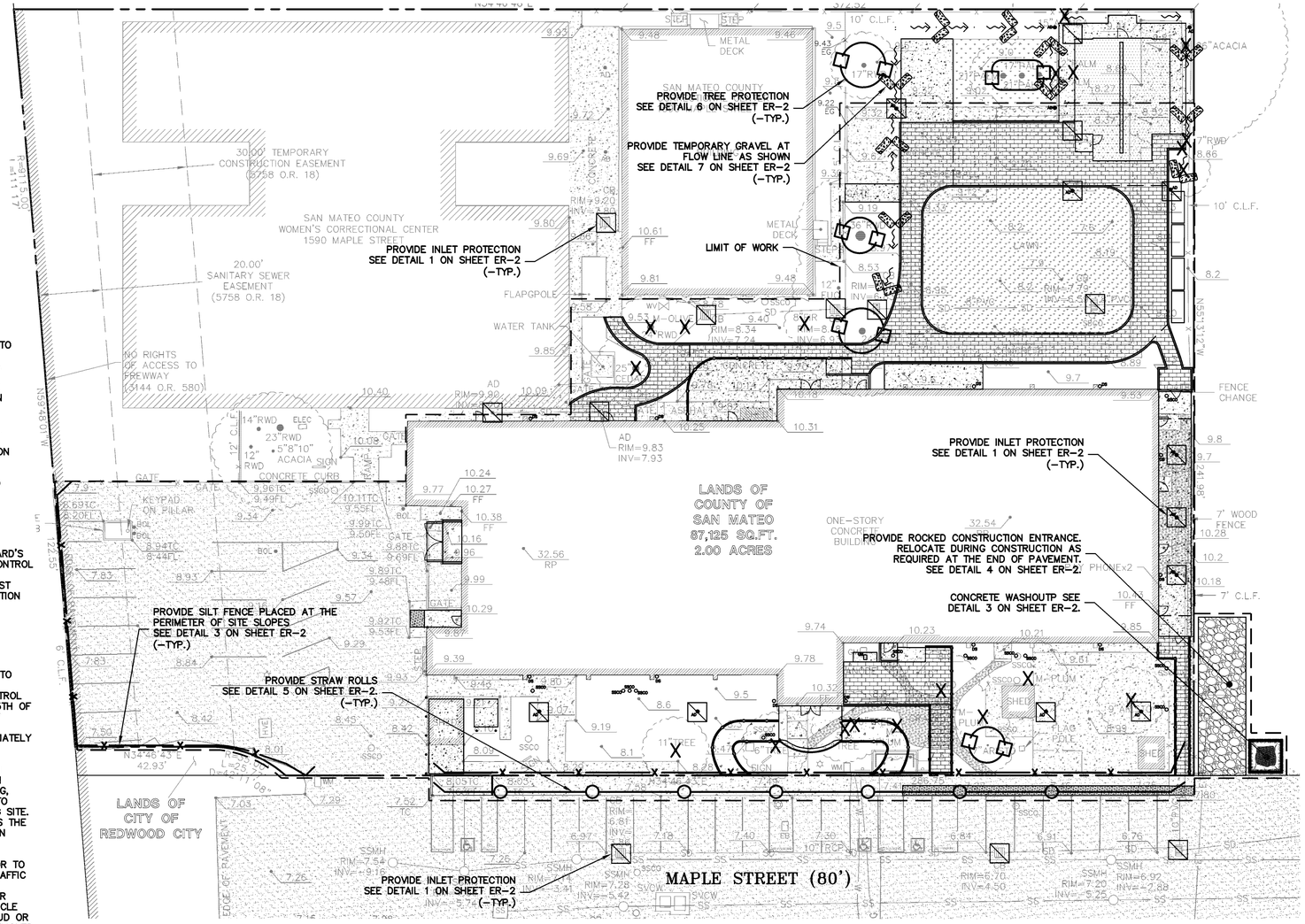
THE PURPOSE OF THIS PLAN IS TO STABILIZE THE SITE TO PREVENT EROSION OF GRADED AREAS AND TO PREVENT SEDIMENTATION FROM LEAVING THE CONSTRUCTION AREA AND AFFECTING NEIGHBORING SITES, NATURAL AREAS, PUBLIC FACILITIES OR ANY OTHER AREA THAT MIGHT BE AFFECTED BY SEDIMENTATION. ALL MEASURES SHOWN ON THIS 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 TORR No. 63127 CIVIL STATE OF CALIFORNIA ORIGINAL SIGNATURES IN BLUE INK

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1580 MAPLE STREET
SAN MATEO COUNTY
APN: 052–532–020

EROSION CONTROL PLAN

COUNTY COMMENTS 08–19–16	MH
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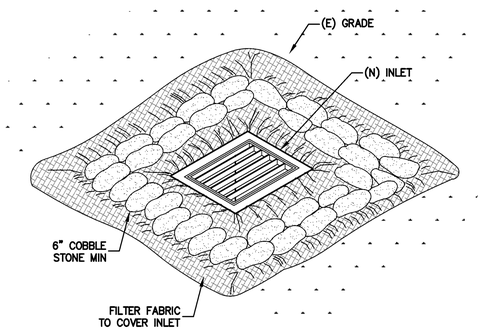
–	–
REVISIONS	BY

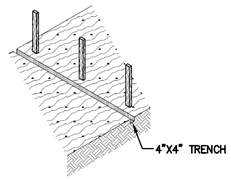
JOB NO:	2151287
DATE:	06–17–16
SCALE:	AS NOTED
DESIGN BY:	MH
DRAWN BY:	WM
SHEET NO:	ER–1

13 OF 17 SHEETS

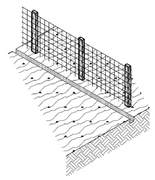


1 INLET PROTECTION
ER-2 NTS

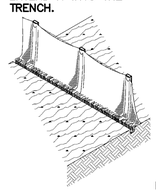
1. SET POSTS AND EXCAVATE A 4"X4" TRENCH UP SLOPE ALONG THE LINE OF POSTS.



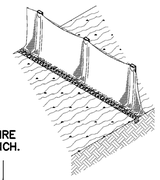
2. STAPLE WIRE FENCE TO THE POSTS.

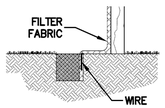


3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.



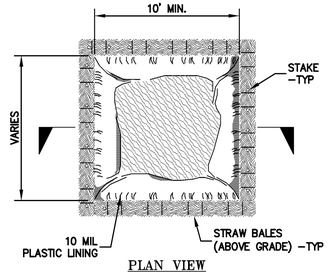
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



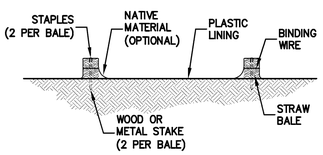


NOTE:
IT IS ESSENTIAL THAT THE WIRE/FABRIC BE FULLY EMBEDDED INTO THE GROUND SO RUN-OFF CANNOT FLOW FREELY UNDER FENCE.

2 SILT FENCE
ER-2 NTS



PLAN VIEW



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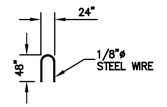
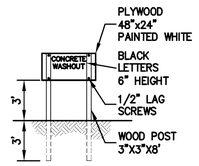


STAPLE DETAIL

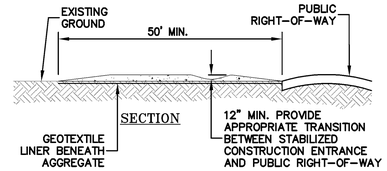


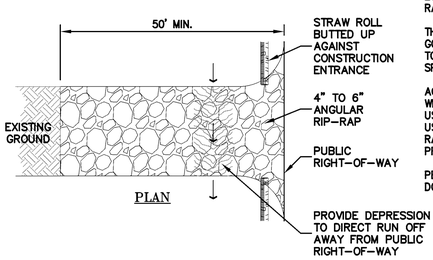
CONCRETE WASHOUT SIGN DETAIL

NOTES:
ACTUAL LAYOUT DETERMINED IN FIELD.

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

3 CONCRETE WASHOUT
ER-2 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'.

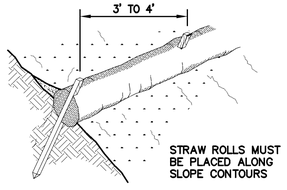
WIDTH SHALL BE A MIN. OF 15' OR GREATER IF NECESSARY TO COVER ALL VEHICULAR INGRESS AND EGRESS. PROVIDE AMPLE TURNING RADII.

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.

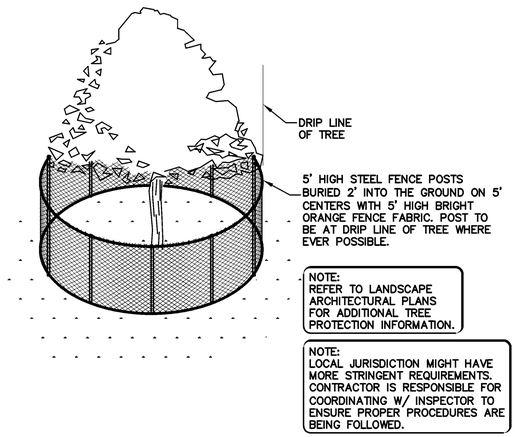
PERIODIC TOP DRESSING SHALL BE DONE AS NEEDED.

4 CONSTRUCTION ENTRANCE
ER-2 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.

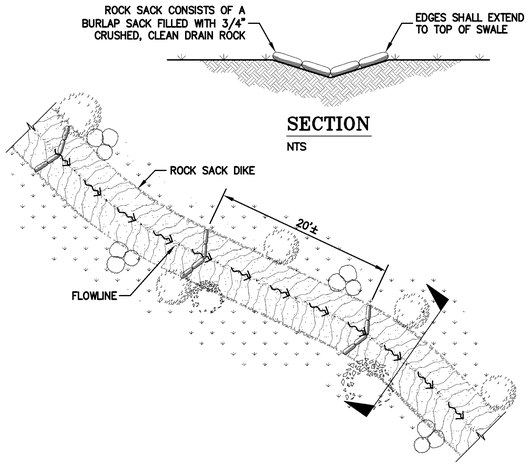
5 STRAW ROLLS FLAT LOT
ER-2 NTS



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 EXISTING TREE PROTECTION DETAIL
ER-2 NTS



SECTION
NTS

7 ROCK SACK DIKE IN SWALE
ER-2 NTS

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

EROSION CONTROL DETAILS

COUNTY COMMENTS 08-19-16	MH
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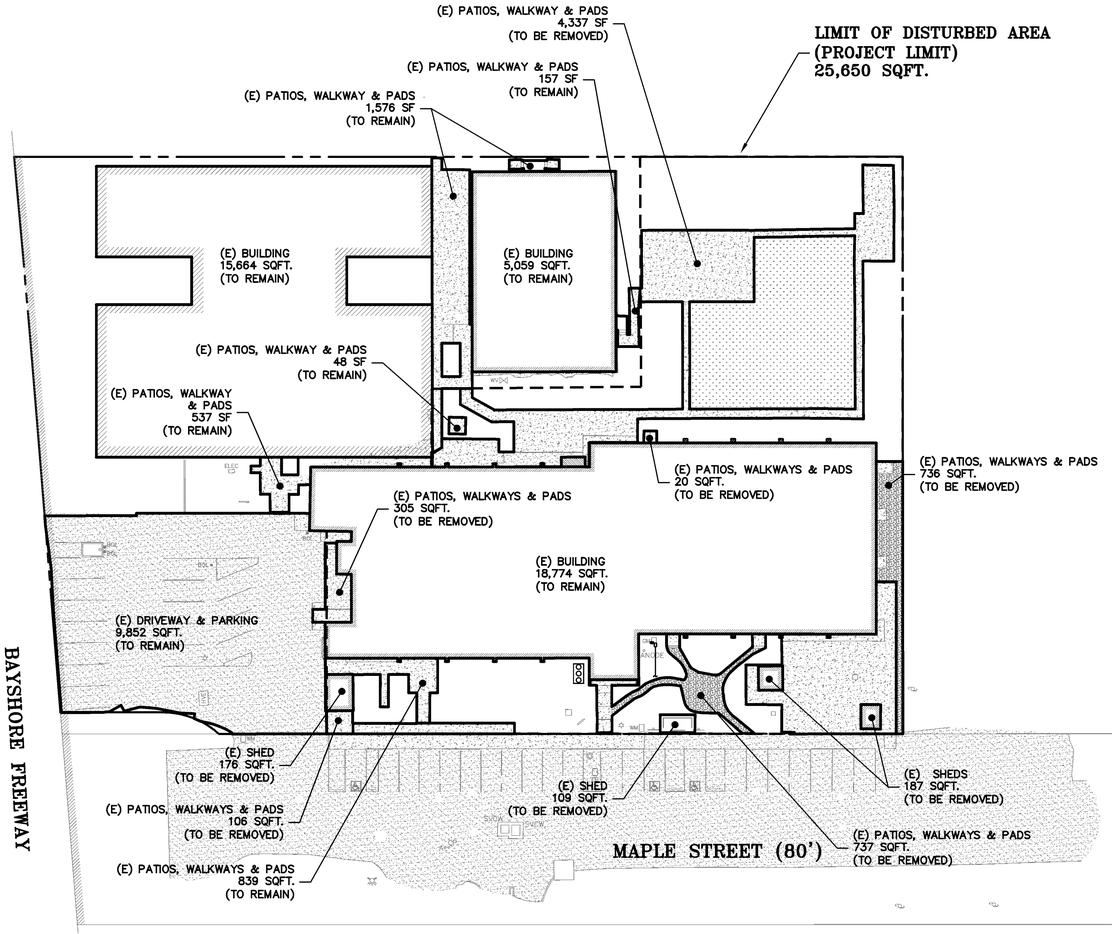
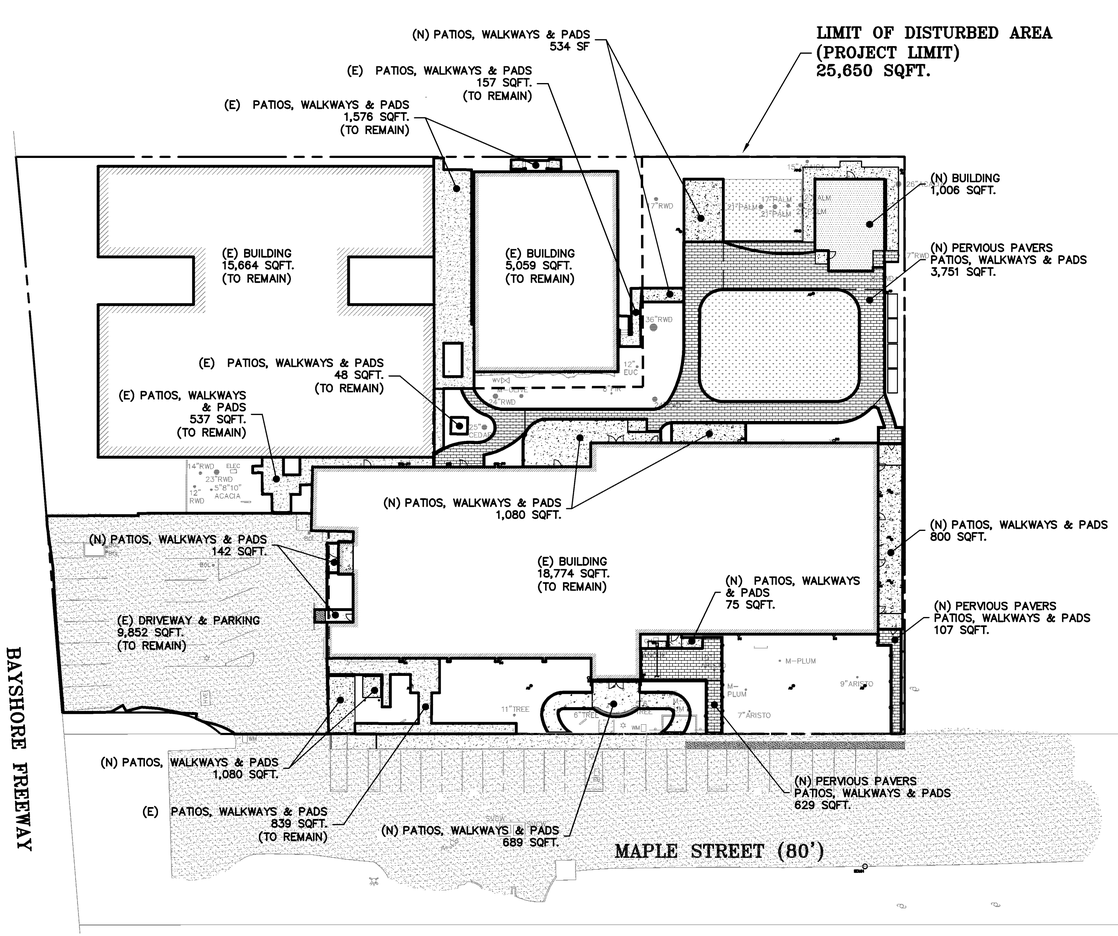
REVISIONS	BY

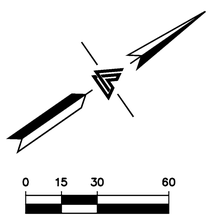
JOB NO:	2151287
DATE:	06-17-16
SCALE:	NTS
DESIGN BY:	MH
DRAWN BY:	WM
SHEET NO:	ER-2



EXISTING SITE



PROPOSED SITE



LEGEND

- GRAVEL
- CONCRETE
- PERVIOUS PAVERS
- GRASS
- DETECTABLE WARNING SURFACE
- 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	39,501	0	1,066	40,567
SHEDS	472	472	0	0
DRIVEWAY & PARKING	9,852	0	0	9,852
IMPERVIOUS PATIOS, WALKWAYS & PADS	9,398	6,241	4,400	7,557
TOTAL IMPERVIOUS AREA	59,223	6,713	**5,466**	**57,976**
NET CHANGE IN IMPERVIOUS AREA	**-1,247 SQUARE FEET (NET DECREASE)**			
PERVIOUS SURFACES				
PERVIOUS PAVER PATIOS, WALKWAYS & PADS	0	0	4,487	4,487
TOTAL DEVELOPED AREA	59,223	6,713	**9,953**	**62,463**
NET CHANGE IN DEVELOPED AREA	**+3,240 SQUARE FEET (NET INCREASE)**			
FLOOR AREA	REFER TO THE ARCHITECTURAL PLANS FOR PROPOSED FLOOR AREA CALCULATIONS			

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IMPROVEMENT PLANS
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1580 MAPLE STREET
SAN MATEO COUNTY

APN: 052-532-020

IMPERVIOUS SURFACE EXHIBIT

REVISIONS	BY
COUNTY COMMENTS 08-19-16	MH
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JOB NO: 2151287
DATE: 06-17-16
SCALE: 1"=30'
DESIGN BY: MH
DRAWN BY: WM
SHEET NO:

HYD-1

15 OF 17 SHEETS

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[6] (sq.ft.)	I.B.1.c Existing Impervious[5] Surface to be Replaced[6] (sq.ft.)	I.B.1.d New Impervious[5] Surface to be Created[6] (sq.ft.)	I.B.1.e Post-Project Impervious[5] Surface (sq.ft.) (=b+c+d)
Roof area(s)	39,973	39,501	472	594	40,567
Impervious[5] sidewalks, patios, paths, driveways, streets	19,250	13,009	4,400	0	17,409
Impervious[5] uncovered parking[7]	0	0	0	0	0
Totals of Impervious Surfaces:	59,223	52,510	4,872	594	57,976
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):***				**5,466**	

Type of Pervious Surface	Pre-Project Pervious Surface (sq.ft.)		Post-project Pervious Surface (sq.ft.)
Landscaping	27,956		24,716
Pervious Paving	0	**I.B.1.e.1:**	4,487
Green Roof	0		0
Totals of Pervious Surfaces:	27,956		29,203
Total Site Area (Total Impervious[5]+Total Pervious=**I.A.2**)	87,179		87,179

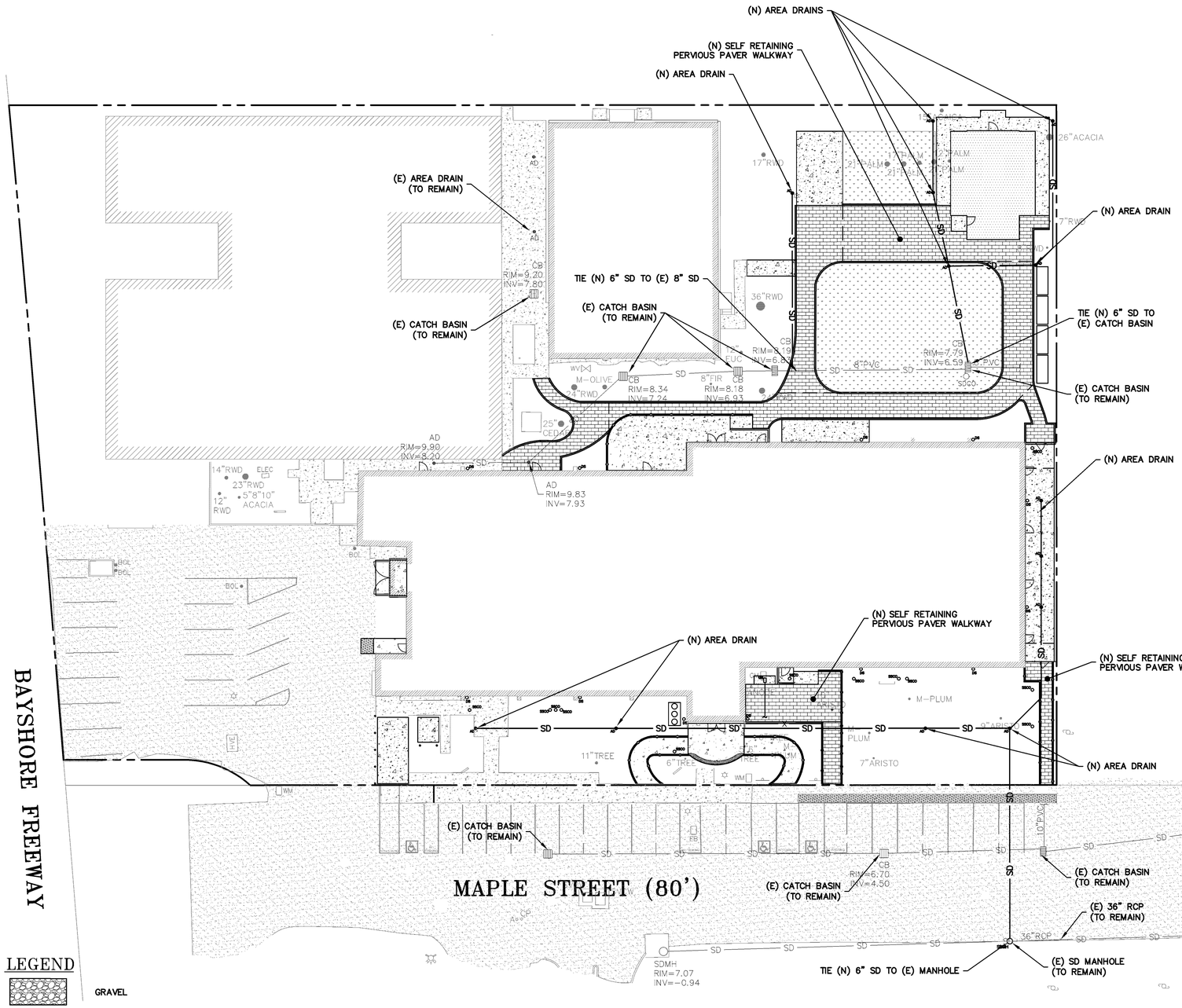
I.B.2 Please review and attach additional worksheets as required below using the Total Impervious Surface (IS) Replaced and Created in cell I.B.1.f from Table I.B.1 above and other factors:

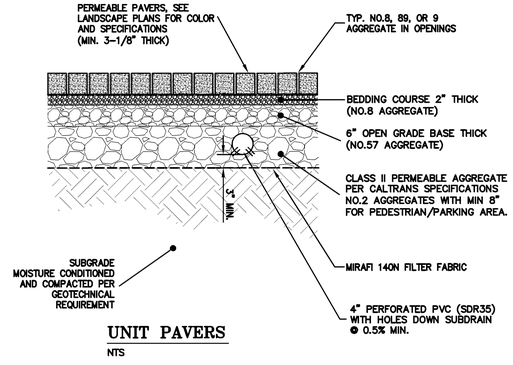
	Check all that apply:	Check One Yes	Check One No	Attach Worksheet
I.B.2.a	Does this project involve any earthwork? If YES, then Check Yes, and Complete Worksheet A If NO, then go to I.B.2.b	☒	☐	A
I.B.2.b	Is **I.B.1.f** greater than or equal to 2,500 sq.ft? If YES, then the Project is subject to Provision 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/construction.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

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

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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

COUNTY COMMENTS 08-19-16	MH
–	–
–	–
–	–
–	–
REVISIONS	BY
JOB NO:	2151287
DATE:	06-17-16
SCALE:	1"=20'
DESIGN BY:	MH
DRAWN BY:	WM
SHEET NO:	

HYD-2

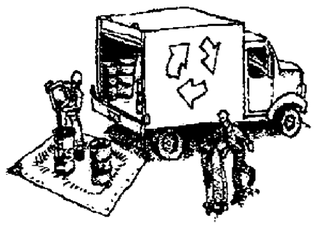
16 OF 17 SHEETS

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



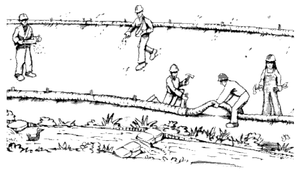
Maintenance and Parking

- ❑ 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

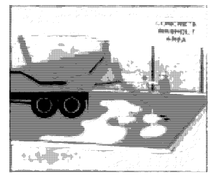


- ❑ Avoid paving and seal coating in wet weather or when rain is forecast, to prevent materials that have not cured from contacting stormwater runoff.
- ❑ Cover storm drain inlets and manholes when applying seal coat, tack coat, slurry seal, fog seal, etc.
- ❑ Collect and recycle or appropriately dispose 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, abosorb, 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



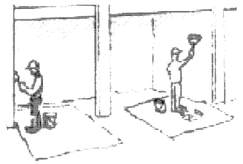
- ❑ Store concrete, grout, and mortar away from storm drains or waterways, and on pallets under cover to protect them from rain, runoff, and wind.
- ❑ Wash out concrete equipment/trucks offsite or in a designated washout area, where the water will flow into a temporary waste pit, and in a manner that 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.

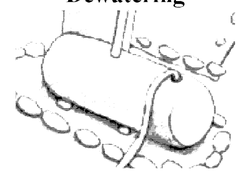
Painting & Paint Removal



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!

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

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

STORM WATER POLLUTION PREVENTION PLAN

COUNTY COMMENTS 08-19-16	MH
–	–
–	–
–	–
–	–
REVISIONS	BY

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

SW-1

17 OF 17 SHEETS

NAIL SCHEDULE

A) WOOD MEMBERS SHALL BE CONNECTED WITH NAILING INDICATED IN CBC TABLE 2306.4.1 (WALL), 2306.3.1 (ROOF) & 2304.9.1 FASTENING SCHEDULE UNLESS GREATER SIZES AND NUMBER OF NAILS ARE SHOWN OR NOTED ON DRAWINGS; NAILS EXPOSED TO WEATHER SHALL BE GALVANIZED; NAILS SHALL BE COMMON WIRE NAILS; PRE-DRILLED HOLES FOR NAILS SHALL BE PROVIDED WHERE THE WOOD MEMBERS TEND TO SPLIT; WOOD MEMBERS SHALL BE REPLACED AND REMOVED FROM JOB PROMPTLY WHERE REQUIRED. SHORT PLYWOOD NAILS FOR EQUIVALENT SHEAR VALUE MAY BE USED. SEE PLANS FOR NAIL SPACING. ROOF SHEATHING 8d AT 6 INCHES O.C. AT SUPPORTED EDGES. 8d AT 12 INCHES O.C. INTERMEDIATE SUPPORTS. FLOOR SHEATHING 10d AT 6 INCHES O.C. AT BOUNDARIES AND PANEL EDGES AND 10d AT 10 INCHES O.C. AT INTERMEDIATE SUPPORTS. PLYWOOD WALL SHEATHING SHALL BE NAILED PER SHEAR WALL SCHEDULE AT SHEAR WALLS, AND AT A MINIMUM OF 8d AT 6 INCHES O.C. ALL OTHER EDGES.
USE 3/8" EDGE DISTANCE FOR STRUCTURAL PANEL BOUNDARY NAILING.

ALL DIAPHRAGM AND SHEAR WALL NAILING SHALL UTILIZE COMMON NAILS WITH FULL HEADS.

MECHANICALLY DRIVEN NAILS USED IN WOOD STRUCTURAL, PANEL SHEAR WALLS SHALL MEET THE SAME DIMENSIONS AS THAT FOR HAND DRIVEN NAILS., INCLUDING DIAMETER, MINIMUM LENGTH AND MINIMUM HEAD DIAMETER. CLIPPED HEAD OR BOX NAILS ARE NOT ACCEPTABLE.

SHEATHING NAILS OR OTHER APPROVED SHEATHING CONNECTORS SHALL BE DRIVEN SO THAT HEADS OR CROWN IS FLUSH WITH THE SURFACE OF THE SHEATHING

AT PRESSURE TREATED LUMBER USE HOT-DIPPED GALVANIZED OR STAINLESS STEEL, . CBC 2304.9.5

NAIL SCHEDULE CBC TABLE 2304.9.1

CONNECTION	FASTENING	LOCATION
1. JOIST TO SILL OR GIRDER	3-8d COMMON (2 1/2"x0.131") 3-3"x0.131" NAILS 3-3" 14 GA STAPLES	TOE NAIL
2. BRIDGING TO JOIST	2-8d COMMON (2 1/2"x0.131") 2-3"x0.131" NAILS 2-3" 14 GA STAPLES	TOE NAIL EACH END
3. 1"x6" SUBFLOOR OR LESS TO EACH JOIST	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
4. WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST	3-8d COMMON (2 1/2"x0.131")	FACE NAIL
5. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3 1/2"x0.162")	BLIND AND FACE NAIL
6. SOLE PLATE TO JOIST OR BLOCKING	16d COMMON (3 1/2"x0.131") AT 16" O.C. 3"x0.131" NAILS AT 8" O.C. 3" 14 GA STAPLES AT 12" O.C.	TYPICAL FACE NAIL
SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	3-16d COMMON (3 1/2"x0.131") AT 16" O.C. 4-3"x0.131" NAILS AT 8" O.C. 4-3" 14 GA STAPLES AT 12" O.C.	BRACED WALL PANELS
7. TOP PLATE TO STUD	2-16d COMMON (3 1/2"x0.162") 3-3"x0.131" NAILS 3-3" 14 GA STAPLES #8 screw each side at metal stud	END NAIL
8. STUD TO SOLE PLATE	4-8d COMMON (2 1/2"x0.131") AT 16" O.C. 4-3"x0.131" NAILS 4-3" 14 GA STAPLES #8 screw each side at metal studs	TOE NAIL
	2-20d COMMON (4"x0.192") 3-3"x0.131" NAILS 3-3" 14 GA STAPLES	END NAIL
9. DOUBLE STUDS	16d COMMON (3 1/2"x0.135") @ 24" O.C. 3"x0.131" NAILS @ 8" O.C. 3" 14 GA STAPLES @ 8" O.C.	FACE NAIL
10. DOUBLE TOP PLATES	16d COMMON (3 1/2"x0.135") AT 16" O.C. 3"x0.131" NAILS AT 12" O.C. 3" 14 GA STAPLES AT 12" O.C.	TYPICAL FACE NAIL
DOUBLE TOP PLATES	8-16d COMMON (3 1/2"x0.162") 12-3"x0.131" NAILS 12-3" 14 GA STAPLES	LAP SPLICE
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATES	3-8d COMMON (2 1/2"x0.131") 3-3"x0.131" NAILS 3-3" 14 GA STAPLES	TOE NAIL
12. RIM JOIST TO TOP PLATE	8d COMMON (2 1/2"x0.131") AT 6" O.C. 3"x0.131" NAILS AT 6" O.C. 3" 14 GA STAPLES AT 6" O.C.	TOE NAIL
13. TOP PLATE, LAPS AND INTERSECTIONS	2-16d COMMON (3 1/2"x0.162") 3-3"x0.131" NAILS 3-3" 14 GA STAPLES Corner or Intersection 4-#8 Screws at metal studs	FACE NAIL
14. CONTINUOUS HEADER, TWO PIECES	16d COMMON (2 1/2"x0.162")	TOE NAIL
15. CEILING JOISTS TO PLATE	3-8d COMMON (2 1/2"x0.131") 5-3"x0.131" NAILS 5-3" 14 GA STAPLES	TOE NAIL
16. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2"x0.131")	TOE NAIL
17. CEILING JOISTS, LAPS OVER PARTIONS. (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1.	3-16d COMMON (3 1/2"x0.162") MINIMUM TABLE 2308.10.4.1 4-3"x0.131" NAILS 4-3" 14 GA STAPLES	FACE NAIL
18. CEILING JOISTS TO PARALLEL RAFTERS. (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1.	3-16d COMMON (3 1/2"x0.162") MINIMUM TABLE 2308.10.4.1 4-3"x0.131" NAILS 4-3" 14 GA STAPLES	FACE NAIL
19. RAFTER TO PLATE. (SEE SECTION 2308.10.1, TABLE 2308.10.1)	3-8d COMMON (2 1/2"x0.131") 3-3"x0.131" NAILS 3-3" 14 GA STAPLES	TOE NAIL
20. 1" DIAGONAL BRACE TO EACH STUD PLATE	2-8d COMMON (2 1/2"x0.131") 2-3"x0.131" NAILS 3-3" 14 GA STAPLES	FACE NAIL
21. 1"x8" SHEATHING TO EACH BEARING	3-8d COMMON (2 1/2"x0.131")	FACE NAIL
22. WIDER THAN 1"x8" SHEATHING TO EACH BEARING	3-8d COMMON (2 1/2"x0.131")	FACE NAIL
23. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162") 3"x0.131" NAILS 3" 14 GA STAPLES	24" O.C. 16" O.C. 16" O.C.
24. BUILT-UP GIRDER AND BEAMS	20d COMMON (4"x0.192") AT 32" O.C. 3"x0.131" NAILS AT 24" O.C. 3" 14 GA STAPLES AT 24" O.C.	FACE NAIL AT TOP & BOTT. STAGGERED ON OPPOSITE SIDES
	2-20d COMMON (4"x0.192") 3-3"x0.131" NAILS 3-3" 14 GA STAPLES	FACE NAIL AT ENDS AND AT EACH SPLICE
25. 2" PLANKS	16d COMMON (3 1/2"x0.162")	AT EACH BEARING
26. COLLAR TIE TO RAFTER	3-10d COMMON (3"x0.148") 4-3"x0.131" NAILS 4-3" 14 GA STAPLES	FACE NAIL
27. JACK RAFTER TO HIP	4-10d COMMON (2 1/2"x0.148") 4-3"x0.131" NAILS 4-3" 14 GA STAPLES	TOE NAIL
	2-16d COMMON (3 1/2"x0.162") 3-3"x0.131" NAILS 3-3" 14 GA STAPLES	FACE NAIL

1 Common or box nails may be used except where otherwise stated.
2 Nails spaced at 6 inches on center at edges, 12" at intermediate supports except 6 inches at all supports where spans are 48 inches or more. For nailing of wood structural panel and particleboard diaphragms and shear walls, refer to section 2314.4.3 (California Building Code). Nails for wall sheathing may be continuous, box or casing.
3 Common or deformed shank.
4 Common.
5 Deformed shank.
6 Corrosion-resistant siding or casing nails conforming to the requirements of section 2325A.1 (California Building Code).
7 Fasteners spaced 3 inches on center at exterior edges and 6 inches on center at intermediate supports.
8 Corrosion-resistant roofing nails with 7/16-inch-diameter head and 1 1/2 inch length for 1/2-inch sheathing and 1 1/2-inch length for 25/32-inch sheathing conforming to the requirements of section 2325A.1 (California Building Code).
9 Corrosion-resistant staples with nominal 7/16-inch-diameter head and 1 1/2-inch length for 1/2-inch sheathing and 1 1/2 inch length for 25/32-inch sheathing conforming to the requirements of section 2325A.1 (California Building Code).
10 Panel supports at 16 inches [20 inches if strength axis in the long direction of panel, unless otherwise marked]. Casing or finish nails spaced 6 inches on panel edges, 12 inches at intermediate supports.
11 Panel supports at 24 inches. Casing or finish nails spaced 6 inches on panel edges, 12 inches at intermediate supports.

SEE DETAILS FOR METAL STUD WALL CONNECTIONS AND ALSO THE SSMA PRODUCT TECHNICAL PUBLICATION

NAIL SCHEDULE

TESTING AND INSPECTION

ADHERE TO COUNTY OF SAN MATEO REQUIREMENTS SEE SPECIAL INSPECTION FORM

I. MASONRY: PER CBC CHAPTER 21 and CHAPTER 17

II. CONCRETE & SHOTCRETE - C.B.C. CHAPTER 19

A. MATERIALS
1. Portland Cement Tests 1903.2
2. Concrete Aggregates 1903.3
3. Reinforcing Bars 1905.5
4. Batch Plant Inspection

B. CONCRETE & SHOTCRETE QUALITY
1. Proportions of Concrete 1905
2. Strength Tests of Concrete 1905
3. Splitting Tensile Tests 1905

C. CONCRETE & SHOTCRETE INSPECTION CHAPTER 1704
1. Job Site Inspection 1905
2. Batch Plant or Weighmaster Inspection 1905
3. Reinforcing Bar Welding Inspection
4. All Mechanical Splices
5. Bolts Installed in Concrete per 1704

III. STEEL - STATE CHAPTER 22 AND AISC 13TH ADDITION AND PER 1704

A. MATERIALS
1. Structural Steel, Cold Formed Steel 2209 & 2210
2. Material Identification 2109 & 2210 AND AISC A3

B. INSPECTION AND TESTS OF STRUCTURAL STEEL
1. Tests of Structural and Cold Formed Steel
2. Welding Inspection
3. Non-Destructive Weld Testing
4. High Strength Bolting (A325 and A490 bolts)

IV. FOUNDATION - PER 1704

ABREVIATIONS

A.B.	ANCHOR BOLT
B.N.	BOUNDARY NAILING
BM	BEAM
BLG	BLOCK
BLKG	BLOCKING
C.J.	CONSTRUCTION JOINT
CONC	CONCRETE
CONT	CONTINUOUS
COL	COLUMN
CMU	CONCRETE MASONRY UNIT
d	PENNY (NAILS)
DET	DETAIL
DIA	DIAMETER
D.F.	DOUGLAS FIR
DIAG	DIAGONAL
EA.	EACH
E.W.	EACH WAY
E.N.	EDGE NAILING
EQ.	EQUAL
(E)	EXISTING
F.N.	FIELD NAILING
F.J.	FLOOR JOIST
FLR	FLOOR
FTG	FOOTING
GA	GAGE
GALV	GALVANIZED
GLB	GLUE-LAM BEAM
HDR	HEADER
H.D.G.	HOT DIPPED GALVANIZED
INT.	INTERIOR
JST	JOIST
LBS	POUNDS
MECH.	MECHANICAL
MIN.	MINIMUM
(N)	NEW
O.C.	ON CENTER
OPP.	OPPOSITE
P.T.	PRESSURE TREATED
P.T.D.F.	PRESSURE TREATED DOUGLAS FIR
PL.	PLATE
PLYD	PLYWOOD
RR	ROOF RAFTER
SHTG	SHEATHING
SIM.	SIMILAR
SHT	SHEET
S.W.S.	SHEAR WALL SCHEDULE
SQ.	SQUARE
T.O.C.	TOP OF CONCRETE
T.O.S.	TOP OF STEEL
TS	TUBE STEEL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
W.W.M	WELDED WIRE MESH

OTHER ITEMS IN REQUIRING SPECIAL INSPECTIONS
a. SHOP AND FIELD WELDING OF STRUCTURAL STEEL:
i. IDENTIFY ON THE STRUCTURAL PLANS THE INSPECTION POINTS AND FREQUENCIES REQUIRED FOR THE FOLLOWING:
1. VISUAL WELDING INSPECTION
2. NONDESTRUCTIVE TESTING OF WELDS
3. INSPECTION OF BOLTING
4. OTHER INSPECTIONS
b. WOOD FRAMING: PERIODIC INSPECTION OF DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS INCLUDING HOLDOWNS OF THE SEISMIC FORCE RESISTING SYSTEM WHERE CBC 1707.3
f. NON-SHRINK GROUT
g. MASONRY

DEFERRED SUBMITTALS AND SUBMITTALS:
WOOD ROOF TRUSSES ARE A DEFERRED ITEM
WHEN SUBMITTED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, DEFERRED SUBMITTAL DOCUMENTS SHALL BEAR A NOTATION INDICATING THE DOCUMENTS HAVE BEEN REVIEWED BY THE REGISTERED DESIGN PROFESSIONAL AND HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING

GEOFFREY CLIFFORD S.E. IS THE THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE FOR REVIEWING SUBMITTALS

OBSERVATIONS BY THE STRUCTURAL ENGINEER

BCA STRUCTURAL ENGINEERING INC, WILL PROVIDE PERIODIC OBSERVATIONS OF THE CONSTRUCTION AND WRITTEN REPORTS TO THE BUILDING DEPARTMENT. THESE VISITS WILL OCCUR BUT ARE NOT LIMITED TO AT THE FOLLOWING ITEMS.

1. REINFORCING FOR SLAB.
2. FOOTING REINFORCING.
3. FINAL FRAMING OBSERVATIONS OR AS REQUESTED.
4. ORIENTATION AND PLACEMENT OF CONNECTED COMPONENTS.

THE STRUCTURAL ENGINEER OF RECORD SHALL A) REPORT ANY OBSERVED DEFICIENCIES TO THE OWNER, CONTRACTOR, AND BUILDING OFFICIAL, AND B) SUBMIT A FINAL REPORT DOCUMENTING SITE VISITS AND OBSERVATIONS, NOTING ANY DEFICIENCIES THAT CORRECTIVE WORK HAS BEEN COMPLETED, AND THAT CONSTRUCTION PROCEEDED IN ACCORDANCE WITH THE APPROVED PLANS, SPECIFICATIONS, AND APPLICABLE CODED AND REGULATIONS.

GENERAL NOTES

A. GENERAL

1. ALL WORK SHALL CONFORM TO CURRENT CALIFORNIA BUILDING CODES, FEDERAL, STATE AND LOCAL CODE REQUIREMENTS, LAWS AND ORDINANCES.

2. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND WHAT IS SHOWN ON THE DRAWINGS BEFORE PROCEEDING WITH THE WORK.

3. ANY OMISSIONS OR CONFLICTS BETWEEN THE ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE ANY RELATED WORK IS STARTED.

4. SHOP DRAWINGS REQUIRED BY THE SPECIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION, AND ALLOW REASONABLE TIME FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING THE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING. BRACING AND GUYS IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES. ANY DEVIATIONS MUST BE APPROVED PRIOR TO ERECTION.

6. MECHANICAL EQUIPMENT MUST BE FIRMLY ATTACHED TO THE STRUCTURE. ALL MECHANICAL EQUIPMENT INTENDED TO BE SUPPORTED ON, OR FROM THE STRUCTURE, UNLESS INDICATED WITHIN STRUCTURAL DRAWINGS, SHALL BE SUBMITTED TO THE ARCHITECT FOR ENGINEER'S APPROVAL PRIOR TO INSTALLATION.

7. ALL CONDITIONS NOT CLEARLY SHOWN OR DETAILED SHALL BE OF THE SAME TYPE AND CHARACTER AS THOSE SHOWN FOR SIMILAR CONDITIONS.

B. FOUNDATION

1. FOUNDATION DESIGN IS BASED ON A REPORT BY BAGG ENGINEERS PROJECT No COUSM-16-01, ISSUE DATE MAY, 4 2016 DESIGN CRITERIA DEEP CONVENTIONAL FOUNDATION SOIL BEARING CAPACITY 1500 PSF.

2. SLABS SHALL BE SUPPORTED ON UNIFORM SUBGRADE MATERIAL SEE REPORT AND DETAILS FOR ADDITIONAL INFORMATION.

3. FOUNDATION EXCAVATIONS SHALL BE EXAMINED AND CERTIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF ANY REINFORCING STEEL OR CONCRETE.

C. CONCRETE

1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS

2. CONCRETE SHALL BE REGULAR WEIGHT HARD ROCK TYPE (150#/CF). AGGREGATE SHALL CONFORM TO ASTM C33, U.N.O..

3. CEMENT SHALL CONFORM TO ASTM C150, TYPE 1 OR 2.

4. PLACEMENT OF CONCRETE SHALL BE IN CONFORMANCE WITH ACI 318.

5. CONCRETE SHALL BE MACHINE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C-94. SUBMIT MIX DESIGN TO THE ARCHITECT FOR APPROVAL PRIOR TO PLACING CONCRETE.

6. PROVIDE MINIMUM CLEAR COVER OF CONCRETE OVER REINFORCING AS FOLLOWS:
A) AGAINST EARTH FORM - 3 INCHES
B) EXPOSED TO EARTH BUT POURED AGAINST FORM - 2 INCHES

D. REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL CONFORM TO ASTM SPECIFICATION A615 GRADE 60 FOR # 5 AND LARGER BARS AND GRADE 40 FOR # 3 AND # 4.

2. ALL REINFORCING STEEL SHALL BE LAPPED AS NOTED BELOW. SEE 7/S1.2 UNLESS OTHERWISE NOTED IN PLANS. SPLICES SHALL BE LOCATED AS DETAILED IN THE PLANS. STAGGER ALL LAPS AND SPLICES.

3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A82 AND A185.

4. ANCHOR BOLTS, DOWELS AND OTHER EMBEDDED ITEMS SHALL BE SECURELY TIED IN PLACE BEFORE CONCRETE IS PLACED, USE CUT THREAD ANCHOR BOLTS ONLY.

E. STRUCTURAL AND MISCELLANEOUS STEEL

1. FABRICATION AND ERECTION TO BE IN ACCORDANCE WITH LATEST AISC SPECIFICATIONS INCLUDING SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS.

2 STRUCTURAL STEEL MEMBERS:

ASTM A992, GRADE 50 FOR ROLLED SHAPES AND ASTM A36 PLATES
ASTM A500, GRADE B. FOR TUBE STEEL (TS & HSS)
ASTM A53, GRADE B FOR STRUCTURAL PIPES
ANCHOR BOLTS ASTM A307, U.O.N ON DRAWINGS.
BOLTS ASTM A325N, U.O.N ON DRAWINGS.
WELDING ELECTRODES E-70XX

ALL STEEL EXPOSED TO WEATHER SHALL BE GALVANIZED.

3. WELDING TO BE IN ACCORDANCE WITH THE MOST CURRENT AWS SPECIFICATIONS. WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS USING E-70XX ELECTRODES.
THE INSPECTION OF WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 6 OF THE AWS STRUCTURAL WELDING CODE - STEEL, D1.1. NON DESTRUCTIVE TESTING SHALL BE BY (UT) ULTRASONIC OR (MT) MAGNETIC PARTICAL TESTING.

4. ALL PLATES, ETC., TO BE BOLTED TO CONCRETE ELEMENTS SHALL NOT BE FABRICATED UNTIL THE BOLTS HAVE BEEN LOCATED IN THE FIELD.

5. ALL HIGH STRENGTH BOLTS SHALL BE ASTM A325N TYP. THREADS MAY BE INCLUDED IN THE SHEAR PLANES. SPECIAL INSPECTIONS ARE REQUIRED FOR ALL HIGH STRENGTH BOLTS. ANCHOR BOLTS AT MOMENT FRAMES SHALL BE MADE FROM F1554 GRADE 105 STEEL

6. STEEL TO BE SHOP PRIMED, EXCEPT WHERE EMBEDDED IN CONCRETE OR AREAS TO BE WELDED.

7. FABRICATOR SHALL IDENTIFY MATERIALS PROCEDURES ETC PER AISC PROVISION M5.1

8. WELDED STEEL STUDS SHALL CONFIRM WITH ICC 2614 OR APPROVED EQUAL

F. WOOD FRAME CONSTRUCTION

1. GENERAL WOOD FRAMING: WOOD FRAMING THROUGHOUT THE BUILDING SHALL BE CONSTRUCTED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE (2013) AND THE STANDARD PRACTICES RECOMMENDED BY AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND WCLA GRADING. FOR NAILING SEE 2304.9.1. BOLTS IN WOOD FRAMING SHALL BE STANDARD MACHINE BOLTS WITH SQUARE 2x2x3/16 WASHERS.
EXCEPT SILL PLATES SHALL HAVE PLATE 1/4x3x3 WASHER.

2. JOIST HANGER AND MISCELLANEOUS CONNECTORS:
MEMBERS NOT RESTING ON, OR FRAMED OVER THEIR SUPPORT SHALL BE SUPPORTED BY MEANS OF "SIMPSON STRONG-TIE" JOIST HANGERS. HANGERS SHALL COMPLY WITH AND BE NAILED IN ACCORDANCE WITH MANUFACTURER'S ICC APPROVALS.

3. WOOD PLATES: BEARING DIRECTLY UPON CONCRETE SHALL BE PRESSURE TREATED D.F.

4. UNLESS OTHERWISE NOTES ON DRAWINGS OR IN SPECIFICATIONS FRAMING MEMBERS SHALL HAVE THE FOLLOWING GRADING:
A) ALL BEAMS, COLUMNS, POSTS AND CANTILEVER JOISTS AT BALCONIES: DOUGLAS FIR, GRADE MARK - NO. 1.
B) FRAMING: JOISTS, STUDS, PLATES, RAFTERS: DOUGLAS FIR, GRADE MARK - NO. 2.

5. PLYWOOD SHEATHING: SHALL BE DFPA CDX OR OSB OR EQUAL UNLESS OTHERWISE NOTED ON DRAWINGS; SOFTWOOD PLYWOOD USED STRUCTURALLY SHALL CONFORM TO PRODUCT STANDARDS PS 1-95 AND SHALL BEAR THE DFPA GRADE - TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION. ROOF SHEATHING SHALL BE 5/8 INCHES THICK (32/16), 5 PLY. FLOOR SHEATHING SHALL BE 3/4 INCHES THICK (48/24), TONGUE AND GROOVED AND SHALL BE GLUED AND NAILED. WALL SHEATHING SHALL BE A MIN. OF 1/2 INCHES THICK, U.N.O.

6. FRAMING CONTRACTOR SHALL PROTECT HIS WORK FROM ANY DAMAGES DUE TO WEATHER CONDITIONS AT TIME OF CONSTRUCTION.

G. MISCELLANEOUS MATERIALS

1. PSL BEAMS BY TRUS JOIST Fb = 2900 PSI FV = 290 PSI E= 2,000 KSI OR EQUAL PRODUCT: BOISE CASCADE - VERSA LAM 3100, ANTHONY - POWER BEAM, GEORGIA PACIFIC GP LAM 2.0, LOUISIANA PACIFIC GANGLAM 2.0 ES 2950 OR 3100, ROSBORO - ROBORO BIGBEAM. LVL BY TRUS JOIST Fb = 2600 PSI FV = 285 PSI E= 1,900 KSI
2. GLULAM BEAMS 24F V-4 AT SIMPLY SPANS OR 24F-V8 AT CONTINUOUS SPANS TENSION LAMS AT TOP & BOTTOM. BEAM SHALL BE STAMPED WITH APPROVAL STAMP. PROVIDE ONE (1) FACTORY COAT OF MOISTURE SEALER, AND ALL ENDS AFTER CUTTING, COATED WITH END SEALER.
3. WOOD TRUSSES DOUGLAS FUR LARCH GRADE AS REQUIRED BY TRUSS DESIGN.
4. LAG SCREWS PER ANSI B18.2.1
5. NON SHRINK GROUT SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI

H. NAIL SCHEDULE

1. WOOD MEMBERS SHALL BE CONNECTED WITH NAILING INDICATED IN NDS-SDPSW TABLE 4.3A (WALL), TABLE 4.2A (ROOF) & CBC 2304.9.1 FASTENING SCHEDULE UNLESS GREATER SIZES AND NUMBER OF NAILS ARE SHOWN OR NOTED ON DRAWINGS; NAILS EXPOSED TO WEATHER SHALL BE GALVANIZED; NAILS SHALL BE COMMON WIRE NAILS; HOLES FOR NAILS SHALL BE PROVIDED WHERE THE WOOD MEMBERS TEND TO SPLIT; WOOD MEMBERS SHALL BE REPLACED AND REMOVED FROM JOB PROMPTLY. SHORT PLYWOOD NAILS FOR EQUIVALENT SHEAR VALUE MAY BE USED. SEE PLANS FOR NAIL SPACING. ROOF SHEATHING 8d AT 6 INCHES O.C. AT SUPPORTED EDGES. 8d AT 12 INCHES O.C. INTERMEDIATE SUPPORTS. FLOOR SHEATHING 8d AT 6 INCHES O.C. AT BOUNDARIES AND PANEL EDGES AND 8d AT 10 INCHES O.C. AT INTERMEDIATE SUPPORTS. PLYWOOD WALL SHEATHING SHALL BE NAILED PER SHEAR WALL SCHEDULE AT SHEAR WALLS, AND AT A MINIMUM OF 8d AT 6 INCHES O.C. ALL OTHER EDGES.

2. AT PRESSURE TREATED LUMBER USE HOT-DIPPED GALVANIZED, STAINLESS STEEL, SILICON BRONZE, OR COPPER. CBC 2304.9.5

K. MASONRY

1. MASONRY UNITS SHALL BE LIGHTWEIGHT OPEN END UNITS CONFORMING TO ASTM C90, GRADE N-11 ALSO CONFORMING TO ASTM C-90. WITH A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI. FOR fm OF 1500 PSI PER CBC 2013 TABLE 2105.2.2.1.2

2. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS. GROUT SHALL FLOW WITHOUT SEGREGATION AND SHALL CONFORM TO CBC SECTION 2103.13 & CBC SECTION 2105.2.2.1.2(3)

3. MORTAR SHALL BE TYPE "S" AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI AT 28 DAYS AND SHALL CONFORM TO ASTM C270 AND SHALL ALSO CONFORM TO CBC SECTION 2103.9 & CBC TABLE 2105.2.2.1.2

4. ALL CELLS SHALL BE SOLIDLY FILLED WITH GROUT PER CBC 2013 TABLE 2105.2.2.1.2 CONSOLIDATE ALL GROUTING OPERATIONS BY USE OF A VIBRATOR.

G. STEEL STUDS

1. STEEL STUDS & JOISTS SHALL BE C-STUDS WITH A MINIMUM YIELD OF 33,000 PSI FOR 18 AND 20 GAGE, AND 50,000 FOR 14 AND 16 GAGE. STUDS SHALL BE OF THE SIZE, GAGE AND SPACING SHOWN ON THE DRAWINGS IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS ADEQUATE FOR DEVELOPMENT OF FULL MOMENT CAPACITY OF THE STUDS. FOR LOAD STUDS, TRACK SHALL BE OVERSIZE TO PROVIDE FULL STUDS BEARING. SCREWS SHALL BE ELCO DRIL-FLEX, ICC 3294, OR APPROVED EQUAL.
PROVIDE G-90 GALVANIZING ON ALL METAL STUDS AND TRACKS

ICC NUMBERS FOR STUDS SHALL BE ER 4943 OR ES 4782 OR APPROVED EQUAL

AT BATHROOM, KITCHEN AND SHOWER AREAS USE STAINLESS STEEL STUDS AND TRACKS

HAT CHANNELS AT CONCRETE WALL FURRING SHALL BE BE 150F125-30 AT 16" O.C. ATTACHED WITH HILTI (OR EQUAL) POWDER DRIVEN FASTENERS 0.145x 1" LONG AT 16" O.C. STAGGERED.
AT CONCRETE WALL STEEL REINFORCING PLATES COPE BOTTOM OF HAT CHANNEL AND TACK WELD AS REQUIRED.

ROOF MATERIAL WEIGHT SHALL NOT EXCEED 5 PSF INSTALLED

DESIGN INFORMATION

ROOF LOAD
DL = 15 PSF
LL = 20 PSF

FLOOR LOAD
DL = SLAB ON GRADE
LL = 40 PSF

CODE: 2013 CBC ASCE 7-10

SEISMIC DESIGN CATAGORY = E
I = 1.00 LESS THAN 300 OCCUPANTS
R = 4
Fa = 1 Fv = 1.5
Ss = 1.615 S1 = 0.742
Sms = 1.615 Sds = 1.077 Sd1 = 0.742
SITE CLASS = D OR E
$V = \frac{SDS \times W}{R/I} F = 0.269W$
V = 0.192 W WORKING STRESS

ANALYSIS PROCEDURE
EQUIVALENT LATERAL FORCE PROCEDURE

SEISMIC FORCE RESISTING SYSTEM
CONCRETE SHEAR WALLS

WIND LOAD = 110 MPH, EXP C, λ=1.00

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Exp : 3/31/2017
STRUCTURAL
STATE OF CALIFORNIA

BCA J No. 15445 8/15/2016

• PROJECT •

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City, CA 94063

• TITLE •

STANDARD DETAILS

SCALE : NOTED

• REVISIONS •

No.	Date	Notes
	6-17-16	BUILDING SUBMITTAL 1
2	8-15-16	PC#1/ADD #3

• JOB: 2015.2801

• DATE: 12/8/2015

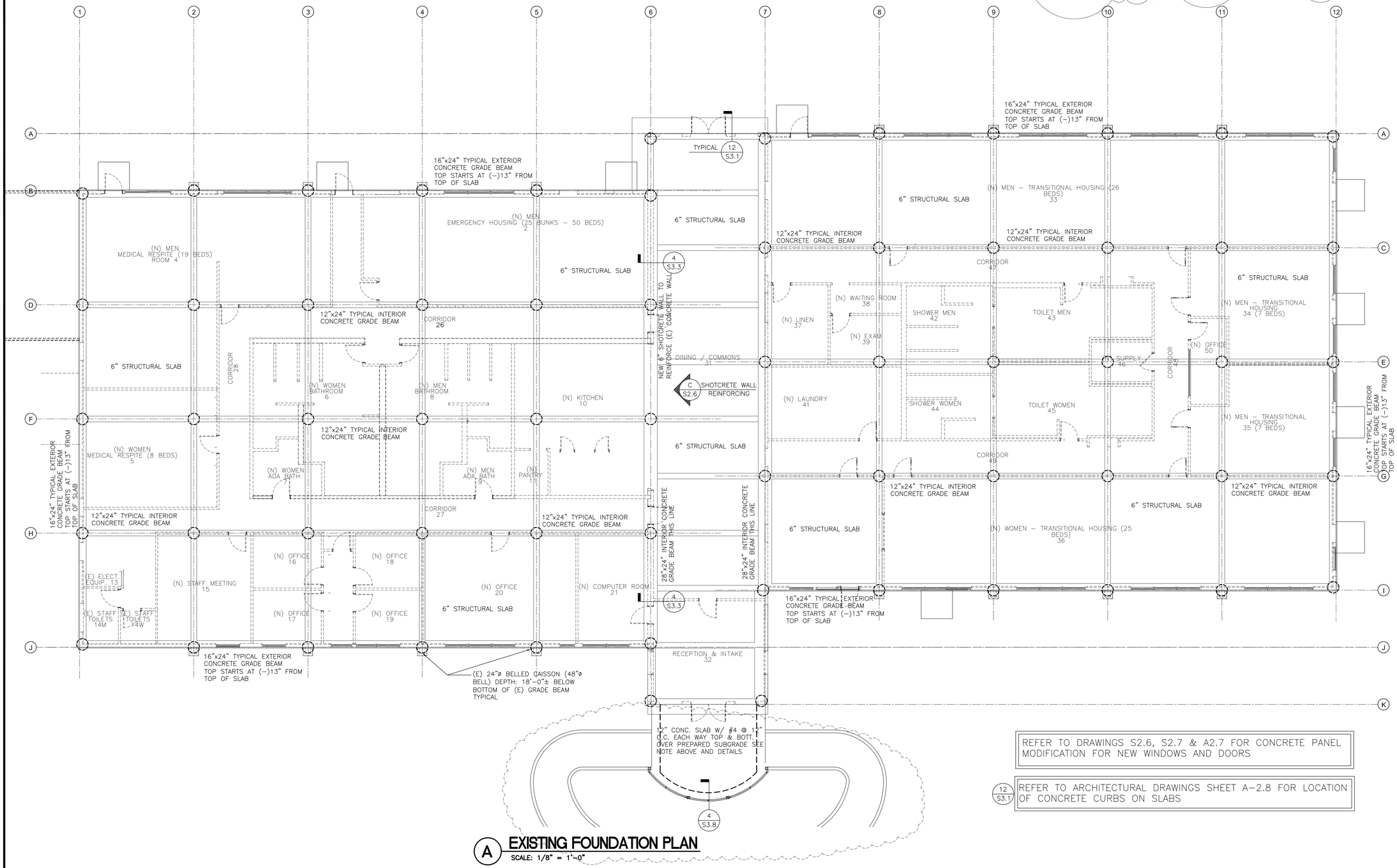
• DWG #: S1

INT WALL STUDS: 362S162-43 (33 KSI)
& 550S162-43 (50 KSI) @ 16" O.C. U.N.O. SEE ARCHITECTURAL DRAWINGS FOR SIZES AND LOCATIONS
TRACKS 362T150-43 & 550T150-43
PROVIDE STAINLESS STEEL STUDS AND TRACKS AT KITCHEN AND BATHROOM AND SHOWER AREAS
SEE ARCHIT DRAWINGS FOR ADDITIONAL INFORMATION
SEE DRAWING S3.1 FOR TYPICAL STUD DETAILS

SLAB MODIFICATION FOR NEW PLUMBING

10 / S3.2

1. THE EXISTING FOUNDATION CONSISTS OF A STRUCTURAL SLAB NOTED ON THE ORIGINAL DESIGN DRAWING AS 6" THICK THE ACTUAL THICKNESS SHALL BE FIELD VERIFIED AND MATCHED IN THICKNESS. CUT REINFORCING SHALL BE REPLACED IN KIND REFER ORIGINAL DESIGN DRAWING AND FIELD VERIFY. DOCUMENT CUT BARS AND REPLACE WITH THE EXACT NUMBER, SIZE AND LOCATION.
2. SAW CUTTING SHALL STOP AT LEAST 6" FROM THE FACE OF THE EXISTING CONCRETE GRADE BEAM.
3. IF POSSIBLE RUN PIPES UNDER THE GRADE BEAMS IF THAT IS NOT POSSIBLE CORE DRILL EXISTING GRADE BEAM OR UTILIZE THE EXISTING HOLES. BEFORE CORE DRILLING, ALL REINFORCING SHALL BE LOCATED BY THE SPECIAL INSPECTOR AND THE LOCATION OF THE HOLE SHALL BE POSITIONED SO AS NOT TO CUT ANY OF THE EXISTING REINFORCING BARS.
4. IF THE SLAB NEEDS TO BE REMOVED ABOVE THE EXISTING GRADE BEAM CARE SHALL BE TAKEN SO AS NOT TO DAMAGE THE EXISTING GRADE BEAM BARS. SLAB BARS CAN BE REPLACE IF NECESSARY AS NOTED ABOVE.



A **EXISTING FOUNDATION PLAN**
SCALE: 1/8" = 1'-0"

REFER TO DRAWINGS S2.6, S2.7 & A2.7 FOR CONCRETE PANEL MODIFICATION FOR NEW WINDOWS AND DOORS

12 / S3.1 REFER TO ARCHITECTURAL DRAWINGS SHEET A-2.8 FOR LOCATION OF CONCRETE CURBS ON SLABS

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BCA J. No. 15445
8/15/2016

• PROJECT •

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City, CA 94063

• TITLE •

EXISTING FOUNDATION PLAN

SCALE : 1/8"=1'-0"

• REVISIONS •

No.	Date	Notes
	6-17-16	BUILDING SUBMITTAL 1
2	8-15-16	PC#1/ADD #3

• JOB: 2015.2801

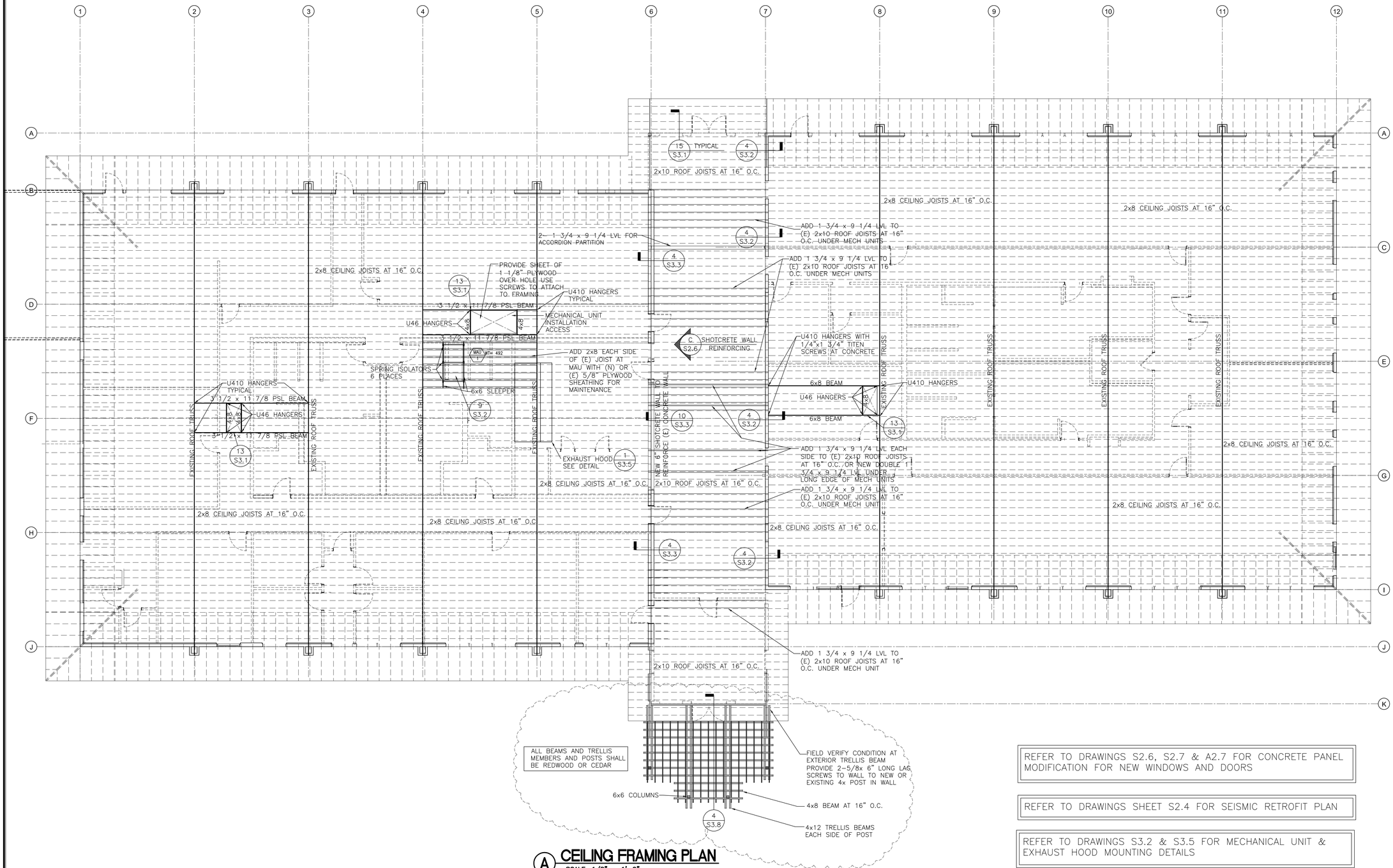
• DATE: 12/8/2015

• DWG #: S2.1

INT WALL STUDS: 362S162-43 (33 KSI)
& 550S162-43 (50 KSI) @ 16" O.C. U.N.O. SEE ARCHITECTURAL DRAWINGS FOR SIZES AND LOCATIONS
TRACKS 362T150-43 & 550T150-43
PROVIDE STAINLESS STEEL STUDS AND TRACKS AT KITCHEN AND BATHROOM AND SHOWER AREAS
SEE ARCHIT DRAWINGS FOR ADDITIONAL INFORMATION
SEE DRAWING S3.1 FOR TYPICAL STUD DETAILS

CEILING FRAMING NOTES

CEILING JOISTS USE:
600S162-33 AT 16" O.C. FOR SPANS UP TO 15'-0" (15 / S3.1)
600S162-43 AT 16" O.C. FOR SPANS UP TO 18'-0"
800S162-43 AT 16" O.C. FOR SPANS UP TO 24'-0" (16 / S3.1)



A CEILING FRAMING PLAN
SCALE: 1/8" = 1'-0"

REFER TO DRAWINGS S2.6, S2.7 & A2.7 FOR CONCRETE PANEL MODIFICATION FOR NEW WINDOWS AND DOORS

REFER TO DRAWINGS SHEET S2.4 FOR SEISMIC RETROFIT PLAN

REFER TO DRAWINGS S3.2 & S3.5 FOR MECHANICAL UNIT & EXHAUST HOOD MOUNTING DETAILS

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• TITLE •

CEILING FRAMING PLAN

SCALE : 1/8"=1'-0"

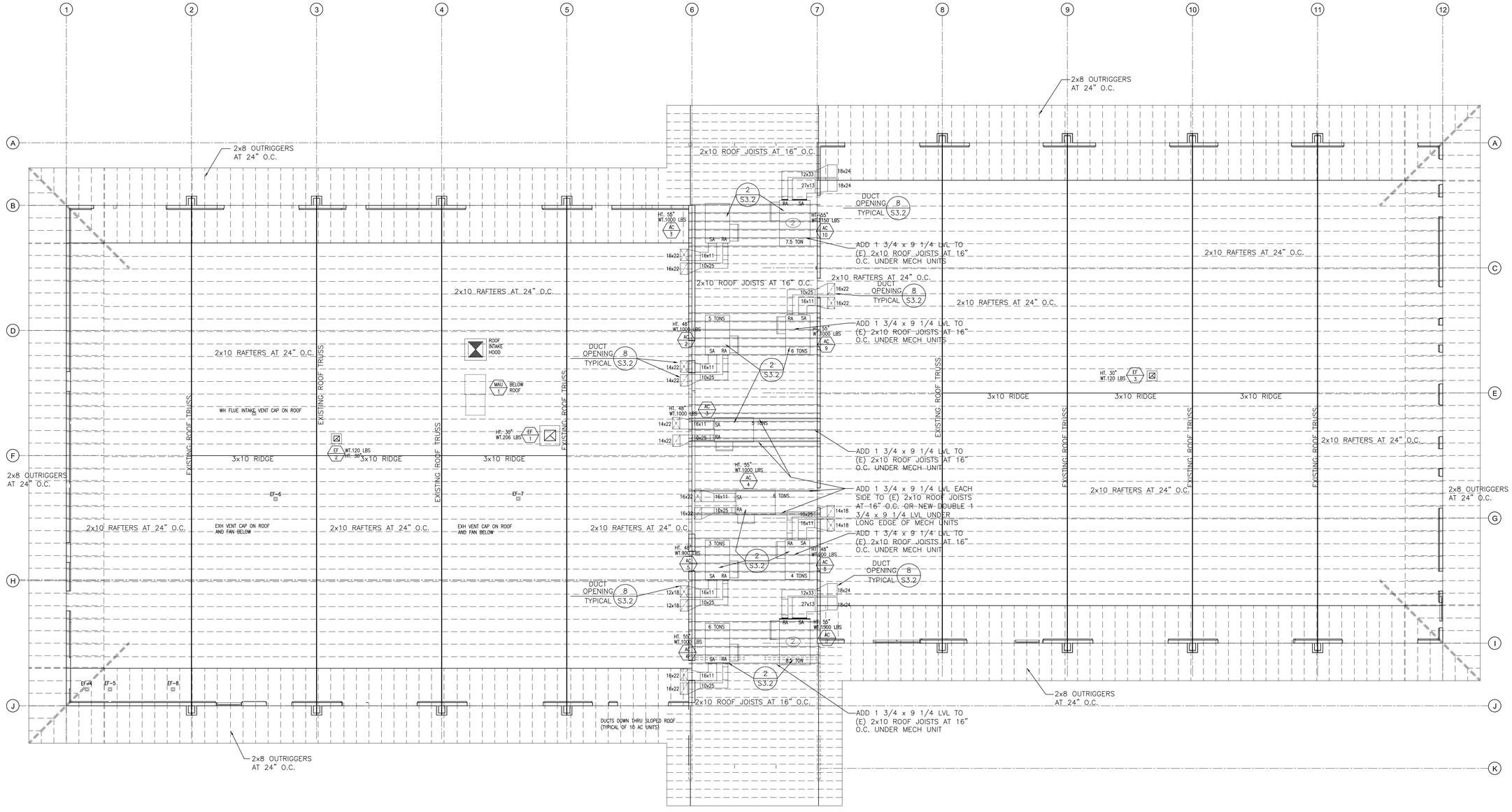
• REVISIONS •

No.	Date	Notes
	8-17-16	BUILDING SUBMITTAL 1
2	8-15-16	PCI#1/ADD #3

• JOB: 2015.2801

• DATE: 12/8/2015

• DWG #: S2.2



REFER TO DRAWINGS S3.2 FOR MECHANICAL UNIT MOUNTING DETAILS AND DUCT OPENING DETAIL

REFER TO DRAWINGS SHEET S2.4 FOR SEISMIC RETROFIT PLAN

A ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

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STRUCTURAL
STATE OF CALIFORNIA

BCA J· No. 15445

8/15/2016

• PROJECT •

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City, CA 94063

• TITLE •

ROOF FRAMING PLAN

SCALE : 1/8"=1'-0"

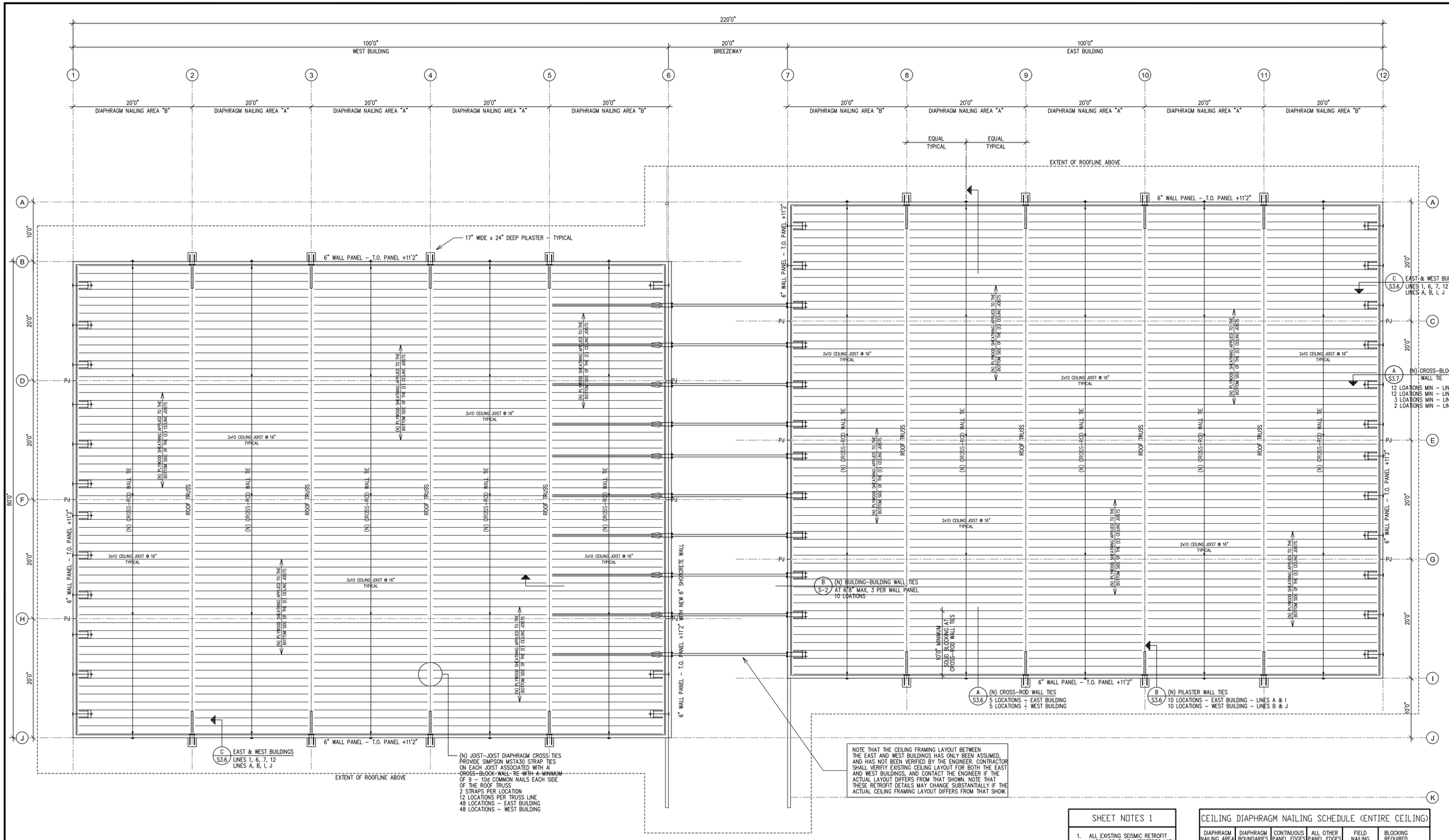
• REVISIONS •

No.	Date	Notes
	6-17-16	BUILDING SUBMITTAL 1
2	8-15-16	PC#1/ADD #3

• JOB: 2015.2801

• DATE: 12/8/2015

• DWG #: S2.3



SEISMIC DESIGN LOADING

ELEMENTS OF STRUCTURES - WALL ANCHORAGE SYSTEMS

CRITERIA: 2013 CALIFORNIA BUILDING CODE (ASCE 7-10)

LOCATION: LATITUDE = 37.49, LONGITUDE = 122.22.

SOILS: SITE CLASS D.

Fpusd	= 0.4 Sds ka Ie Wp		ULTIMATE STRENGTH DESIGN, Eqn 12.11-1
	= 0.2 ka Ie Wp		MINIMUM (PER LINER FOOT OF WALL)
Sds	= 1.077		DESIGN EARTHQUAKE SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, PER SECTION 11.4.4 & USGS WEBSITE.
ka	= 1.0 + Lf/100		DIAPHRAGM FLEXIBILITY AMPLIFICATION FACTOR
	= 2.00		DEFAULT VALUE, UNLESS DETERMINED OTHERWISE
Lf	=		DIAPHRAGM SPAN BETWEEN LATERAL LOAD RESISTING ELEMENTS
Ip	= 1.00		IMPORTANCE FACTOR (TABLE 11.5-1).
Wp	=		WALL WEIGHT TRIBUTARY TO THE WALL ANCHOR.
Fpusd	= 0.862 x Wp		ULTIMATE STRENGTH DESIGN, Eqn 12.11-1
	= 0.400 x Wp		MINIMUM
Fpasd	= 0.615 x Wp		ALLOWABLE STRESS DESIGN (= Fpusd /1.4)
	= 0.286 x Wp		MINIMUM
ASI	= 1.00		ALLOWABLE STRESS INCREASE, MAXIMUM.
LDF	= 1.60		LOAD DURATION FACTOR, WOOD ELEMENTS.
LF	= 1.40		LOAD FACTOR, STEEL ELEMENTS, SECTION 12.11.2.2.2.

NEW CEILING DIAPHRAGM AT UNDER SIDE OF CEILING JOISTS

COVERS THE ENTIRE CEILING FROM GRID LINES (1) TO (6) THROUGH (B) TO (J) AND GRID LINES (7) TO (12) THROUGH (A) TO (I)

REFERENCES

SHEETS 1 TO 12, ALL DATED APRIL 5, 1966 (EXCEPT SHEET 1, WHICH IS DATED JULY 16, 1966), PREPARED BY THE COUNTY OF SAN MATEO'S ARCHITECTURAL AND ENGINEERING DIVISION, FOR THE COUNTY OF SAN MATAEO WORK FOURLOUGH FACILITY.

ROOF FRAMING PLAN

SCALE 1/8" = 1'- 0"

SHEET NOTES 1

1. ALL EXISTING SEISMIC RETROFIT HARDWARE THAT INTERFERES WITH THE INSTALLATION OF NEW SEISMIC RETROFIT HARDWARE SHALL BE REMOVED
2. QUANTITIES SHOWN ARE FOR INFORMATION PURPOSES ONLY AND SHALL NOT BE RELIED UPON FOR BIDDING PURPOSES
3. ALL ITEMS SHOWN ARE EXISTING (E), UNLESS NOTED NEW (N), OR OTHERWISE
4. ALL EXISTING INFORMATION SHOWN HAS BEEN DERIVED FROM A LIMITED VISUAL WALK-THROUGH SURVEY OF THE BUILDING, AND THE REFERENCES NOTED.

CEILING DIAPHRAGM NAILING SCHEDULE (ENTIRE CEILING)

DIAPHRAGM NAILING AREA	DIAPHRAGM BOUNDARIES	CONTINUOUS PANEL EDGES	ALL OTHER PANEL EDGES	FIELD NAILING	BLOCKING REQUIRED
A	8d @ 4"	8d @ 6"	8d @ 6"	8d @ 10"	YES
B	8d @ 4"	8d @ 4"	8d @ 6"	8d @ 10"	YES
C	8d @ 2"	8d @ 2"	8d @ 4"	8d @ 10"	YES
D	8d @ 2"	8d @ 2"	8d @ 3"	8d @ 10"	YES

1. ALL NAILS SHALL BE STANDARD LENGTH "COMMON" WIRE NAILS.
2. ALL BLOCKING TO BE EITHER 3x4 OR 4x4 BLOCKING.
3. FRAMING WIDTH SHALL BE 3x OR GREATER WHERE NAILING AT PLYWOOD PANEL EDGES IS 3" OR LESS.
4. PLYWOOD SHEATHING SHALL BE 1/2" THICK - 5 PLY - CDX PLYWOOD.
5. PLYWOOD SHEETS SHALL BE STAGGERED, AND ORIENTATED WITH THE LONG DIRECTION PERPENDICULAR TO THE RUN OF THE CEILING JOISTS.

STATEMENT OF PURPOSE

THE PURPOSE OF THE SEISMIC RETROFIT MODIFICATIONS ASSOCIATED WITH THIS SHEET AND ASSOCIATED SET OF PLANS IS ONLY TO INCREASE THE CAPACITY OF VARIOUS LATERAL LOAD RESISTING ELEMENTS OF THE NOTED BUILDING. ALL NEW STRUCTURAL ELEMENTS ARE TO BE DESIGNED PER THE STANDARDS SET FORTH IN THE 2013 EDITION OF THE CALIFORNIA BUILDING CODE. THESE MODIFICATIONS ALONE WILL NOT NECESSARILY BRING THE OVERALL BUILDING INTO COMPLIANCE WITH THE SEISMIC STANDARDS SET FORTH IN THIS BUILDING CODE, AND WILL NOT NECESSARILY PREVENT DAMAGE FROM OCCURRING IN THIS BUILDING DURING AN EARTHQUAKE. THESE MODIFICATIONS ARE NOT NECESSARILY TO BE CONSIDERED A COMPLETE SEISMIC RETROFIT OF THE BUILDING.

CJW ARCHITECTURE
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SCALE : 1/8"=1'-0"

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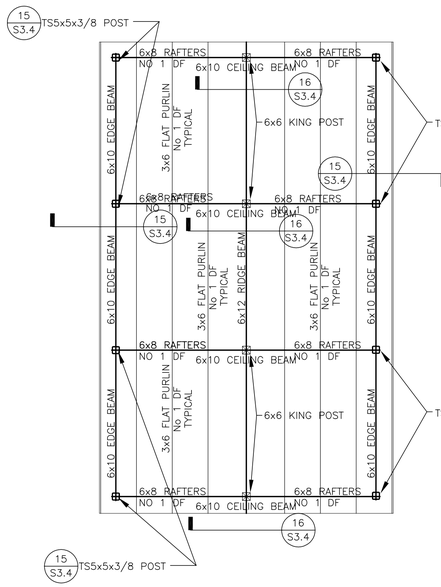
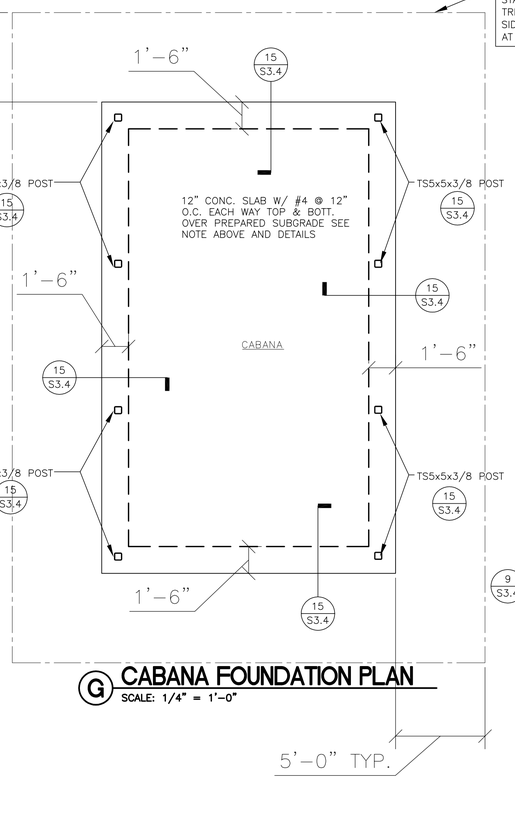
• JOB: 2015.2801

• DATE: 12/8/2015

• DWG #: S2.4

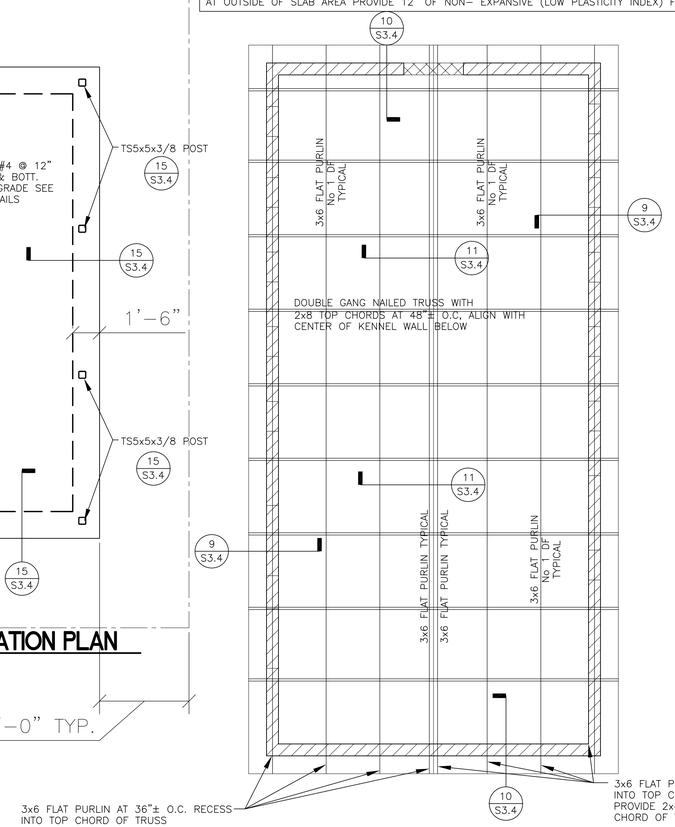


F CABANA ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

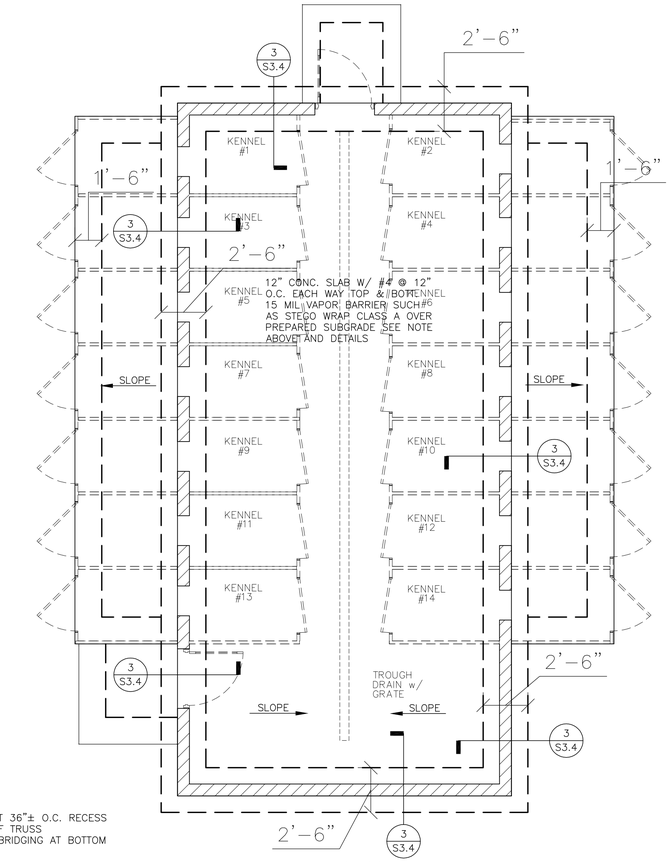


G CABANA FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

AREA OF SUB EXCAVATION AND ENGINEERED FILL EXTENDED 5'-0"± OUT SIDE OF BUILDING FOOTPRINT.
STARTING WITH A LAYER OF TENCATE MIRAFI N160 THEN A LAYER GEOGRID SUCH AS TENSAR TRIAX TX130S PER SOILS REPORT THEN 24" THICK LAYER OF 1" CRUSHED ROCK TO UNDER SIDE OF 12" SLAB.
AT OUTSIDE OF SLAB AREA PROVIDE 12" OF NON- EXPANSIVE (LOW PLASTICITY INDEX) FILL

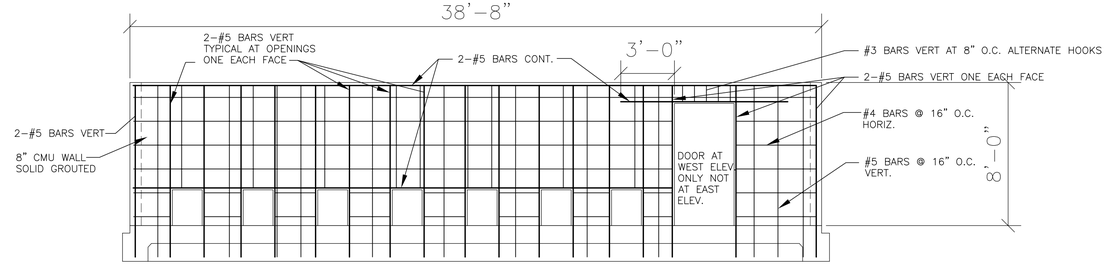


A KENNEL ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"



B KENNEL FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

FOUNDATION: DEEP FOUNDATION BELOW MAT SLABS IF ANY TO BE DETERMINED ONCE GEOTECHNICAL REPORT IS AVAILABLE



C CMU REINFORCING EAST AND WEST ELEVATION
SCALE: 1/4" = 1'-0"

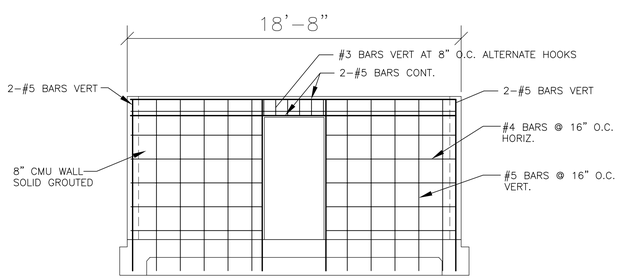
KENNEL ROOF FRAMING: ENGINEERED TRUSSES @ 48"±o.c. MAX.

ROOF FRAMING NOTES

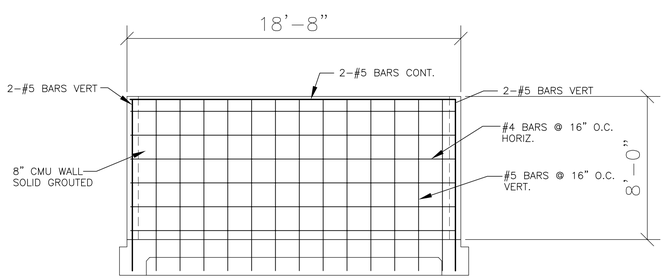
1. ROOF SHEATHING: 20 GAGE CORRUGATED METAL ROOFING NAILING: ALL MEMBERS = #8 SCREWS @ 6" O.C.
2. TRUSSES SHALL BE SPACED @ 48" O.C. TRUSS CALCULATIONS, FRAMING PLANS, AND SHOP DRAWINGS SHALL BE PREPARED BY THE MANUFACTURER AND SUBMITSED TO THE ENGINEER AND THE BUILDING DEPARTMENT FOR REVIEW BEFORE FABRICATION.

PREMANUFACTURED TRUSS LOADS	
TOP CHORD	
DL	10 PSF
LL	20 PSF
BOTTOM CHORD	
DL	5 PSF
*LL	10 PSF
LATERAL LOAD AT TIE TRUSSES	
SL	4000 LBS

* NOT CONCURRENT W/ TOP CHORD LIVE LOAD



D CMU REINFORCING NORTH ELEVATION
SCALE: 1/4" = 1'-0"



E CMU REINFORCING SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

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CABANA & KENNEL FRAMING PLANS & WALL REINF ELEV'S

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

• REVISIONS •

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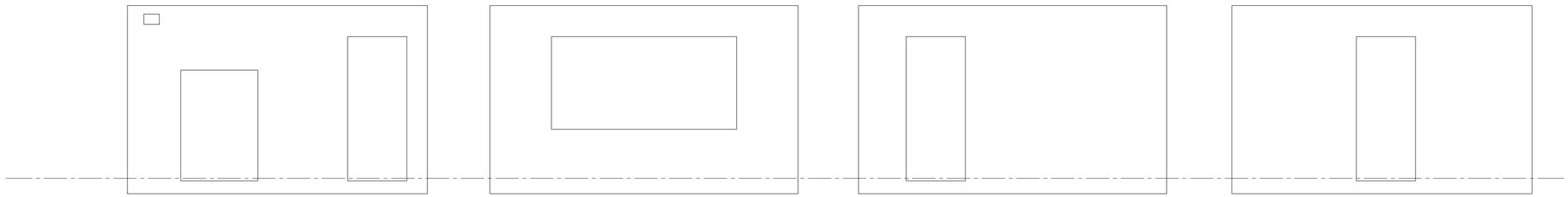
2	8-15-16	PC#1/ADD #3

• JOB: 2015.2801

• DATE: 12/8/2015

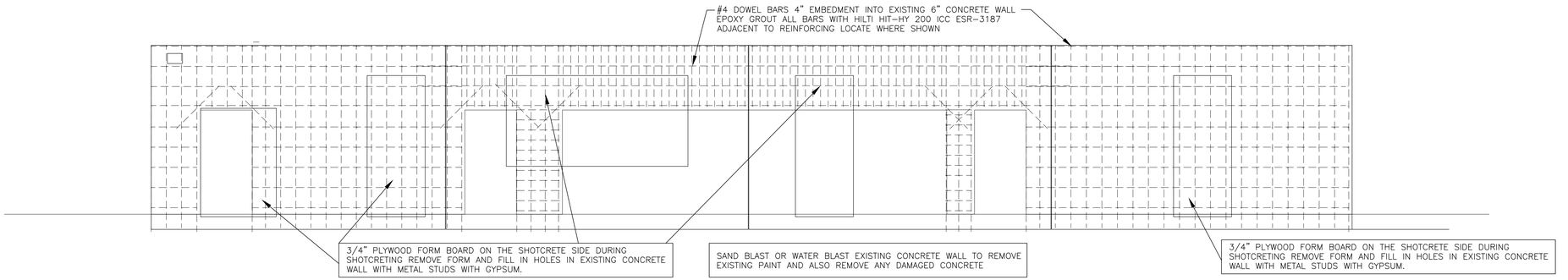
• DWG #: S2.5



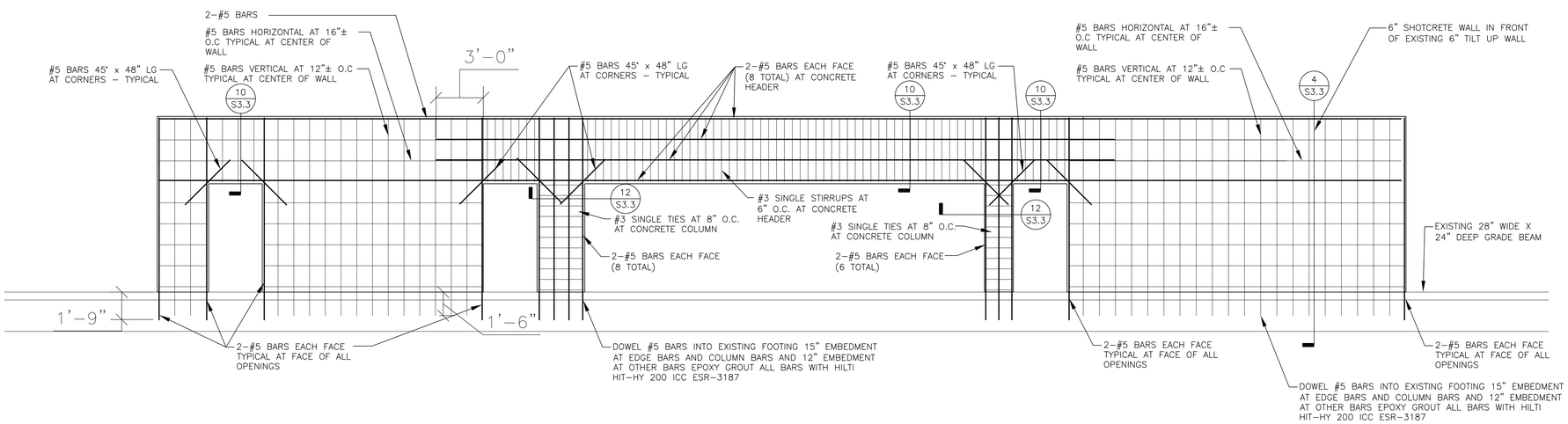
ORIGINAL DESIGN PANEL L | ORIGINAL DESIGN PANEL M | ORIGINAL DESIGN PANEL J3 | ORIGINAL DESIGN PANEL N1

(A) ORIGINAL CONCRETE PANEL ELEVATION
SCALE: 1/4" = 1'-0"

EXISTING WALLS ARE REINFORCED WITH #4 AT 12" O.C. VERTICAL AND HORIZONTAL. OPENINGS ARE REINFORCED WITH 2-#4 BARS VERTICAL EACH FACE OF OPENING AND 2-#4 DIAGONAL BARS AT CORNERS TOP & BOTTOM



(B) DOWELING ELEVATION AT EXISTING CONCRETE WALL
SCALE: 1/4" = 1'-0"



(C) REINFORCING ELEVATION AT NEW SHOTCRETE WALL
SCALE: 1/4" = 1'-0"

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WALL ELEVATIONS AT GRID LINE 6

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

• REVISIONS •

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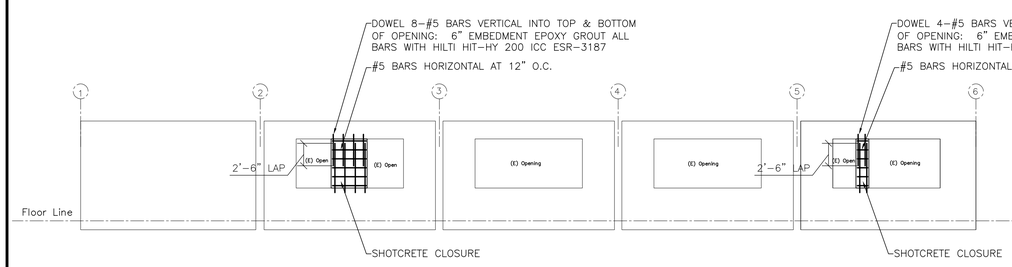
2	8-15-16	PC#1/ADD #3

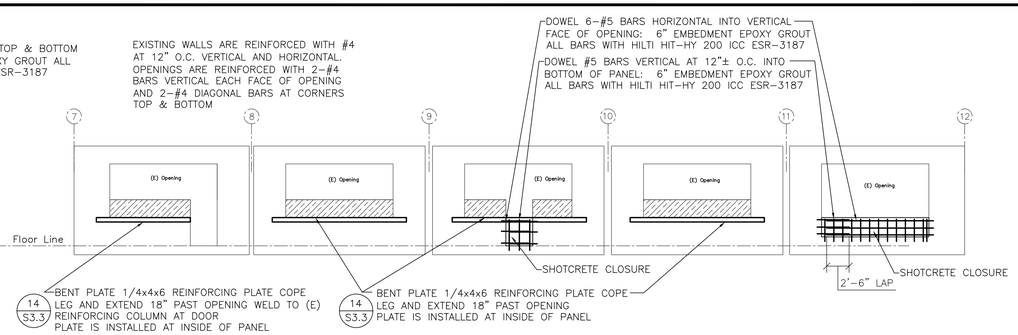
• JOB: 2015.2801

• DATE: 12/8/2015

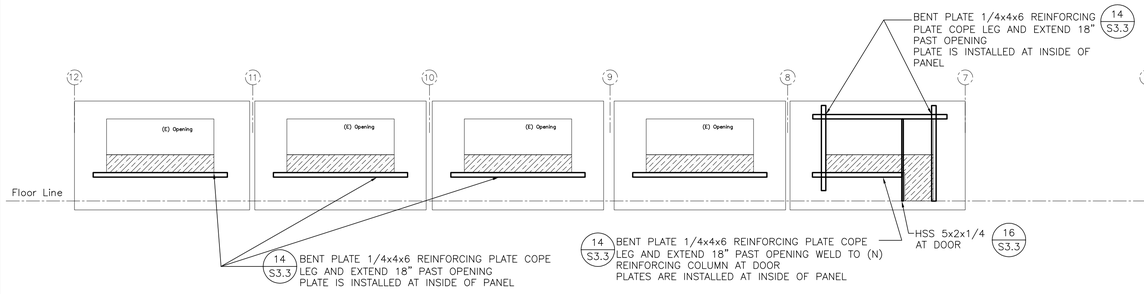
• DWG #: S2.6



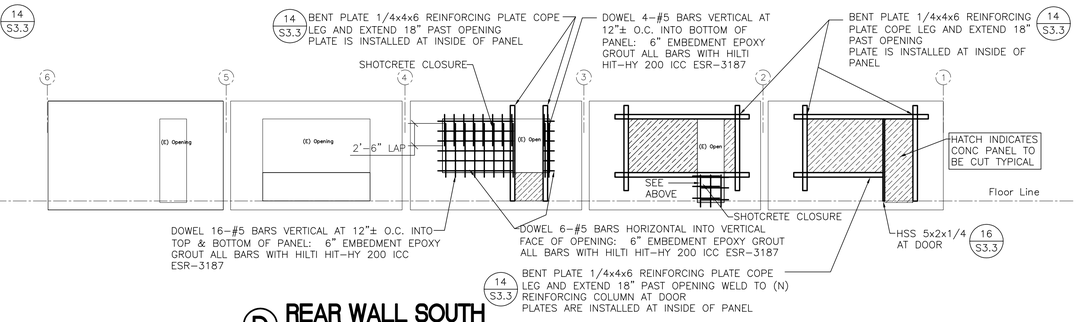
A FRONT WALL SOUTH
SCALE: 1/8" = 1'–0"



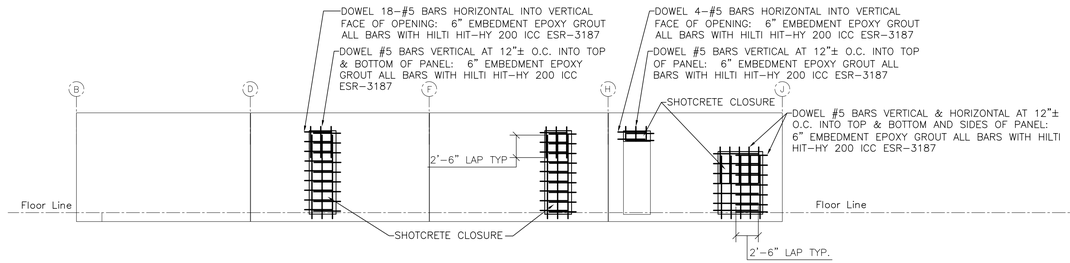
B FRONT WALL NORTH
SCALE: 1/8" = 1'–0"



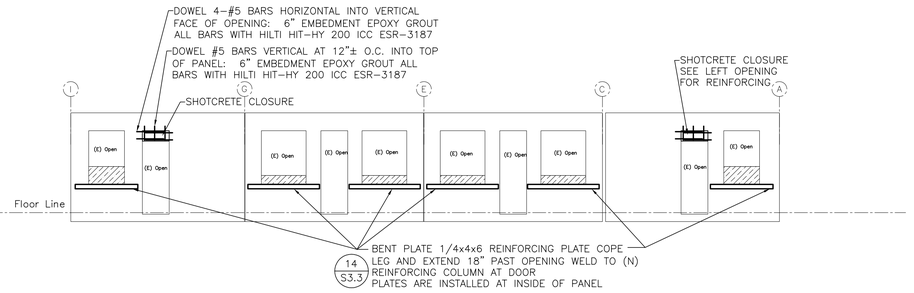
C REAR WALL NORTH
SCALE: 1/8" = 1'–0"



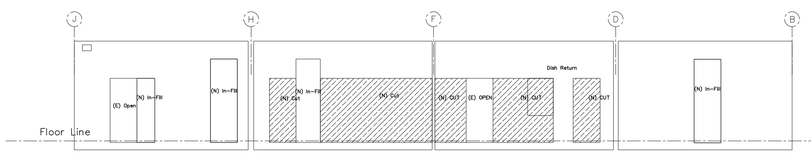
D REAR WALL SOUTH
SCALE: 1/8" = 1'–0"



E SIDE WALL WEST
SCALE: 1/8" = 1'–0"

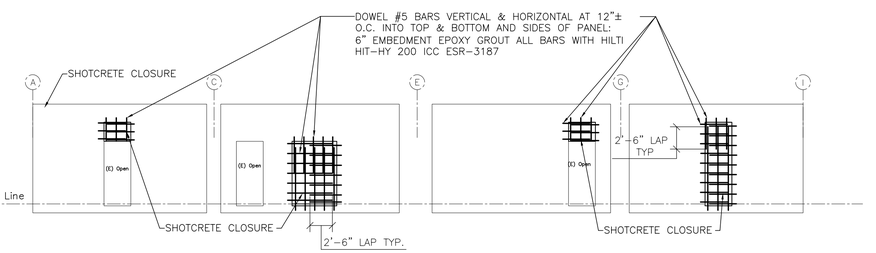


F SIDE WALL EAST
SCALE: 1/8" = 1'–0"



SEE SHEET S2.6 FOR REINFORCING DETAILS FOR THIS WALL

G WALL 6 KITCHEN WALL
SCALE: 1/8" = 1'–0"



H WALL 7
SCALE: 1/8" = 1'–0"

EXISTING WALLS ARE REINFORCED WITH #4 AT 12" O.C. VERTICAL AND HORIZONTAL. OPENINGS ARE REINFORCED WITH 2–#4 BARS VERTICAL EACH FACE OF OPENING AND 2–#4 DIAGONAL BARS AT CORNERS TOP & BOTTOM

WORK THIS DRAWING WITH ARCHITECTURAL DRAWING A–2.7

IT IS THE CONTRACTOR RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS BEFORE FABRICATION OF ANY ITEM.

DIMENSIONS OF OPENING SHALL BE COORDINATED WITH WINDOW AND DOOR MANUFACTURER AND ALL EXISTING AND NEW CONDITIONS

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WALL ELEVATIONS CONCRETE WALLS

SCALE : 1/8"=1'-0"

• REVISIONS •

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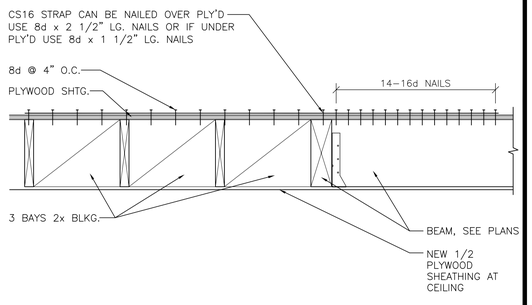
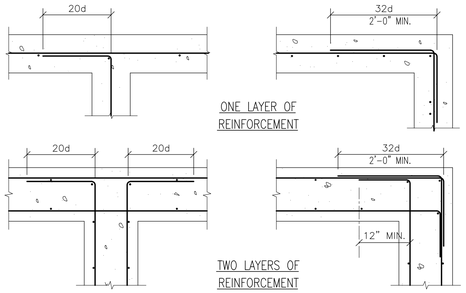
• DATE: 12/8/2015

• DWG #: S2.7



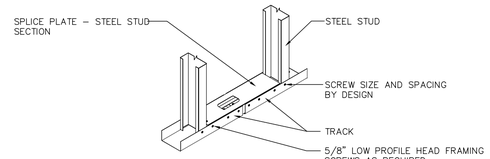
STRAP AT CEILING/ROOF OPENING 13

1"=1'-0"

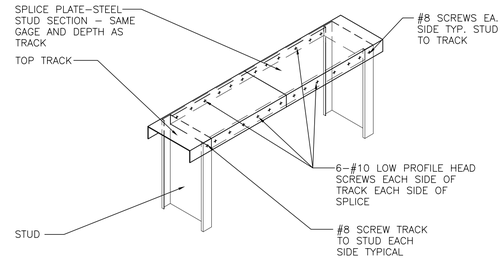


TYPICAL LAP SPLICES - CONC. 9

N.T.S.

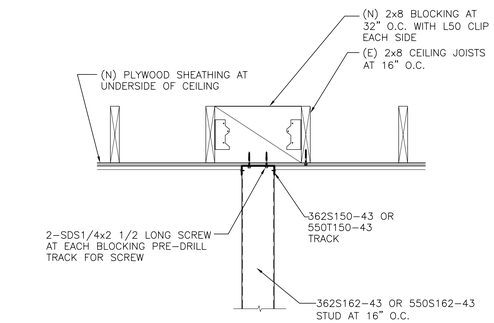


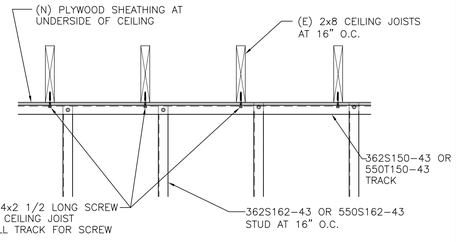
BOTT. TRACK SPLICE 5



TOP TRACK SPLICE 1

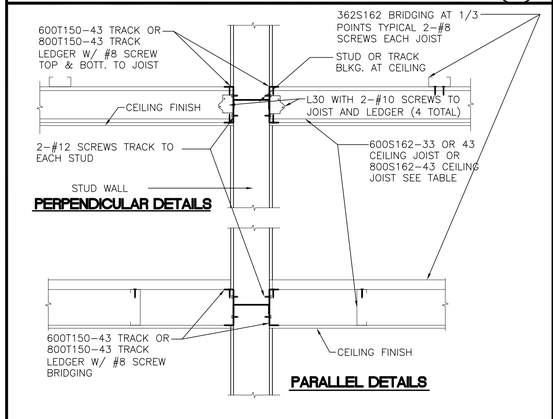
1"=1'-0"





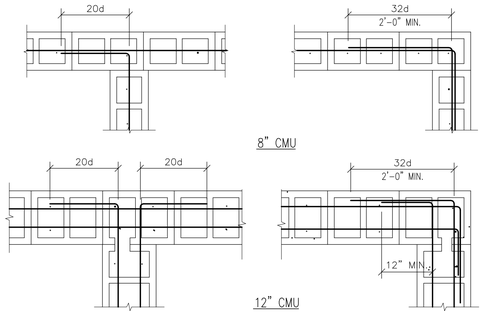
NEW WALLS AT (E) CEILING 15

1"=1'-0"



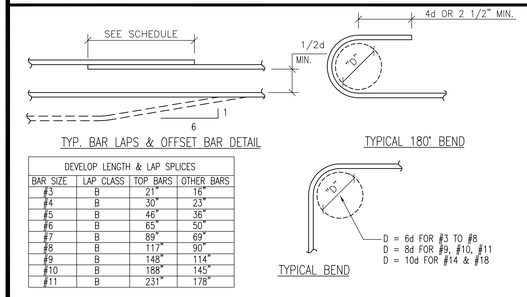
CEILING DETAILS 16

1"=1'-0"



TYPICAL LAP SPLICES - CMU 10

N.T.S.

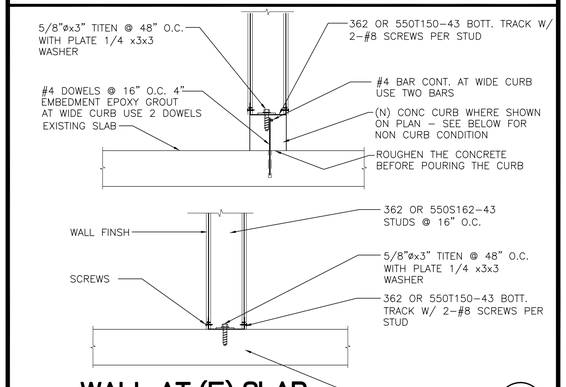


DEVELOP LENGTH & LAP SPLICES

BAR SIZE	LAP CLASS	TOP BARS	OTHER BARS
#3	B	21"	16"
#4	B	30"	23"
#5	B	46"	36"
#6	B	65"	50"
#7	B	89"	69"
#8	B	117"	90"
#9	B	148"	114"
#10	B	188"	145"
#11	B	231"	178"

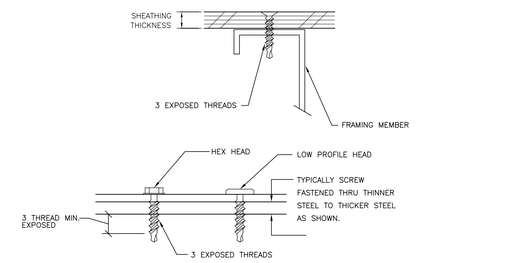
TYP. BAR LAPS AND OFFSETS 11

N.T.S.

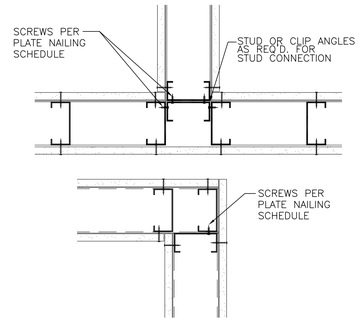


WALL AT (E) SLAB 12

1"=1'-0"

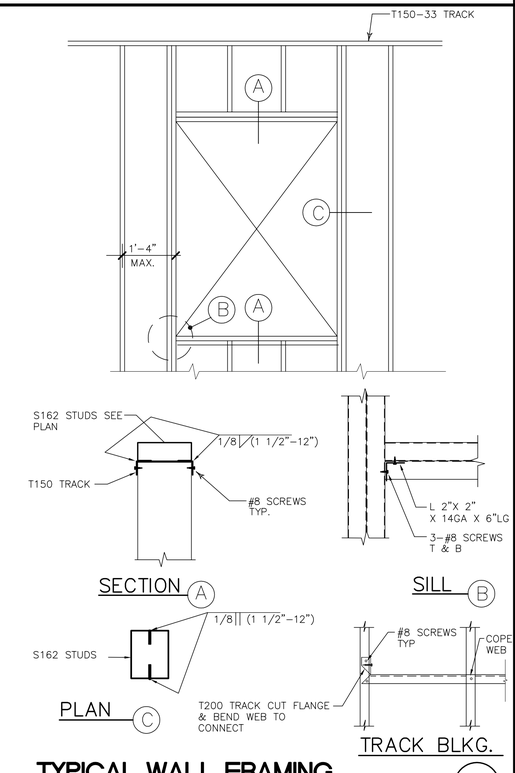


MIN. THREAD EXPOSURE 6



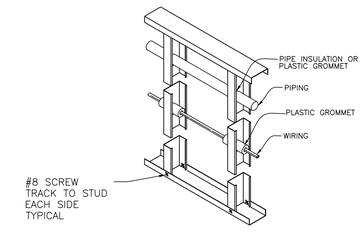
CORNER FRAMING 2

1"=1'-0"



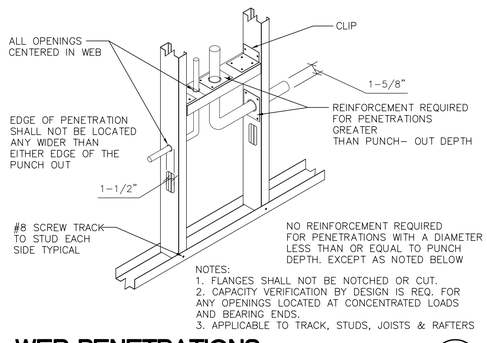
TYPICAL WALL FRAMING 8

N.T.S.



PENETRATION AT PUNCH OUT 3

1"=1'-0"



WEB PENETRATIONS 4

N.T.S.

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REGISTERED PROFESSIONAL ENGINEER
GEOFFREY S. CLIFFORD
S3662
Exp : 3/31/2017
STRUCTURAL
STATE OF CALIFORNIA

BCA Jᵒ No. 15445

8/15/2016

• PROJECT •

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City, CA 94063

• TITLE •

STANDARD DETAILS

SCALE : NOTED

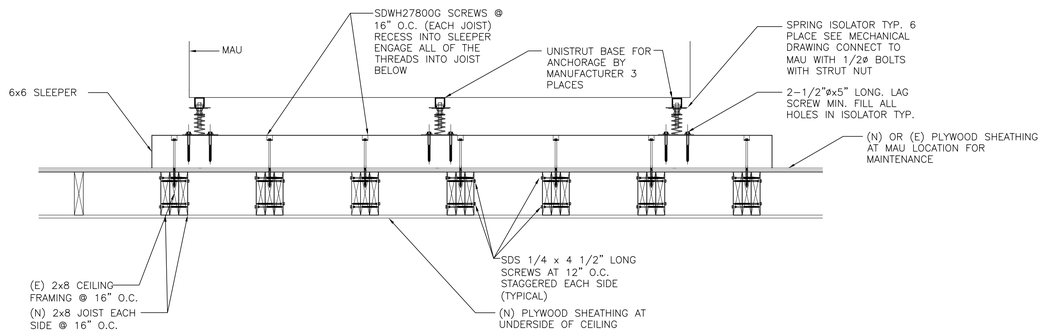
• REVISIONS •

No.	Date	Notes
	6-17-16	BUILDING SUBMITTAL 1
2	8-15-16	PC#1/ADD #3

• JOB: 2015.2801

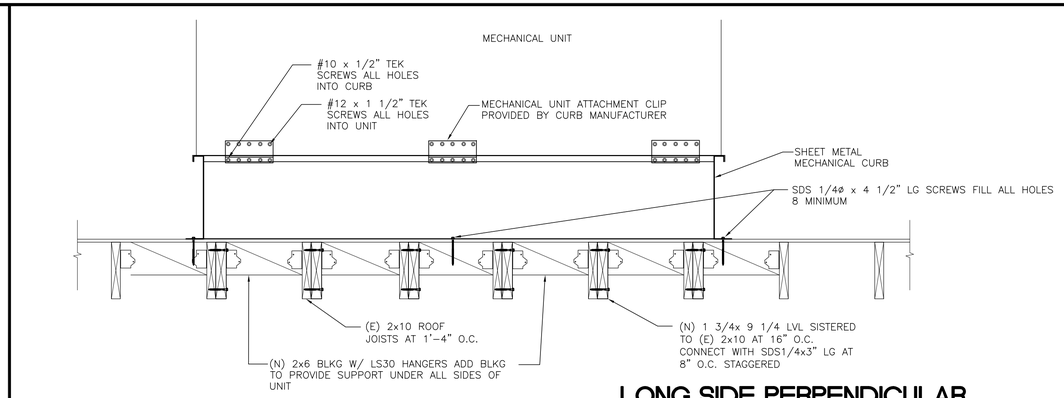
• DATE: 12/8/2015

• DWG #: S3.1

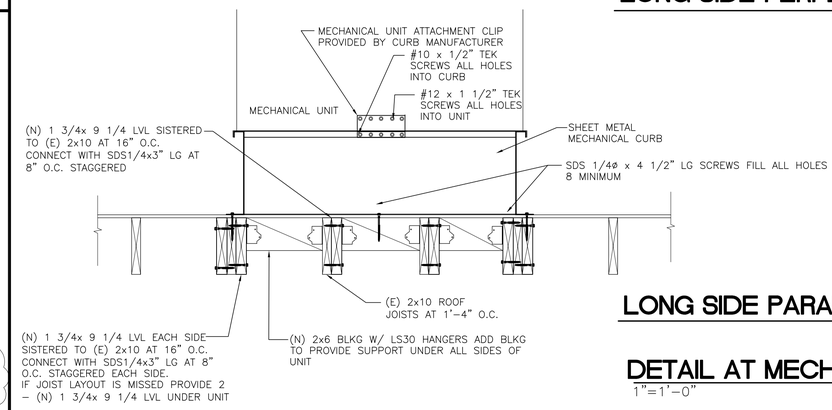


MAU SUPPORT AND ANCHORAGE 9

1"=1'-0"



LONG SIDE PERPENDICULAR



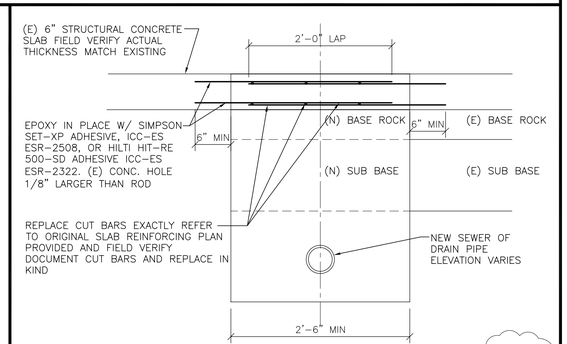
LONG SIDE PARALLEL

DETAIL AT MECHANICAL CURB 2

1"=1'-0"

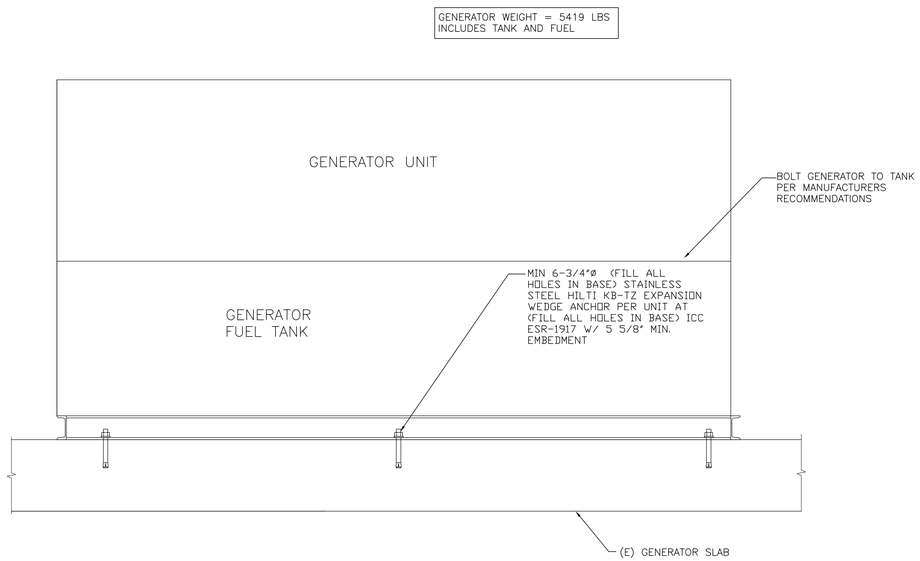
DETAIL 14

1"=1'-0"



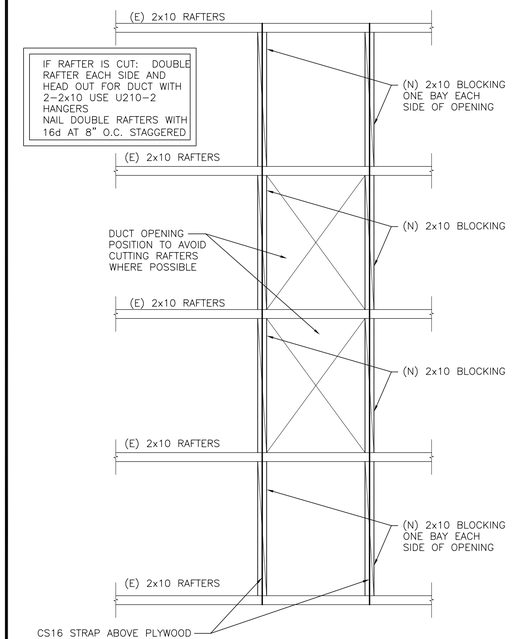
DETAIL AT SAW CUT REPAIR 10

1"=1'-0"



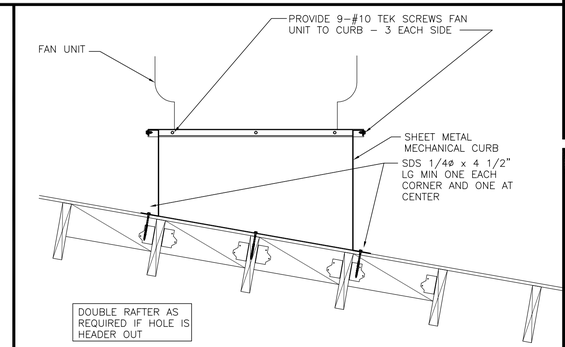
GENERATOR ANCHORAGE 12

1"=1'-0"



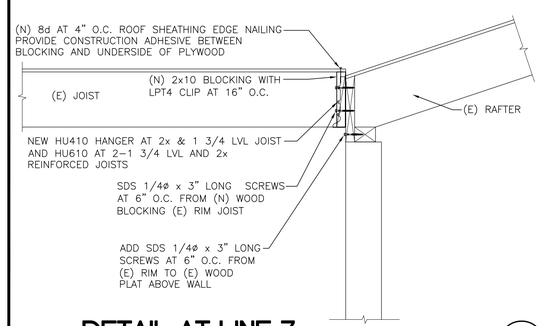
DETAIL AT DUCT OPENING 8

1"=1'-0"



DETAIL AT EXHAUST FAN 3

1"=1'-0"



DETAIL AT LINE 7 4

1"=1'-0"

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REGISTERED PROFESSIONAL ENGINEER GEOFFREY S. CLIFFORD S3662 Exp : 3/31/2017 STRUCTURAL STATE OF CALIFORNIA

BCA Jt No. 15445 8/15/2016

• PROJECT •

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City, CA 94063

• TITLE •

STRUCTURAL DETAILS

SCALE : NOTED

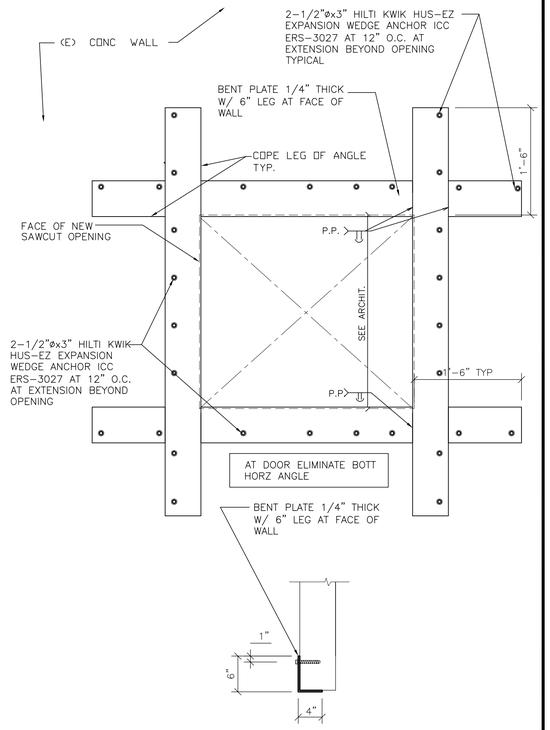
• REVISIONS •

No.	Date	Notes
	6-17-16	BUILDING SUBMITTAL 1
2	8-15-16	PC#1/ADD #3

• JOB: 2015.2801

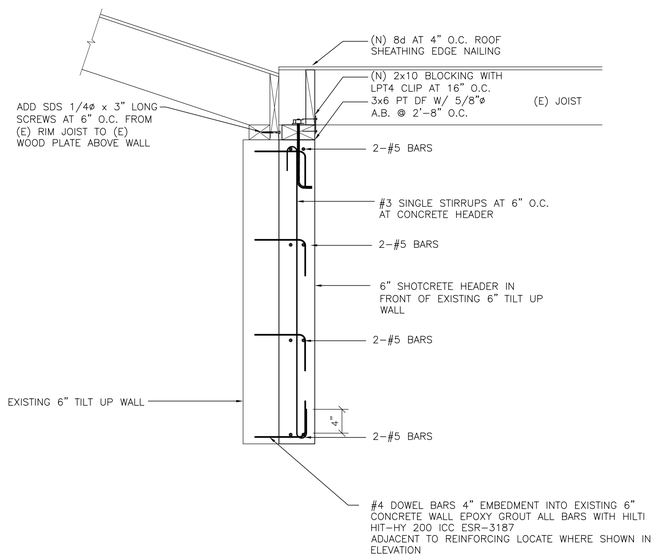
• DATE: 12/8/2015

• DWG #: S3.2



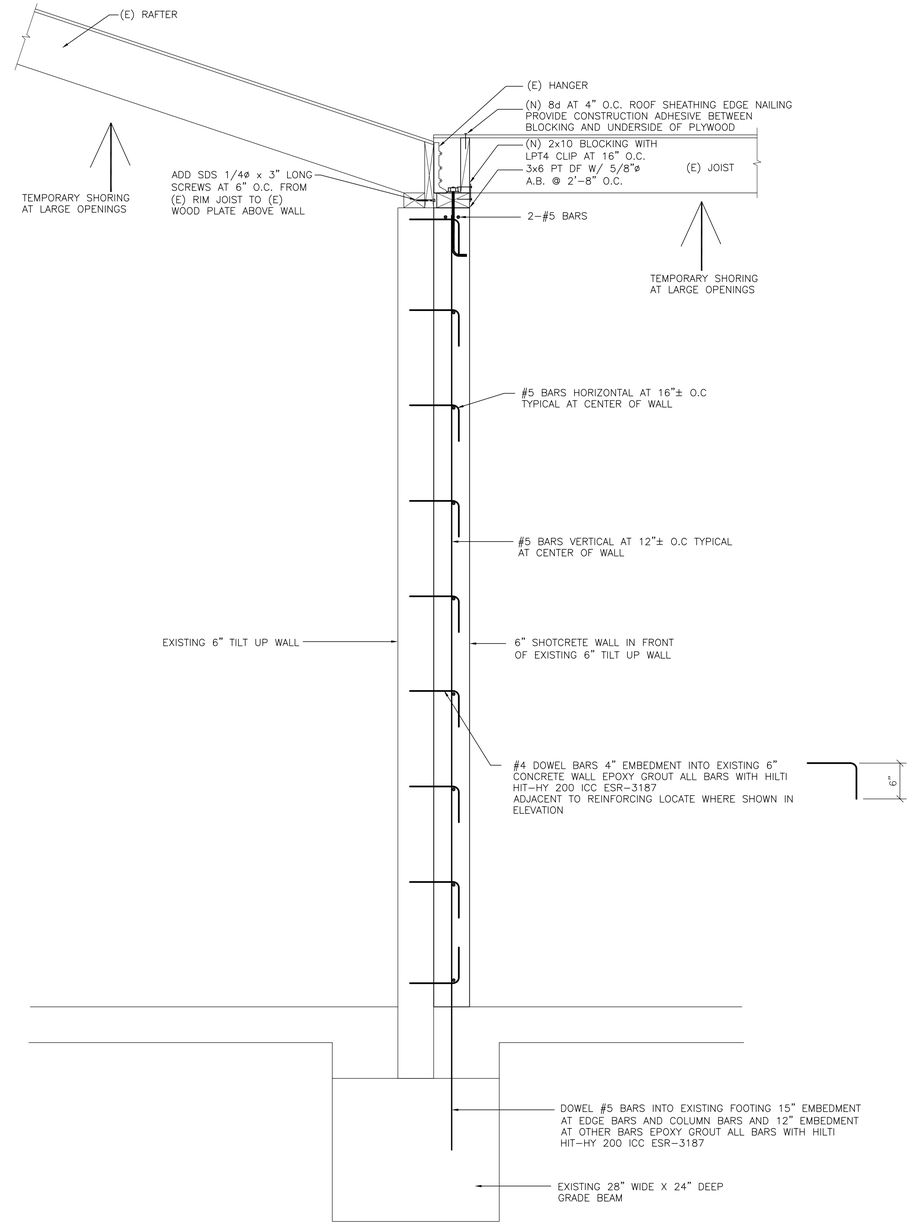
DETAIL AT REINFORCING PLATE 14

1"=1'-0"



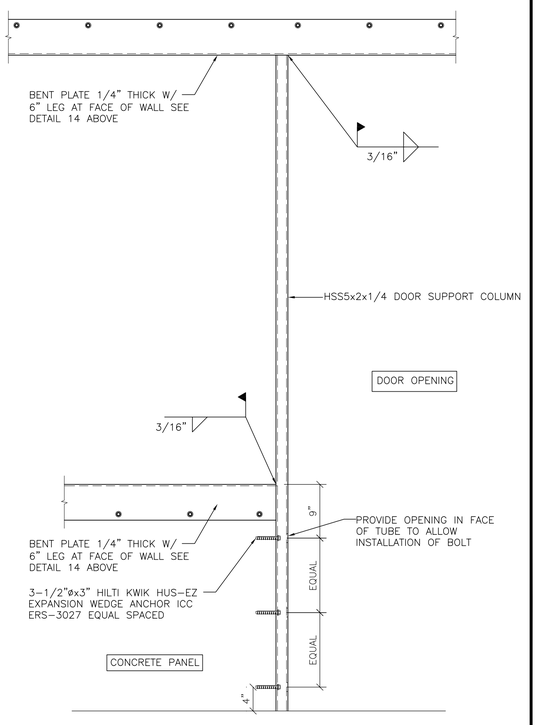
SECTION AT SHOTCRETE HEADER 10

1"=1'-0"



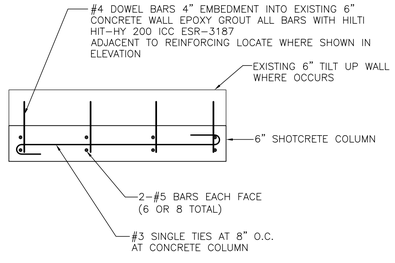
SECTION AT LINE 6 WALL REINFORCING 4

1"=1'-0"



DETAIL AT NEW DOORWAY 16

1"=1'-0"



PLAN AT SHOTCRETE COLUMN 12

1"=1'-0"

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SCALE : NOTED

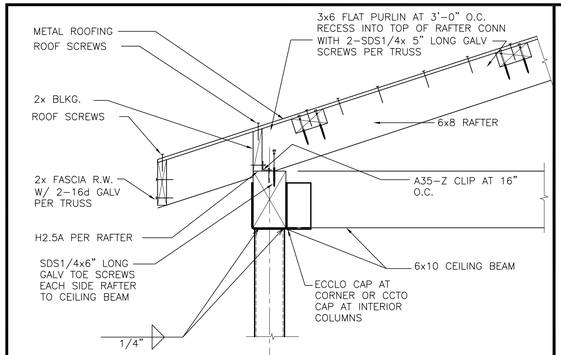
• REVISIONS •

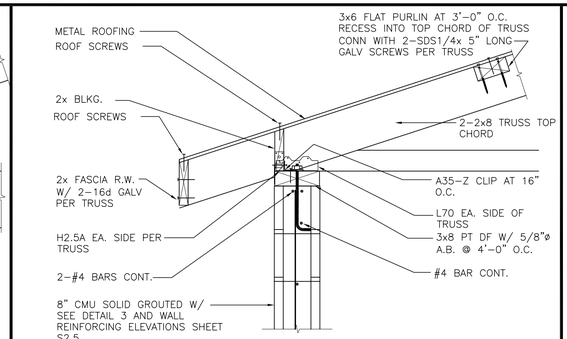
No.	Date	Notes
	6-17-16	BUILDING SUBMITTAL 1
2	8-15-16	PC#1/ADD #3

• JOB: 2015.2801

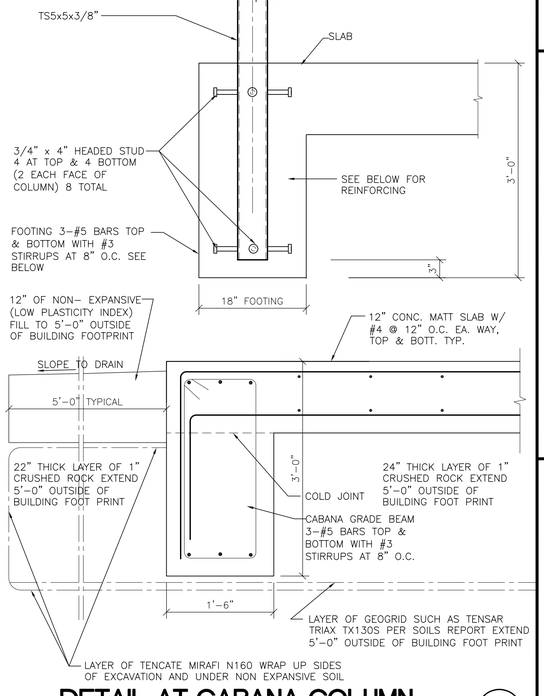
• DATE: 12/8/2015

• DWG #: S3.3

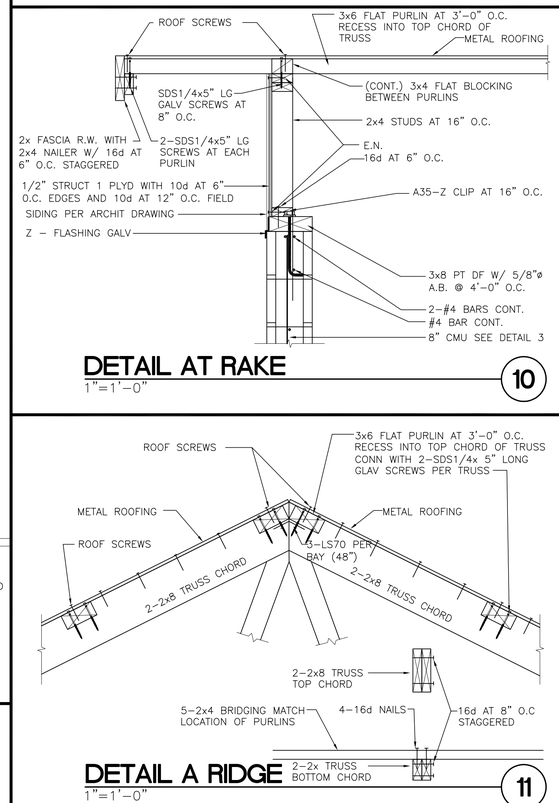




DETAIL AT EAVE 9
1"=1'-0"

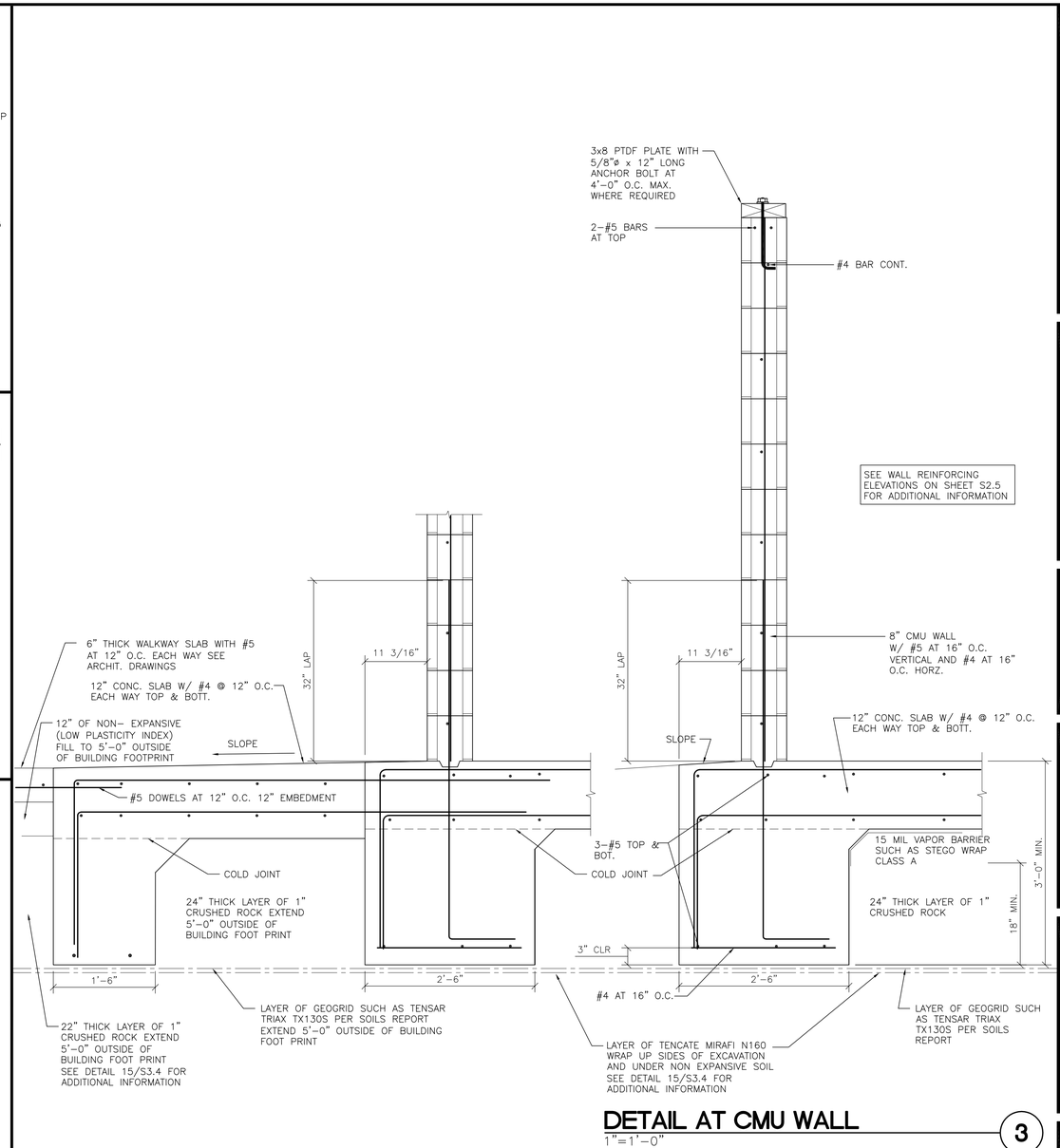


DETAIL AT CABANA COLUMN 15
1"=1'-0"

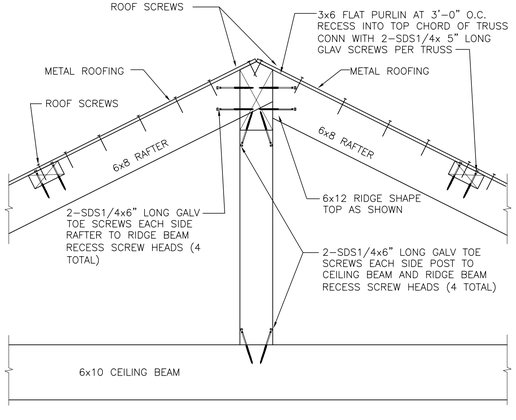


DETAIL AT RAKE 10
1"=1'-0"

DETAIL A RIDGE 11
1"=1'-0"

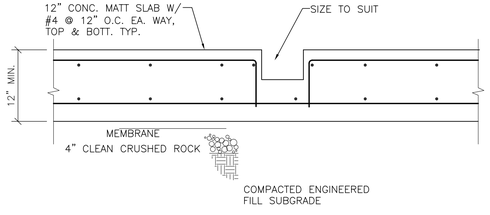


DETAIL AT CMU WALL 3
1"=1'-0"

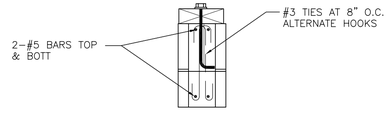


DETAIL AT RIDGE 16
1"=1'-0"

DETAIL 12
1"=1'-0"



DETAIL AT TRENCH DRAIN 8
1"=1'-0"



DETAIL AT CMU LINTEL 4
1"=1'-0"

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BCA J No. 15445

8/15/2016

• PROJECT •

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City, CA 94063

• TITLE •

STRUCTURAL DETAILS

SCALE : NOTED

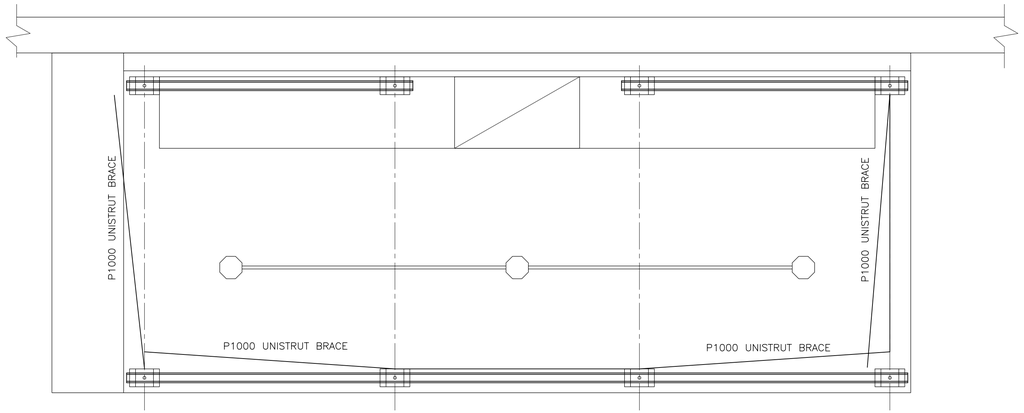
• REVISIONS •

No.	Date	Notes
	6-17-16	BUILDING SUBMITTAL 1
2	8-15-16	PC#1/ADD #3

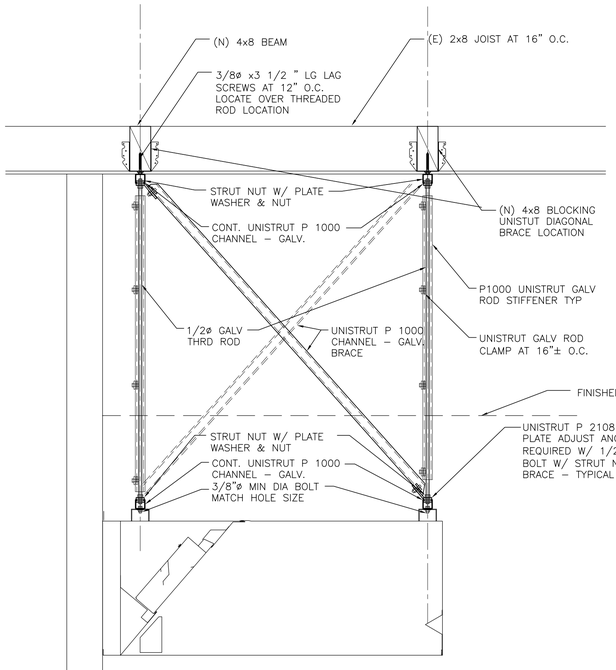
• JOB: 2015.2801

• DATE: 12/8/2015

• DWG #: S3.4

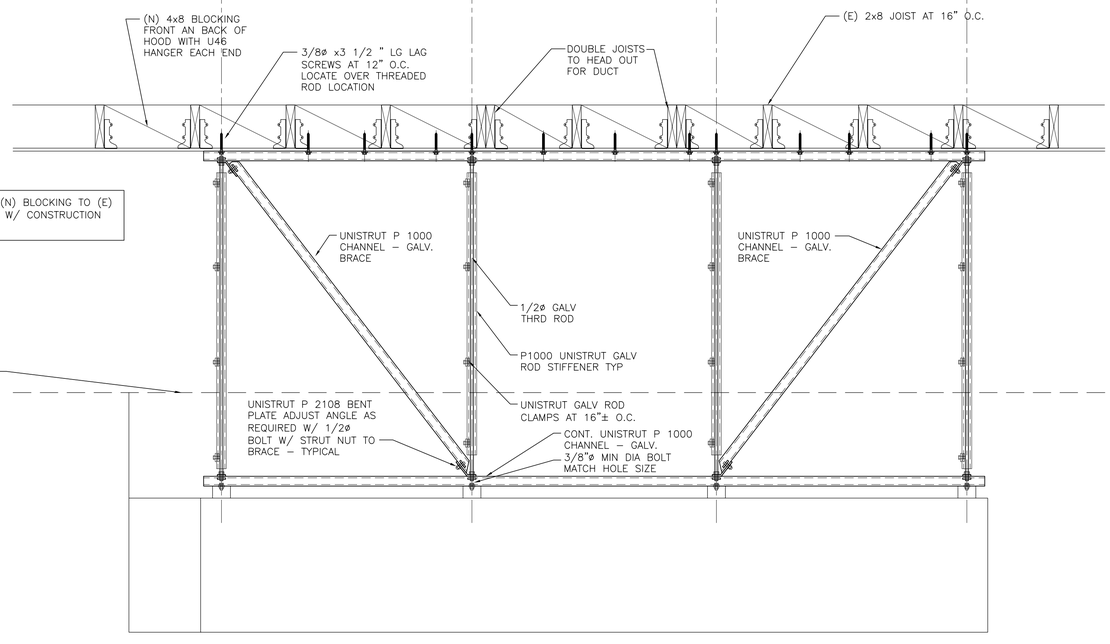


PLAN VIEW



SECTION VIEW

GLUE ALL (N) BLOCKING TO (E) SHEATHING W/ CONSTRUCTION ADHESIVE



FRONT ELEVATION

DETAIL AT EXHAUST HOOD SUPPORT

1"=1'-0"

1

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• PROJECT •

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City, CA 94063

• TITLE •

EXHAUST HOOD DETAILS

SCALE : NOTED

• REVISIONS •

No.	Date	Notes
	8-17-16	BUILDING SUBMITTAL 1
2	8-15-16	PC#1/ADD #3

• JOB: 2015.2801

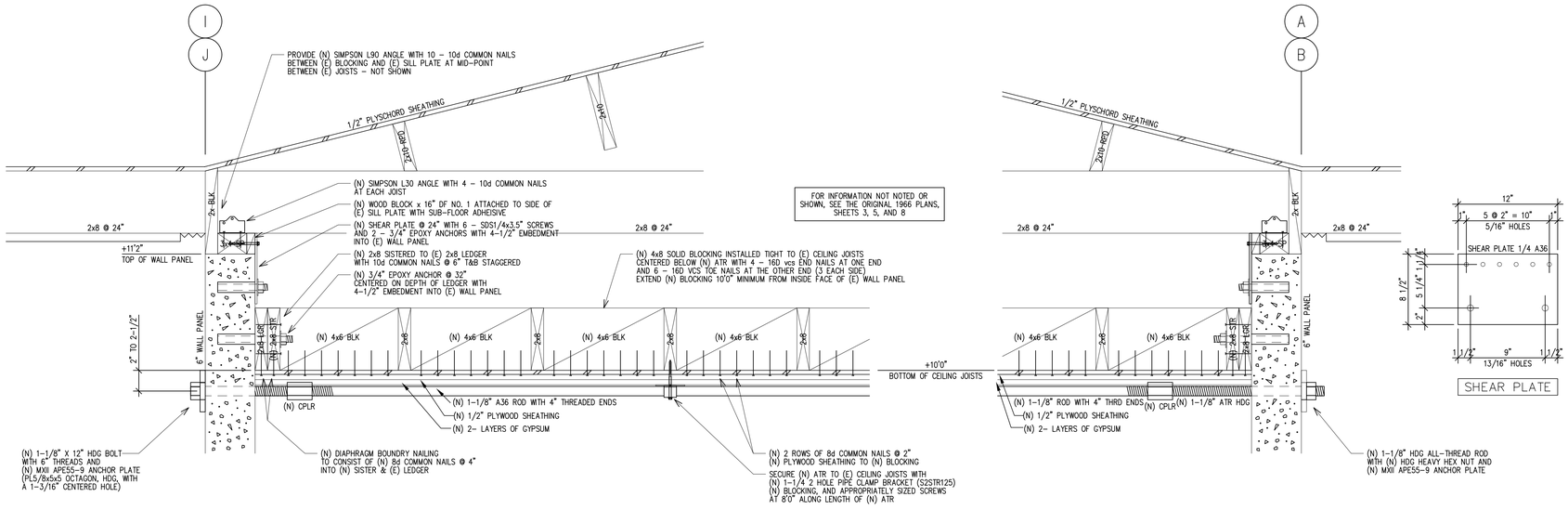
• DATE: 12/8/2015

• DWG #: S3.5

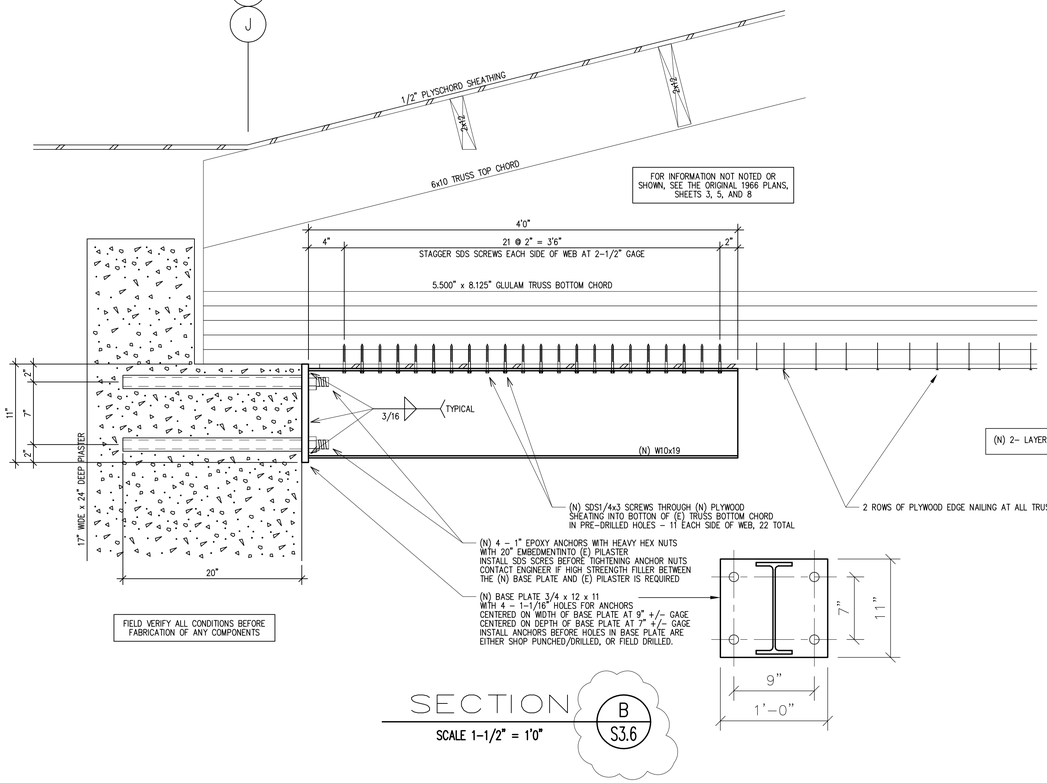
STRUCTURAL NOTES

1. MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE CALIFORNIA BUILDING CODE (CBC), 2013 EDITION, AND ALL LOCAL ORDINANCES.
2. INFORMATION REGARDING EXISTING CONSTRUCTION IS BELIEVED TO BE CORRECT, BUT NOT GUARANTEED. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS, AND FIELD VERIFY ALL DIMENSIONS, EXISTING JOB CONDITIONS, AND CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF EXISTING JOB CONDITIONS AND/OR CONSTRUCTION IS NOT AS SHOWN ON THE DRAWINGS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING THE SAFETY OF ALL PERSONS WHO COME IN CONTACT WITH THE PROJECT.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADEQUATE BRACING AND SUPPORT OF ALL TEMPORARY CONSTRUCTION AND PARTIALLY COMPLETED PORTIONS OF THE WORK. SUCH BRACING, SHORING, AND SUPPORT SHALL INSURE THE SAFETY OF THE STRUCTURE AND ALL PERSONS WHO COME IN CONTACT WITH THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR ALL SHORING, BRACING, AND DEMOLITION PROCEDURES.
5. ALL WORK SHALL CONFORM TO THESE NOTES AND DRAWINGS IN ALL RESPECTS. NO CHANGES SHALL BE ALLOWED WITHOUT WRITTEN AUTHORITY FROM THE ENGINEER.
6. NON-SHRINK GROUT, AS CALLED FOR IN THE PLANS, SHALL BE NON-SHRINK, NON-METALLIC, FLOWABLE OR DRY PACK.
7. EXPANSION ANCHORS INSTALLED IN CONCRETE – HILTI KWIK BOLT TZ ANCHORS, OR APPROVED EQUAL, AND INSTALLED IN STRICT CONFORMANCE WITH THE WITH THE MANUFACTURER'S DIRECTIONS AND ICC REPORT NO. ESR-1917.
8. EPOXY FOR ANCHORING THREADED RODS IN CONCRETE – HILTI HIT-HY 200 EPOXY, OR APPROVED EQUAL, AND INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S DIRECTIONS AND ICC REPORT NO. ESR-3187.
9. EPOXY FOR ANCHORING THREADED RODS AND ANCHORS IN CONCRETE OR GROUT FILLED CONCRETE BLOCK SHALL BE ALLOWED TO CURE FOR A PERIOD OF 1.25 x THE MANUFACTURE'S RECOMMENDED CURE TIME BEFORE THE THREADED RODS MAY BE TIGHTENED OR SUBJECTED TO LOAD.
10. STRUCTURAL STEEL WF SHAPES SHALL CONFORM TO ASTM A992. FLANGE STRENGTHENING PLATES USED WITH MOMENT FRAMES SHALL BE GRADE 50. PIPE USED STRUCTURALLY SHALL CONFORM TO ASTM A53, GRADE B. STEEL TUBES SHALL CONFORM TO ASTM A500, GRADE B. ALL OTHER STRUCTURAL STEEL SHAPES AND PLATES SHALL CONFORM TO ASTM A36.
11. ALL STRUCTURAL STEEL SHALL BE DESIGNED, DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITION.
12. THE STEEL ERECTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ERECTION BRACING AND SHORING, AS REQUIRED.
13. ALL STRUCTURAL AND MISCELLANEOUS STEEL, EXCEPT STEEL TO BE EMBEDDED IN CONCRETE, GALVANIZED, OR FIELD WELDED, SHALL BE SHOP PAINTED WITH ONE COAT OF RED OXIDE PAINT AND TOUCHED UP IN THE FIELD AFTER ERECTION OR INSTALLATION, UNLESS NOTED OTHERWISE. COMPONENTS INDICATED TO BE POWDER COATED SHALL BE COATED WITH DUPONT CASCADE BLACK, UNLESS INDICATED OTHERWISE.
14. ALL STEEL INDICATED TO BE GALVANIZED SHALL BE HOT DIP GALVANIZED PER ASTM A123 AFTER FABRICATION, UNLESS NOTED OTHERWISE.
15. WELDING SHALL CONFORM TO AWS SPECIFICATIONS AND SECTION J2 OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITIONS. WELDING ELECTRODES SHALL BE E70, OR APPROVED EQUAL. ALL WELDING SHALL BE PERFORMED BY WELDERS HOLDING CURRENT CERTIFICATION FOR THE TYPE OF WELDS INDICATED ON THE PLANS.
16. BOLTS SHALL CONFORM TO ASTM A307, UNLESS NOTED OTHERWISE. NUTS SHALL CONFORM TO ASTM A563, UNLESS NOTED OTHERWISE. ALLTHREAD ROD SHALL NOT BE SUBSTITUTED FOR BOLTS.
17. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A325, AND SHALL BE PROCURED WITH CERTIFICATION, LOT CONTROL, AND FULL TRACEABILITY. NUTS TO BE USED WITH HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A192–2H.
18. ROD WITH THREADED ENDS SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWSE. STANDARD ALLTHREAD ROD SHALL MEET THE MINIMUM YIELD AND TENSILE STRENGTH REQUIREMENTS PER ASTM A36, UNLESS NOTED OTHERWISE.
19. HIGH STRENGTH ROD SHALL CONFORM TO ASTM A193–B7, UNLESS NOTED OTHERWISE. NUTS TO BE USED WITH HIGH STRENGTH RODS SHALL CONFORM TO ASTM A192–2H. THE LOAD CAPACITY OF ALL COUPLERS TO BE USED WITH HIGH STRENGTH ROD SHALL EXCEED THE LOAD CAPACITY OF THE ROD.
20. LAG BOLTS SHALL CONFORM TO ASTM A307, AND BE INSTALLED IN HOLES PRE–DRILLED FOR BOTH THE SHANK AND THREADED PORTIONS OF THE LAG BOLT. HOLE SIZE FOR THE SHANK PORTION SHALL MATCH THE DIAMETER OF THE LAG BOLT. GENERAL HOLE SIZES FOR THE THREADED PORTION SHALL BE 1/4" FOR 3/8" LAGS, 5/16" FOR 1/2" LAGS, 3/8" FOR 5/8" LAGS, 1/2" FOR 3/4" LAGS, 5/8" FOR 7/8" LAGS, AND 3/4" FOR 1" LAGS. ADJUST HOLES SIZES AS NECESSARY IF WOOD SPLITTING OCCURS. LAG BOLTS SHALL BE INSTALLED BY ROTATING THE LAG BOLT WITH A WRENCH, AND NOT BY DRIVING WITH A HAMMER. BEE'S WAX SHALL BE USED TO FACILITATE INSTALLATION AND MITIGATE THE POTENTIAL FOR WOOD SPLITTING.
21. ALL FASTENERS AND RELATED ITEMS, EXCEPT HIGH STRENGTH BOLTS, ROD, AND NUTS, SHALL BE ZINC PLATED.
22. MISCELLANEOUS STRUCTURAL WOOD FRAMING SHALL BE DOUGLAS FIR, NO. 1 GRADE. WOOD STUDS, NON STRUCTURAL FRAMING, AND MISCELLANEOUS BLOCKING SHALL BE DOUGLAS FIR, NO. 2 GRADE. WOOD POSTS AND TIMBERS SHALL BE DOUGLAS FIR, NO. 1 GRADE.
23. PLYWOOD SHEATHING FOR SHEARWALLS AND DIAPHRAGMS SHALL BE AMERICAN PLYWOOD ASSOCIATION GRADE MARKED, STRUCTURAL I, 5 PLY, INDEX 32/16, INTERIOR TYPE WITH EXTERIOR GLUE, GROUP 1 OR II SPECIES, UNLESS SPECIFIED OTHERWISE. LAY WITH FACE PLYS PERPENDICULAR TO SUPPORTS FOR ROOFS AND FLOORS, AND STAGGER SHEETS.
24. PLYWOOD SHEATHING FOR SHIMMING AND/OR PADDING APPLICATIONS ASSOCIATED WITH XT INSTALLATIONS SHALL BE AMERICAN PLYWOOD ASSOCIATION GRADE MARKED, STRUCTURAL I, 5 PLY, INDEX 32/16, INTERIOR TYPE WITH EXTERIOR GLUE, GROUP 1 OR II SPECIES, UNLESS INDICATED OTHERWISE.
25. BOLT HOLES IN WOOD SHALL BE BORED 1/32" TO 1/16" LARGER IN DIAMETER THAN THE NOMINAL BOLT DIAMETER. BOLTS SHALL HAVE STANDARD CUT WASHERS BETWEEN WOOD, NUTS AND BOLT HEADS. STEEL PLATE WASHERS SHALL BE USED WHERE BOLTS ARE IN TENSION. ALL NUTS SHALL BE TIGHTENED WHEN INSTALLED, AND RE–TIGHTENED BEFORE ENCLOSING WITH FINISH CONSTRUCTION.
26. ALL NAILS SHALL BE "COMMON" WIRE NAILS, UNLESS NOTED OTHERWISE. GALVANIZED NAILS SHALL BE USED WHERE NAILS ARE EXPOSED TO WEATHER.
27. HOLES FOR NAILS IN SHEET METAL CONNECTORS, STEEL PLATES, AND STEEL SHAPES, SHALL NOT EXCEED THE DIAMETER OF THE NAIL BY MORE THAN 1/64" FOR UNGALVANIZED NAILS, AND 1/32" FOR GALVANIZED NAILS (5/32" FOR 10d COMMON UNGALVANIZED NAILS AND 16d V. C. SINKERS).
28. STANDARD JOIST HANGERS AND FRAMING CONNECTORS SHALL BE MANUFACTURED BY SIMPSON STRONG TIE AND INSTALLED FOR FULL RATED LOAD VALUES, UNLESS INDICATED OTHERWISE.
29. ALL SEISMIC RETROFIT HARDWARE DESIGNATED MXII, INCLUDING XT CROSS TIES, FLARE STRUTS, DRAGSTRUTS, PI–GUSS, AND ALL RELATED SUB–COMPONENTS, AS WELL AS ALL RELATED FASTENERS, SHALL BE MANUFACTURED AND/OR SUPPLIED BY MERCALLI XII, UNLESS INDICATED OTHERWISE. CONTACT MERCALLI XII AT (510) 654–1906 TEL, (510) 654–1994 FAX.
30. PLYWOOD SUB–FLOOR ADHESIVE SHALL MEET APA AFG–01 OR ASTM D3498. APPROVED SUB–FLOOR ADHESIVES INCLUDE PRO–SERIES SF–400 SUB–FLOOR & CONSTRUCTION ADHESIVE (OHIO SEALANTS, ICBO ER–2769), SFA 66 SUB–FLOOR & CONSTRUCTION ADHESIVE (PRATT & LAMBERT / MIRACLE ADHESIVES, ICBO ER–2231), PL400 SUB–FLOOR CONSTRUCTION ADHESIVE (CONTECH), DAP 4000 SUB–FLOOR & PLYWOOD ADHESIVE (DAP), LOCTITE PL PREMEIUM CONSTRUCTION ADHESIVE (HENKEL), AND SONNEBORN PREMIUM ADHESIVE (BASF).
31. ANY DISCREPANCIES BETWEEN THE PROJECT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. UNLESS INDICATED OTHERWISE, THE MORE STRINGENT REQUIREMENT IN DISCREPANCY SHALL PREVAIL.
32. SPECIAL INSPECTIONS, AS INTENDED BY SECTION 1701 OF THE CALIFORNIA BUILDING CODE, SHALL BE PROVIDED AS REQUIRED FOR THE FOLLOWING:
    - (a) WELDING OF STRUCTURAL STEEL NOT PERFORMED IN AN APPROVED FABRICATOR'S SHOP. WELDING OF STRUCTURAL STEEL AS INDICATED ON THE PLANS, ALL FULL PENETRATION WELDS, AND ALL FIELD WELDING.
    - (b) THE INSTALLATION OF ALL EXPANSION ANCHORS, UNLESS NOTED OTHERWISE.
    - (c) THE INSTALLATION OF ALL EPOXY ANCHORS, UNLESS NOTED OTHERWISE.

    THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND FACILITATING ALL SPECIAL INSPECTIONS.



SECTION A / S3.6
SCALE 1–1/2" = 1'0"



SECTION B / S3.6
SCALE 1–1/2" = 1'0"

SECTION C / S3.6
SCALE 1–1/2" = 1'0"

STATEMENT OF PURPOSE

THE PURPOSE OF THE SEISMIC RETROFIT MODIFICATIONS ASSOCIATED WITH THIS SHEET AND ASSOCIATED SET OF PLANS IS ONLY TO INCREASE THE CAPACITY OF VARIOUS LATERAL LOAD RESISTING ELEMENTS OF THE NOTED BUILDING. ALL NEW STRUCTURAL ELEMENTS ARE TO BE DESIGNED PER THE STANDARDS SET FORTH IN THE 2013 EDITION OF THE CALIFORNIA BUILDING CODE. THESE MODIFICATIONS ALONE WILL NOT NECESSARILY BRING THE OVERALL BUILDING INTO COMPLIANCE WITH THE SEISMIC STANDARDS SET FORTH IN THIS BUILDING CODE, AND WILL NOT NECESSARILY PREVENT DAMAGE FROM OCCURRING IN THIS BUILDING DURING AN EARTHQUAKE. THESE MODIFICATIONS ARE NOT NECESSARILY TO BE CONSIDERED A COMPLETE SEISMIC RETROFIT OF THE BUILDING.

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REGISTERED PROFESSIONAL ENGINEER
GEOFFREY S. CLIFFORD
S3662
Exp : 3/31/2017
STRUCTURAL
STATE OF CALIFORNIA

BCA Job No. 15445

8/15/2016

• PROJECT •

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City, CA 94063

• TITLE •

STRUCTURAL DETAILS

SCALE : NOTED

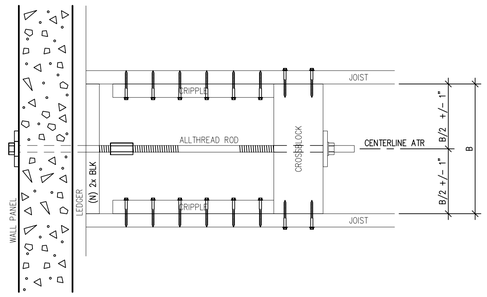
• REVISIONS •

No.	Date	Notes
	6–17–16	BUILDING SUBMITTAL 1
2	8–15–16	PCF1/ADD #3

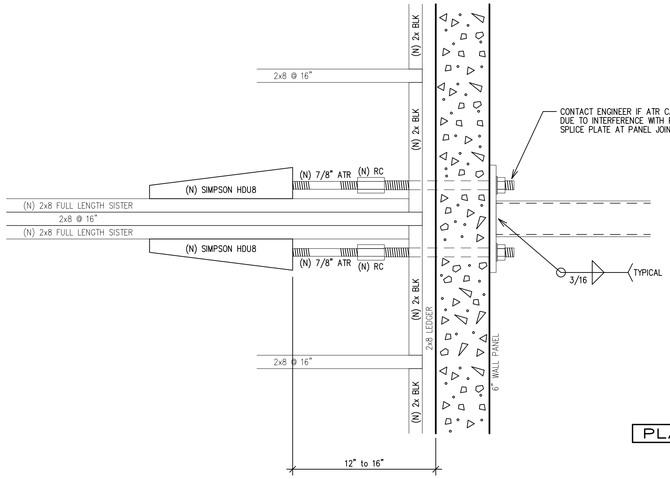
• JOB: 2015.2801

• DATE: 12/8/2015

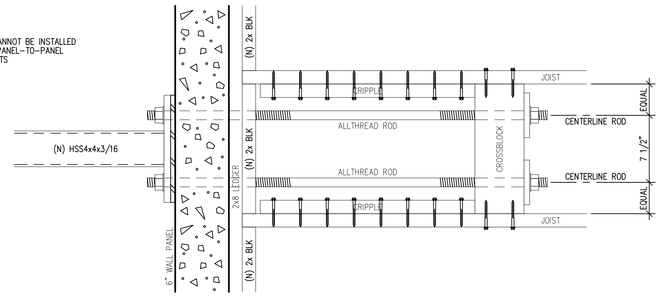
• DWG #: S3.6



PLAN



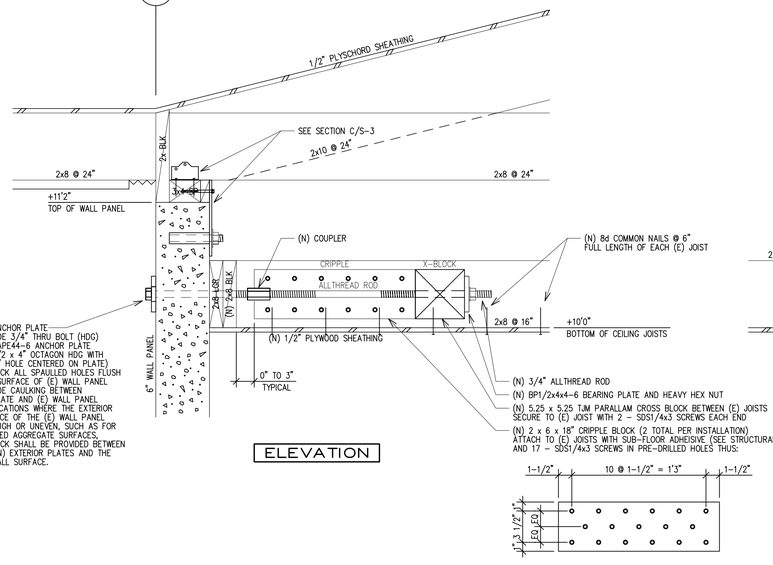
PLAN



NOTE THAT THE CEILING FRAMING LAYOUT BETWEEN THE EAST AND WEST BUILDINGS HAS ONLY BEEN ASSUMED, AND HAS NOT BEEN VERIFIED BY THE ENGINEER. CONTRACTOR SHALL VERIFIY EXISTING CEILING LAYOUT FOR BOTH THE EAST AND WEST BUILDINGS, AND CONTACT THE ENGINEER IF THE ACTUAL LAYOUT DIFFERS FROM THAT SHOWN. NOTE THAT THESE RETROFIT DETAILS MAY CHANGE SUBSTANTIALLY IF THE ACTUAL CEILING FRAMING LAYOUT DIFFERS FROM THAT SHOW.

1 / 12

FOR INFORMATION NOT NOTED OR SHOWN, SEE THE ORIGINAL 1966 PLANS, SHEETS 3, 5, AND 8



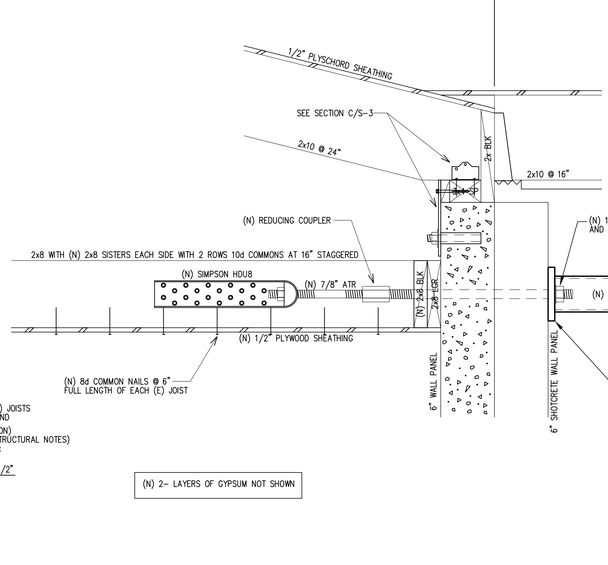
ELEVATION

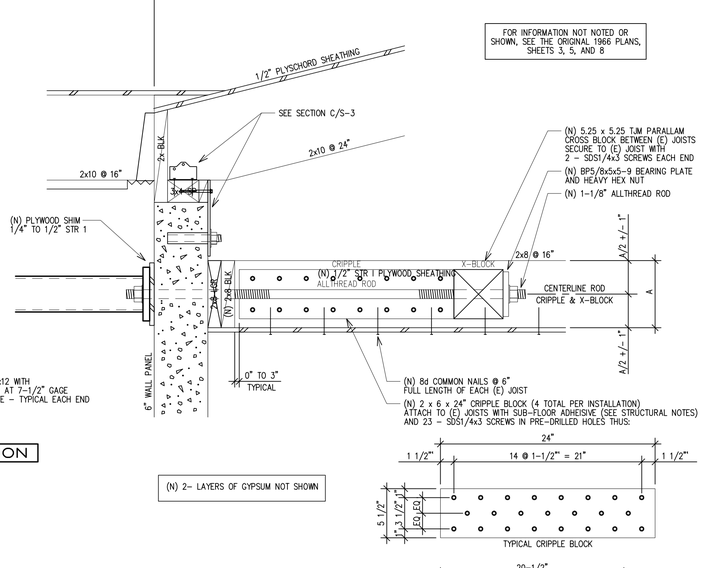
(N) 2- LAYERS OF GYPSUM NOT SHOWN

SECTION A S3.7
SCALE 1-1/2" = 1'0"

6 / 7

20'0"
VERIFY IN FIELD





ELEVATION

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• PROJECT •

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• TITLE •

STRUCTURAL DETAILS

SCALE : NOTED

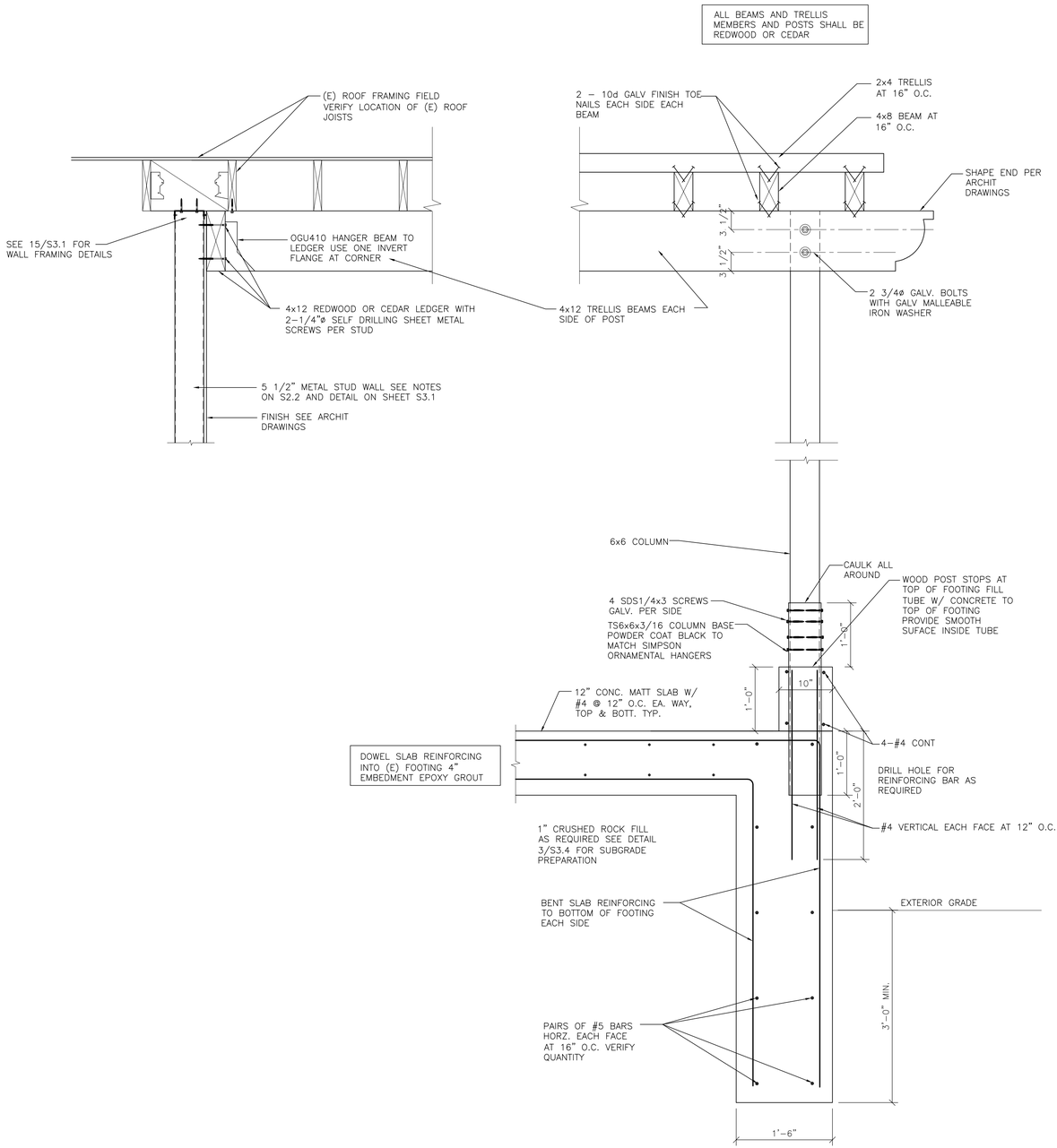
• REVISIONS •

No.	Date	Notes
	6-17-16	BUILDING SUBMITTAL 1
2	8-15-16	PC#1/ADD #3

• JOB: 2015.2801

• DATE: 12/8/2015

• DWG #: S3.7



DETAIL TRELLIS

1"=1'-0"

4

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• TITLE •

TRELLIS DETAILS

SCALE : NOTED

• REVISIONS •

No.	Date	Notes
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2	8-15-16	PC#1/ADD #3

• JOB: 2015.2801

• DATE: 12/8/2015

• DWG #: S3.8

EXHAUST FAN SCHEDULE

MARK	MFR.	MODEL	CFM	S.P.	RPM	MOTOR HP/A	MOTOR Volts	MOTOR PHASE	WEIGHT LBS	SERVICE	LOCATION	REMARKS
EF-1	CAPTIVE-AIRE	SEE M3.3	3850	1.35"	1061	2HP/5.9A	208V	3PH	206	TYPE 1 HOOD H-1	ROOF	(1)(2)(4)(5)
EF-2	GREENHECK	GB-141-4	1300	0.5"	1009	1/4HP/5.8A	115V	1PH	85	RESTROOMS AND SHOWERS	ROOF	(6)(7)(8)(11)
EF-3	GREENHECK	GB-141-4	1300	0.5"	1009	1/4HP/5.8A	115V	1PH	85	RESTROOMS AND SHOWERS	ROOF	(6)(7)(8)(11)
EF-4	GREENHECK	SP-B150	120	0.25"		48W	115V	1PH	15	STAFF TOILET	CEILING	(7)(9)
EF-5	GREENHECK	SP-B150	120	0.25"		48W	115V	1PH	15	STAFF TOILET	CEILING	(7)(9)
EF-6	GREENHECK	SP-B150	120	0.25"		48W	115V	1PH	15	ADA WOMEN BATH 7	CEILING	(7)(9)
EF-7	GREENHECK	SP-B150	120	0.25"		48W	115V	1PH	15	ADA MEN BATH 9	CEILING	(7)(9)
EF-8	GREENHECK	CSP-A410	300	0.25"	1000	130W	115V	1PH	30	STAFF MEETING ROOM	INLINE	(3)(10)

REMARKS:

(1) UPBLAST CENTRIFUGAL FAN, MOUNT ON HINGED AND RAISED CURB
(2) INTERLOCK WITH HOOD CONTROL PANEL & INTERLOCK WITH MAU-1 OPERATION, WIRING BY ELECT CONTRACTOR
(3) INTERLOCK WITH WALL SWITCH WITH PILOT LIGHT (BY ELECT CONTR.)
(4) UL 762 LISTING FOR GREASE HOOD APPLICATION.
(5) GREASE DRAIN TROUGH COLLECTOR
(6) PROVIDE BACKDRAFT DAMPER, ROOF CURB
(7) INTERLOCK WITH LIGHT SWITCH (BY ELECT CONTRACTOR)
(8) MUSHROOM FAN, MFR. ROOF CURB
(9) CEILING FAN WITH BOTTOM MOUNT GRILLE, WITH ROOF JACK AND VENT CAP, BACKDRAFT DAMPER.
(10) INLINE FAN, HANGER KIT WITH SPRING VIBR. ISOLATORS, WITH ROOF JACK AND VENT CAP, BACKDRAFT DAMPER.
(11) PERMATECTOR COATING

2

EXHAUST HOODS

MARK	TAG	MFR.	MODEL	EXHAUST CFM	MAKEUP AIR CFM	EXHAUST DUCT SIZE	EXHAUST S.P.	DIMENSIONS WIDTH	DIMENSIONS DEPTH	DIMENSIONS HEIGHT	SERVICE	REMARKS	TYPE 1	TYPE 2
H-1	#23	CAPTIVE AIRE	SEE M3.1 AND M3.2	3850	3465	36X10	0.99"	14-0"	54"	24"	KITCHEN COOKLINE	(1)(2)(3)(4)	X	

REMARKS AND ACCESSORIES:

(1) HOOD SHALL BE FURNISHED AND INSTALLED BY MECH CONTRACTOR. REFER TO M3.1 AND M3.2 FOR HOOD SHOP DRAWINGS.
(2) HOOD SHALL BE FURNISHED WITH ANSUL SYSTEM, AND HANGING WARDWARE.
(3) MECH CONTRACTOR SHALL FURNISH PREWIRED HOOD CONTROL PANEL SEE SHEET M3.4, THE PANEL SHALL BE INSTALLED BY CONTRACTOR AND FIELD WIRING BY ELECTRICAL CONTRACTOR INCLUDING INTERLOCK WITH ANSUL SYSTEM, EXH FAN, MAKEUP AIR UNIT, FIRE ALARM SYSTEM, SMOKE DETECTORS, GAS SOLENOID VALVE, SHUT TRIP BREAKERS. SEE SHEET M3.4 FOR WIRING DIAGRAMS.
(4) HOOD SHALL BE FURNISHED WITH STAINLESS STEEL MAKEUP AIR PLENUM IN FRONT OF HOOD WITH PERFORATED FACE GRILLES..

PACKAGE AIR CONDITIONING UNITS

SYMBOL	TONS	LOCATION	MANUF'R & MODEL NO.	ALTERNATE BID MFR & MODEL NO. SEE NOTE 8 BELOW	SERVICE	CFM	E.S.P.	REF.	COOLING TOTAL MBH	COOLING SENSIBLE MBH	COOLING EDB/EWB	HEATING AMB	HEATING INPUT MBH	HEATING OUTPUT MBH	ELECTRICAL VOLTS	ELECTRICAL PHASE	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL COMPR. FLA	SEER	AFUE	MIN. OSA CFM	LOCATION	WEIGHT (lbs)	HEIGHT WITH CURB	REMARKS
AC 1	6	ROOF	CARRIER 48TCDA07A	TRANE YSC-074	MEN EMERGENCY HOUSING	2,400	1.2"	R-410A	75	58	80/67	105°F	72	59	208	3	36	50	19.6	13.0	82%	600	ROOF	1000	55"	#1,2,3,4,5,7
AC 2	5	ROOF	CARRIER 48TCDA060A	TRANE YSC-063	MEN - MEDICAL RESPITE WOMEN - MEDICAL RESPITE	2,000	1.2"	R-410A	62	46	80/67	105°F	72	59	208	3	30	45	15.6	13.0	82%	500	ROOF	1000	48"	#1,2,3,4,5,7
AC 3	5	ROOF	CARRIER 48TCDA060A	TRANE YSC-063	TOILET ROOMS, SHOWERS, KITCHEN, CORRIDOR	2,000	1.2"	R-410A	62	46	80/67	105°F	72	59	208	3	30	45	15.6	13.0	82%	500	ROOF	1000	48"	#1,2,3,4,5,7
AC 4	6	ROOF	CARRIER 48TCDA07A	TRANE YSC-074	DINING/COMMONS	2,400	1.2"	R-410A	75	58	80/67	105°F	72	59	208	3	36	50	19.6	13.0	82%	600	ROOF	1000	55"	#1,2,3,4,5,7
AC 5	3	ROOF	CARRIER 48TCDA04	TRANE YSC-033	RECEPTION, COMPUTER ROOM	1,200	1.2"	R-410A	25	35	80/67	105°F	60	49	208	3	22	30	10.4	13.0	82%	360	ROOF	900	48"	#1,2,3,4,5,7
AC 6	6	ROOF	CARRIER 48TCDA07A	TRANE YSC-074	OFFICES AND STAFF MEETING ROOM	2,400	1.2"	R-410A	75	58	80/67	105°F	72	59	208	3	36	50	19.6	13.0	82%	600	ROOF	1000	55"	#1,2,3,4,5,7
AC 7	8.5	ROOF	CARRIER 48TCDD08C3	TRANE YSC-092	WOMEN TRANSITIONAL HOUSING WOMEN EMERGENCY HOUSING	3,400	1.2"	R-410A	105	81	80/67	105°F	125	103	208	3	45	50	28.2	13.0	82%	850	ROOF	1500	55"	#1,2,3,4,5,6
AC 8	4	ROOF	CARRIER 48TCDA05	TRANE YSC-043	MEN TRANSITIONAL HOUSING	1,600	1.2"	R-410A	45	33	80/67	105°F	72	59	208	3	23.8	30	13.7	13.0	82%	400	ROOF	900	48"	#1,2,3,4,5,7
AC 9	6	ROOF	CARRIER 48TCDA07A	TRANE YSC-074	TOILET ROOMS, SHOWERS, LAUNDRY, CORRIDOR, EXAM, OFFICE, LINEN	2,400	1.2"	R-410A	75	58	80/67	105°F	72	59	208	3	36	50	19.6	13.0	82%	600	ROOF	1000	55"	#1,2,3,4,5,7
AC 10	7.5	ROOF	CARRIER 48TCDD08C3	TRANE YSC-092	MEN TRANSITIONAL HOUSING	3,000	1.2"	R-410A	90	69	80/67	105°F	125	103	208	3	47	50	27.2	13.0	82%	750	ROOF	1150	55"	#1,2,3,4,5,6

NOTES:

1. SIDE SA DISCHARGE AND RETURN, HORIZONTAL 100% DIFF. DRYBULB ECONOMIZER, 2" FILTER WITH 30% EFFICIENCY, 100% POWER EXHAUST FAN, VARIABLE FREQUENCY DRIVE FOR SA FAN, DUCT SMOKE DETECTORS, LOW AMBIENT CONTROLS, FACTORY DISCONNECT SWITCH, HIGH EFF. FAN MOTOR, LOW 2-STAGE GAS HEAT, ECONOMIZER FAULT DETECTION, HIGH STATIC SUPPLY AIR FAN MOTORS.
2. PROVIDE NEW SMOKE DETECTORS TO BE INSTALLED IN MAIN S.A. DUCTS BY THE MECHANICAL SECTION, ELECTRICAL SECTION SHALL WIRE DUCT MOUNTED SMOKE DETECTORS. THE DUCT MOUNTED SMOKE DETECTOR SHALL SHUT DOWN EACH RESPECTIVE UNIT. DUCT SMOKE DETECTORS FURNISHED BY MC, INSTALLED BY MC AND WIRED BY EC. DUCT SMOKE DETECTORS SHALL HAVE REMOTE TEST/REST STATIONS. MC AND EC SHALL WIRE UNITS FOR GLOBAL SHUTDOWN SUCH THAT WHEN ONE UNIT DETECTS SMOKE, ALL UNITS SHALL SHUT DOWN SIMULTANEOUSLY - PROVIDE NECESSARY RELAYS AND CONTACTORS.
3. ALL ROOFTOP AC UNITS SHALL BE SET ON 14-INCH MFR. ROOF CURBS WITH SEISMIC HOLD DOWNS.
4. ALL FILTER SYSTEMS SHALL BE MINIMUM RATED FOR MERV 8 PER 2013 CALIFORNIA GREEN CODE.
5. PROVIDE PELICAN PROGRAMMABLE THERMOSTAT, MODEL TS200, WITH REMOET TEMP SENSORS MODEL TA1. PROVIDE PELICAN GATEWAY GW400 WIRELESS CONTROLLER, FACTORY STARTUP AND CUSTOMER TRAINING. LOCATE ALL THERMOSTATS IN OFFICE 18 OR AS DIRECTED BY OWNERS REPRESENTATIVE. MFR VENDOR CONTACT: MARK WILLENS, (925)963-4624, EMAIL: MARK@PELICANWIRELESS.COM
6. ECONOMIZER AND POWER EXHAUST FANS SHALL BE FIELD INSTALLED AND FIELD WIRED PER MFR INSTALLATION INSTRUCTIONS. THE UNIT SHALL BE MICROMETAL PECE-SRT34TA-2W1-D2DH WITH HONEYWELL ACTUATOR AND HONEYWELL JADE CONTROLS. ELECTRICAL CONTRACTOR SHALL PROVIDE SEPARATE LINE VOLTAGE POWER WIRING TO ASSEMBLY AT 208V-3PH, 7.0 MCA. 12.6 MOCP, 2 HP FAN MOTOR, SEE SHEET M3.6
7. ECONOMIZER AND POWER EXHAUST FANS SHALL BE FIELD INSTALLED AND FIELD WIRED PER MFR INSTALLATION INSTRUCTIONS. THE UNIT SHALL BE MICROMETAL PECE-SRT12TA-2W1-D2DH WITH HONEYWELL ACTUATOR AND HONEYWELL JADE CONTROLS. ELECTRICAL CONTRACTOR SHALL PROVIDE SEPARATE LINE VOLTAGE POWER WIRING TO ASSEMBLY AT 208V-3PH, 4.8 MCA. 8.6 MOCP, 1 HP FAN MOTOR, SEE SHEET M3.6
8. FOR THE ALTERNATE BID, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REDESIGN FOR THE PROJECT AS IT PERTAINS TO REDESIGN OF DUCTWORK, PIPING, GAS, ELECTRICAL, STRUCTURAL ENGINEERING, AND IMPACT TO ARCHITECTURAL DESIGN. THE ALTERNATE MANUFACTURER AC UNIT HAS DIFFERENT PHYSICAL DATA FROM SPECIFIED CARRIER UNITS, INCLUDING DUCT CONNECTION LAYOUTS ABOVE ROOF.

MAKEUP AIR UNIT SCHEDULES

MARK	MFR.	CFM	MODEL	S.P.	RPM	BHP	MOTOR HP	MOTOR Volts	MOTOR PH	MOTOR Amps	SERVICE	LOCATION	FAN TYPE IN-LINE	FAN TYPE ROOF MOUNT	FAN TYPE EVAP COOLED	FAN TYPE HEATING	WEIGHT LBS	REMARKS
MAU-1	CAPTIVE AIRE	3465	REFER TO SHEET M3.3 FOR EQUIPMENT INFORMATION								HOODS H-1,EF-1	ATTIC	X		X		492	(1)(2)(3)(4)(5)(6)(7)

REMARKS AND ACCESSORIES:

(1) INDOOR UNIT SIDE DISCHARGE - SEE M3.3
(2) PROVIDE EVAP COOLER, SPRING VIBRATION ISOLATORS
(3) PROVIDE MERV 8 FILTERS AND RACK
(4) INTERLOCK WITH HOOD CONTROL PANEL AND EF-1 - BY E.C.
(5) PROVIDE DUCT SMOKE DETECTORS AND AUTOMATIC SHUTOFF UPON SMOKE DETECTION, SEE NOTE #2 ABOVE FOR GLOBAL SHUTDOWN, PROVIDE REMOTE TEST AND RESET STATION.
(6) SET ABOVE 6x6 SLEEPERS IN ATTIC - SEE STRUCTURAL DRAWINGS. PROVIDE VIBREX MW SAUSSE RMU-EQ SPRING ISOLATORS WITH SEISMIC RESTRAINTS.
(7) PROVIDE GREENHECK GRSI-30 OUTSIDE AIR INTAKE HOOD WITH CURB AND BACKDRAFT DAMPERS.

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 HVAC EQUIPMENT, DUCTWORK AND CONTROLS SHALL BE TESTED AND COMMISSIONED.

2

GENERAL NOTES:

THESE DRAWINGS IS CREATED AS A SCHEMATIC MEANS OF COORDINATING THE VARIOUS TRADES CONTRACTORS THAT WILL BE PERFORMING WORK ABOVE THE SUSPENDED CEILING SYSTEMS IN THE PROJECT. THE DRAWING SHALL BE USED AS A REFERENCE SHEET ONLY AND SHALL NOT BE UTILIZED AS A FINAL SET OF CONSTRUCTION DRAWINGS, OR A DIMENSIONED SHOP DRAWING. DUE TO TIGHT CLEARANCES, ALL CONTRACTORS AND ALL TRADES SHALL INCLUDE IN THEIR BIDS THE NECESSARY TIME AND MATERIAL FOR COORDINATION EFFORTS TO AVOID CONFLICT DURING CONSTRUCTION BETWEEN TRADES AND THE DIFFERENT SYSTEMS SUCH AS DUCTWORK, HANGERS, PIPES, CONDUITS, REFRIGERANT LINES, PLUMBING LINES AND FIRE SPRINKLER LINES. THE GENERAL CONTRACTOR SHALL COORDINATE THE DIFFERENT TRADES AND SUB CONTRACTORS WITH PERIODIC SITE COORDINATION AND FIELD MEASUREMENT/ROUGH-IN MEETINGS TO ENSURE THE LACK OF CONFLICTS IN THE FIELD. THE SUB CONTRACTORS FOR THE DIFFERENT TRADES SHALL BE RESPONSIBLE FOR INITIAL SITE VISITS DURING BID PROCESS, AND THE COORDINATION EFFORTS AND DETAILED SHOP DRAWINGS TO SHOW FIELD CONDITIONS AND TO AVOID CONFLICTS WITH STRUCTURAL MEMBERS, CEILING HEIGHTS, LIGHTING FIXTURES AND OTHER EXISTING BASE BUILDING ELEMENTS. THE LACK OF DILIGENT COORDINATION EFFORTS AND LACK OF SITE VISITS AND FIELD MEASUREMENTS BEFORE START OF CONSTRUCTION AND BEFORE FABRICATION OF DUCTWORK, PIPING AND CONDUITS, SHALL NOT ENTITLE THE SUB CONTRACTORS TO CHANGE ORDERS. ANY DEVIATIONS OR ADJUSTMENTS FROM THIS DRAWING AS REQUIRED BY FIELD CONDITIONS OR ASBUILT CONDITIONS SHALL BE INCLUDED IN THE ORIGINAL BID PRICING FOR ALL TRADES INCLUDING CHANGES TO DUCT LAYOUTS, PIPING LAYOUTS, CONDUIT LAYOUTS, AND SUPPORT LOCATIONS.

ALL EQUIPMENT SHALL BE LISTED BY NATIONALLY RECOGNIZED TESTING LABORATORY ADN PROPERLY LABELED.

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.
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 THE CURRENT ISSUE OF THE CALIFORNIA MECHANICAL CODE.
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 LAND LORD UNLESS OTHERWISE NOTED. ALL CURBS AND SLEEPERS TO BE INSTALLED LEVEL WITH FINISH FLOOR. FACTORY CURBS BY MECHANICAL CONTRACTOR.
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. ALL HVAC AND PLUMBING SUPPORTS SHALL BE PER SMCNA STANDARD DETAILS.
12. PROVIDE STARTERS FOR ALL MECHANICAL EQUIPMENT, DISCONNECT SWITCH BY ELECTRICAL.
13. FABRICATE AND INSTALL RECTANGULAR AND ROUND DUCTWORK WITH GALVANIZED STEEL, IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS" OF THE LATEST EDITION.
14. COORDINATE DUCT ROUTING AND HEIGHTS WITH GENERAL CONTRACTOR. VERIFY ALL CLEARANCES BEFORE STARTING WORK.
15. THE CONTRACTOR FOR THIS DIVISION OF WORK IS REQUIRED TO READ THE SPECIFICATIONS AND REVIEW DRAWINGS FOR ALL DIVISIONS OF WORK AND IS RESPONSIBLE FOR THE COORDINATION OF THIS WORK AND THE WORK OF ALL SUBCONTRACTORS WITH ALL DIVISIONS OF WORK. IT IS THIS CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL SUBCONTRACTORS WITH A COMPLETE SET OF BID DOCUMENTS.
16. CONTRACTOR SHALL RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. NO ADDITIONAL CONPENSATION WILL BE MAKE FOR ANY EXTRAS DUE TO CONTRACTOR'S FAILURE TO VISIT THE JOBSITE AND/OR HIS BID. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO ENGINEER FOR RESOLUTION.

CALGREEN 2013 NOTES:

5.410.4 THROUGH 5.410.4.5.1
DEVELOP AND IMPLEMENT A PLAN OF PROCEDURES FOR TESTING AND ADJUSTIN NEW SYSTEMS, INCLUDING (AS APPLICABLE); HVAC, INDOOR AND OUTDOOR LIGHTING AND CONTROLS, WATER HEATING, RENEWABLE ENERGY, LANDSCAPE IRRIGATION, AND WATER REUSE SYSTEMS.
BALANCE NEW HVAC SYSTEMS BEFORE OPERATION FOR NORMAL USE.
PROVIDE THE OWNER OR REPRESENTATIVE WITH A FINAL REPORT OF TESTING.
PROVIDE THE BUILDING REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF ALL GUARANTEES/ WARRANTIES FOR EACH SYSTEM.

5.504.1.3 and 5.504.3
COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUCT OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM. PROTECT DUCT OPENINGS ANBD MECHANICAL EQUIPMENT DURING CONSTRUCTION. LIMIT USE OF PERMANENT HVAC DURING CONSTRUCTION TO CONDITIONING NECESSARY FOR MATERIAL AND EQUIPMENT INSTALLATION. IF PERMANENT HVAC IS USED DURING CONSTRUCTION, INSTALL MERV-8 FILTERS ON RETURNS, AND REPLACE ALL FILTERS IMMEDIATEOLY PRIOR TO OCCUPANCY, OR , IF THE BUILDING IS OCCUPIED DURING ALTERATION, AT THE CONCLUSION OF CONSTRUCTION.

504.5.3 AND 5.504.5.3.1:
AIR FILTRATION: PROVIDE AT LEAST MERV-8 FIXTERS IN REGULARLY OCCUPIED SPACES OF MECHANICALLY VENTILATED BUILDINGS. INSTALLED FILTERS MUST BE CLEARLY LABELED BY THE MANUFACTURER INDICATING THE MERV RATING, AND FILTER SPECIFICATION SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL.

LEGEND

SYMBOL	ABBR.	DESCRIPTION
		SUPPLY AIR DUCT UP
		EXHAUST AIR DUCT UP
		RETURN AIR DUCT UP
		RETURN/EXHAUST/SUPPLY DUCT
		MVD MANUAL VOLUME DAMPER
		FLEXIBLE DUCT, 6'-0" LONG MAX.
	CD	CEILING SUPPLY DIFFUSER
	CER	CEILING EXHAUST REGISTER
	CRR	CEILING RETURN REGISTER
		ACOUSTICALLY INSULATED DUCT
T	T'STAT	THERMOSTAT
S		SENSOR
M		MECHANICAL CONTRACTOR
E		ELECTRICAL CONTRACTOR
KEC		KITCHEN EQUIPMENT CONTRACTOR
BD	BD	BACKDRAFT DAMPER
SD	SD	SMOKE DETECTOR
F1		ONE HOUR FIRE DAMPER
F3		THREE HOUR FIRE DAMPER
S/F		COMBINATION FIRE/SMOKE DAMPER
	POC	POINT OF CONNECTION
U		UNDERCUT DOOR
		TO BE REMOVED
	AC	AIR CONDITIONING
	AFF	ABOVE FINISH FLOOR
	AHU	AIR HANDLING UNIT
	CB	CIRCUIT BREAKER
	CLG.	CEILING
	CD	CONDENSATE DRAIN
	CONN.	CONNECT/CONNECTION
	CONT.	CONTINUATION
	CFM	CUBIC FEET PER MINUTE
	DET.	DETAIL
	DISC.	DISCONNECT
	DTR	DOWN THRU ROOF
	EF	EXHAUST FAN
	(E)	EXISTING
	E.S.P.	EXTERNAL STATIC PRESSURE
	FC	FAN COIL
	G.C.	GENERAL CONTRACTOR
	HVAC	HEATING, VENTILATING, AIR CONDITIONING
	LL/L.L.	LANDLORD
	MAU	MAKE-UP AIR UNIT
	MCA	MINIMUM CIRCUIT AMPACITY
	MECH.	MECHANICAL
	MFR.	MANUFACTURER
	MOCP	MAXIMUM OVER CURRENT PROTECTION
	(N)	NEW
	OA/OSA	OUTSIDE AIR
	OBD	OPPOSED BLADE DAMPER
	(A)	RELOCATED
	RNA	ROUND NECK ADAPTOR
	S/S	STAINLESS STEEL
	T.S.P.	TOTAL STATIC PRESSURE
	UON	UNLESS OTHERWISE NOTED

DRAWING SCHEDULES

M0.1 LEGEND, NOTES AND SCHEDULES
M0.2 MECHANICAL SPECIFICATIONS
M2.1 HVAC FLOOR PLAN - GND FLOOR
M2.2 HVAC FLOOR PLAN - 2ND FLOOR
M2.3 HVAC ROOF PLAN - DEMOLITION
M2.4 HVAC ROOF PLAN - NEW WORK
M3.1 HOOD EQUIPMENT SHOP DRAWINGS
M3.2 HOOD EQUIPMENT SHOP DRAWINGS
M3.3 HOOD SHOP DRAWINGS
M3.4 HOOD SHOP DRAWINGS
M3.5 MECHANICAL DETAILS
M3.6 MECHANICAL DETAILS
M3.7 3M 615+ FIRE WRAP DETAILS
M3.8 HVAC DETAILS AND CONTROLS
M4.1 MECH TITLE 24 CALCULATIONS
M4.2 MECH TITLE 24 CALCULATIONS
M4.3 MECH TITLE 24 CALCULATIONS

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

LEGEND, NOTES SCHEDULES

◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: M0.1

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.

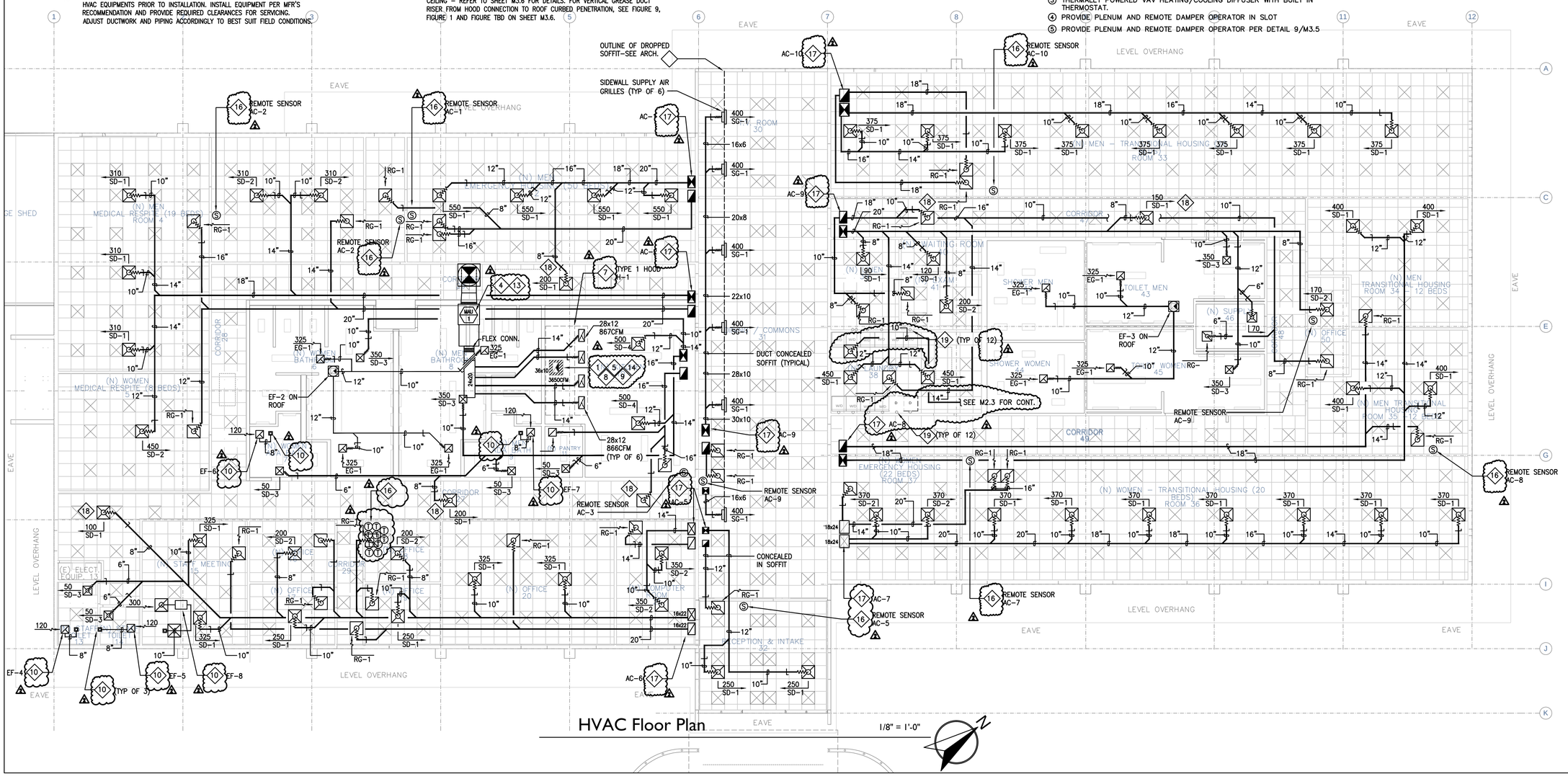
KEYED SHEET NOTES:

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.

AIR DEVICE SCHEDULE

SYMBOL (1) (2)	MANUFACTURER/ CATALOG NUMBER	SERVICE	NOMINAL SIZE MOD.	NOMINAL SIZE NECK	MOUNTING CEILING	MOUNTING SIDEWALL	MATERIAL STEEL	MATERIAL ALUM.	FINISH	BORDER	REMARKS
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	①②
SD–4	THERMAFUSER TF–4HC	CEILING SUPPLY AIR	24"X24"	SHOWN ON PLAN	●		●		#44 WHITE	LAY–IN MOUNT	①②③
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	①②
EG–1	TITUS PAR	RESTROOMS EXHAUST AIR	12"X12"	SHOWN ON PLAN	●		●		#44 WHITE	LAY–IN MOUNT	①②③
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
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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

HVAC Floor Plan

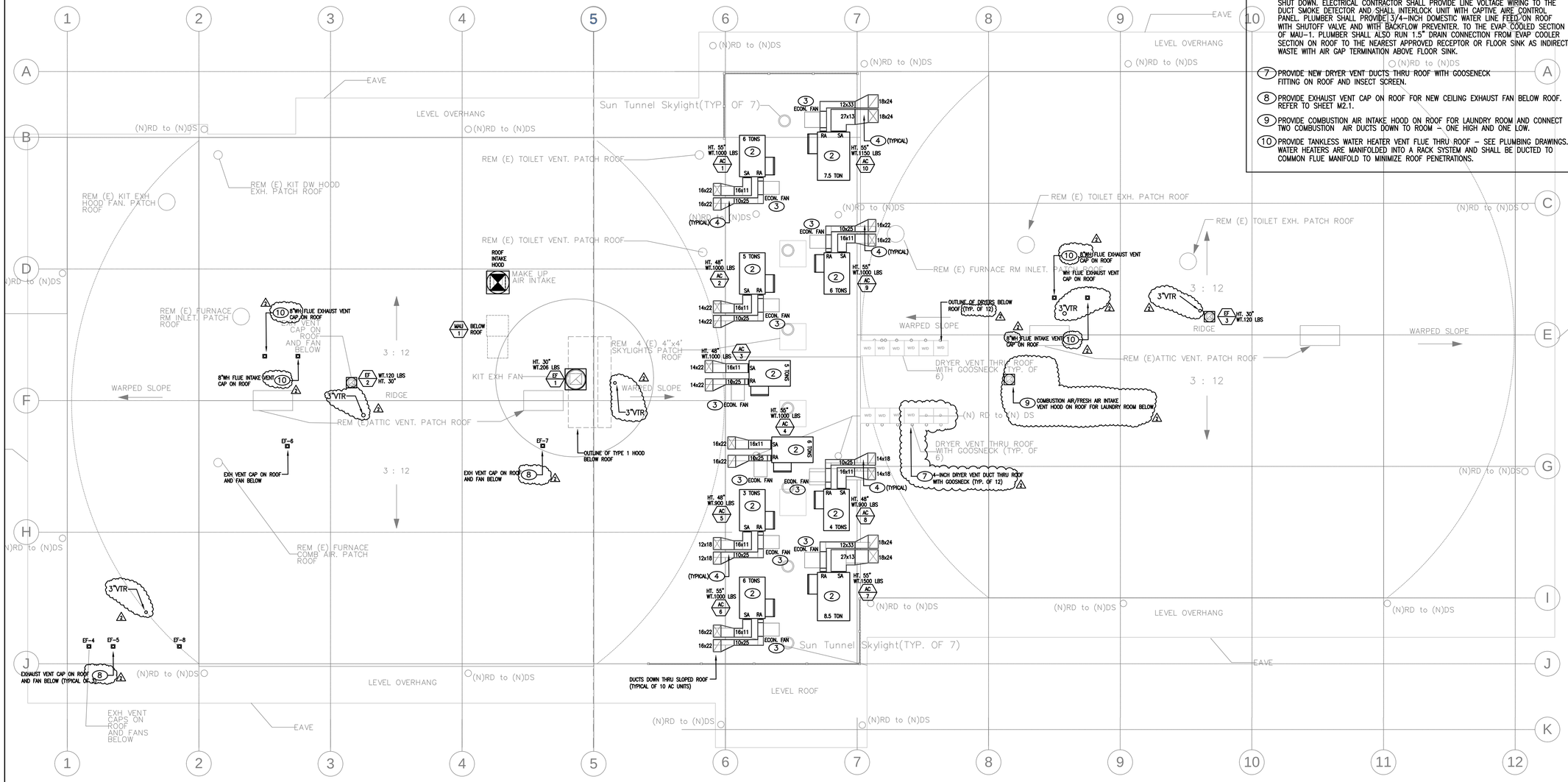
◦ REVISIONS ◦

No.	Date	Notes
2	6.17.16	BLD□ SUBMITTAL 1
	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: M2.1



HVAC Roof Plan

1/8" = 1'-0"

KEYED SHEET NOTES:

1. DEMOLISH AND REMOVE EXISTING EQUIPMENT ON ROOF, PATCH ROOF WEATHERTIGHT. REFER TO ARCHITECTURAL PLANS.
2. NEW PACKAGE UNITS ON ROOF ON MFR. CURBS – SEE STRUCTURAL ENGINEER DRAWINGS.
3. INSTALL NEW ECONOMIZER/POWER EXHAUST FAN MODULES IN NEW RA DUCTWORK PER MFR INSTALLATION INSTRUCTIONS – SEE SHEET M3.6 FOR DETAILS AND CUT SHEETS. PROVIDE ANGLE IRON SUPPORTS AS REQUIRED AT BOTTOM OF UNIT TO ROOF SURFACE.
4. FURNISH AND INSTALL NEW FULLSIZE S.A. AND R.A. DUCTS ABOVE ROOF FOR NEW PACKAGE UNITS. PROVIDE INSULATED ACOUSTICAL INTERNAL LINING FOR EXPOSED DUCTS ABOVE ROOF. PROVIDE FLEXIBLE DUCT CONNECTORS. PROVIDE TRANSITIONS AS REQUIRED TO CONNECT TO NEW ROOF DUCT PENETRATIONS.
5. FURNISH AND INSTALL NEW EXHAUST FAN ON MFR ROOF CURB. REFER TO SHEET M3.2 FOR DETAIL.
6. FURNISH AND INSTALL NEW MAKEUP AIR UNIT ON ROOF. PROVIDE MFR ROOF CURB AS SHOWN ON SHEET M3.2 ALONG WITH ADDITIONAL METAL SUPPORT LEGS THAT CAN BE SET ABOVE 6X6 REDWOOD SLEEPERS. PROVIDE BOTTOM DUCT CONNECTION AND DUCT SMOKE DETECTOR MOUNTED IN MAKEUP AIR DUCT. INTERLOCK UNIT WITH DUCT SMOKE DETECTOR SUCH THAT IF THE SMOKE DETECTOR TRIPS, THE UNIT SHALL SHUT DOWN. ELECTRICAL CONTRACTOR SHALL PROVIDE LINE VOLTAGE WIRING TO THE DUCT SMOKE DETECTOR AND SHALL INTERLOCK UNIT WITH CAPTIVE AIRE CONTROL PANEL. PLUMBER SHALL PROVIDE 3/4–INCH DOMESTIC WATER LINE FEED ON ROOF WITH SHUTOFF VALVE AND WITH BACKFLOW PREVENTER. TO THE EVAP COOLED SECTION OF MAU–1. PLUMBER SHALL ALSO RUN 1.5" DRAIN CONNECTION FROM EVAP COOLER SECTION ON ROOF TO THE NEAREST APPROVED RECEPTOR OR FLOOR SINK AS INDIRECT WASTE WITH AIR GAP TERMINATION ABOVE FLOOR SINK.
7. PROVIDE NEW DRYER VENT DUCTS THRU ROOF WITH GOOSENECK FITTING ON ROOF AND INSECT SCREEN.
8. PROVIDE EXHAUST VENT CAP ON ROOF FOR NEW CEILING EXHAUST FAN BELOW ROOF. REFER TO SHEET M2.1.
9. PROVIDE COMBUSTION AIR INTAKE HOOD ON ROOF FOR LAUNDRY ROOM AND CONNECT TWO COMBUSTION AIR DUCTS DOWN TO ROOM – ONE HIGH AND ONE LOW.
10. PROVIDE TANKLESS WATER HEATER VENT FLUE THRU ROOF – SEE PLUMBING DRAWINGS. WATER HEATERS ARE MANIFOLDED INTO A RACK SYSTEM AND SHALL BE DUCTED TO COMMON FLUE MANIFOLD TO MINIMIZE ROOF PENETRATIONS.

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

Lighting Plan

◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

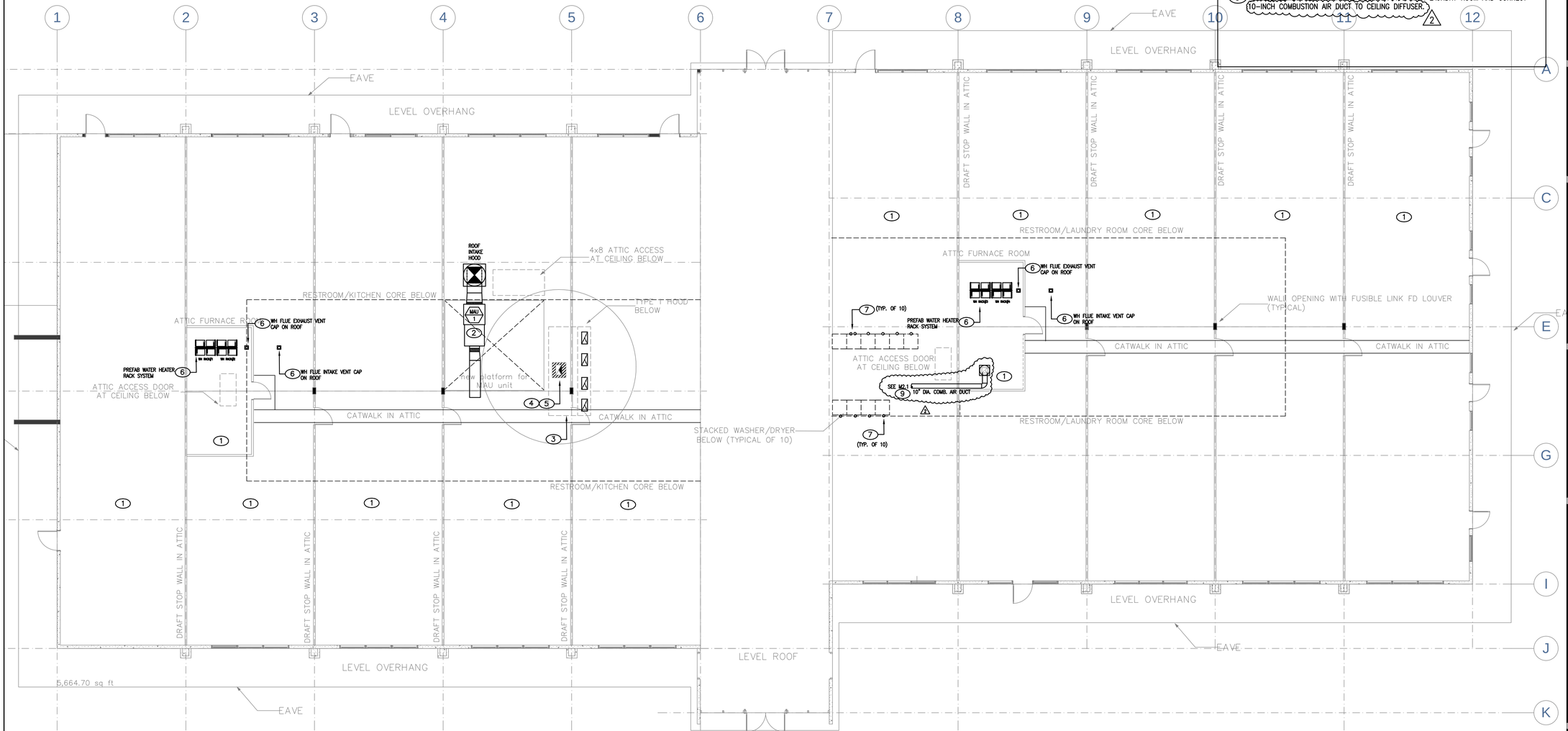
◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: M2.2

KEYED SHEET NOTES:

1. DEMOLISH AND REMOVE EXISTING EQUIPMENT AND DUCTWORK AND PIPING IN ATTIC SPACE – VERIFY CONDITIONS IN FIELD.
2. NEW MAKEUP AIR UNIT IN ATTIC, SET ON 6X6 SLEEPERS – SEE STRUCTURAL PLANS. PROVIDE MW SAUSSE VIBREX SPRING ISOLATORS WITH SEISMIC RESTRAINTS. PROVIDE SHEET METAL DRAIN PAN BELOW UNIT. PLUMBER SHALL RUN 3/4" DRAIN LINE FROM PAN THRU CEILING WITH ESCUTCHEON AND TERMINATE AT CEILING ABOVE SINK.
3. OUTLINE OF TYPE 1 HOOD BELOW SHOWN FOR REFERENCE.
4. GREASE DUCT RISER WITH FIRE RATED WRAP ENCLOSURE – SEE SHEET M2.1. PROVIDE CLEANOUT OPENING IN ATTIC SPACE, BELOW ROOF.
5. FURNISH AND INSTALL NEW EXHAUST FAN ON MFR ROOF CURB. REFER TO SHEET M2.2 FOR CONTINUATION.
6. TANKLESS WATER HEATERS BY PLUMBER – SEE PLUMBING DRAWINGS. WATER HEATERS ARE MANIFOLDED INTO A RACK SYSTEM AND SHALL BE FACTORY ASSEMBLED AND PREPIPED AND PREWIRED. THE MECH CONTRACTOR SHALL INSTALL THE PVC FLUE VENTING MANIFOLD (FURNISHED BY PLUMBER AS A KIT) AND SHALL INSTALL CONNECTIONS TO EACH WATER HEATER. PROVIDE VENT TERMINATION THRU ROOF. THERE SHALL BE TWO 8-INCH MANIFOLDS AND MAINS SHARED WITH THE TWO SIDE BY SIDE RACK SYSTEMS, 4 WATER HEATERS PER RACK, TWO RACKS PER GROUP AS SHOWN. ONE 8-INCH MANIFOLD AND FLUE VENT THRU ROOF SHALL BE UTILIZED FOR EXHAUST VENT AND ONE SHALL BE USED FOR COMBUSTION AIR INTAKE. INSTALL FLUES PER MANUFACTURER INSTALLATION INSTRUCTIONS AND PROVIDE SEPARATION ON ROOF PER MFR INSTRUCTIONS. PROVIDE SLOPED ROOF FLASHING AND ROOF JACK, AND PROVIDE RAIN CAP FOR INTAKE VENT CAP. PAINT VENTS AND CAP PER ARCHITECTS INSTRUCTIONS.
7. PROVIDE NEW DRYER VENT DUCTS THRU ATTIC SPACE AND UP THRU ROOF WITH GOOSENECK DUCT FITTING ON ROOF AND INSECT SCREEN. DRYER VENT DUCTS SHALL BE RIGID ALUMINUM CONSTRUCTION PER CMC 2013. PROVIDE ROOF JACK, FLASHING AND GOOSENECK FITTING ON ROOF WITH INSECT SCREEN.
8. PROVIDE EXHAUST VENT CAP ON ROOF FOR NEW CEILING EXHAUST FAN BELOW ROOF. REFER TO SHEET M2.1.
9. PROVIDE COMBUSTION AIR INTAKE HOOD ON ROOF FOR LAUNDRY ROOM AND CONNECT 10-INCH COMBUSTION AIR DUCT TO CEILING DIFFUSER.



HVAC ATTIC PLAN

1/8" = 1'-0"

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

HVAC ATTIC PLAN

◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: M2.3

HOOD INFORMATION – Job#2594520

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM RISER(S) TOTAL EXH. CFM	WIDTH	LENG.	DIA.	CFM	S.P.	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG. END TO END	ROW
1		5424 ND-2-PSP-F	14' 0.00"	600 Deg.	3850	10"	36"		3850	-0.999"	3465	430 SS Where Exposed	ALONE	ALONE

NOTE: MODEL ND-2 IS AN ETL LISTED HOOD
ETL LISTIN□ IS 200 CFM/FT (600 DE□REES)
□ □ETL LISTIN□ □14□0" □2800 CFM □3850 CFM (DESI□N)
MODEL ND-2 IS ETL LISTED WITH 1 E□ RISER UP TO 16□

HOOD INFORMATION

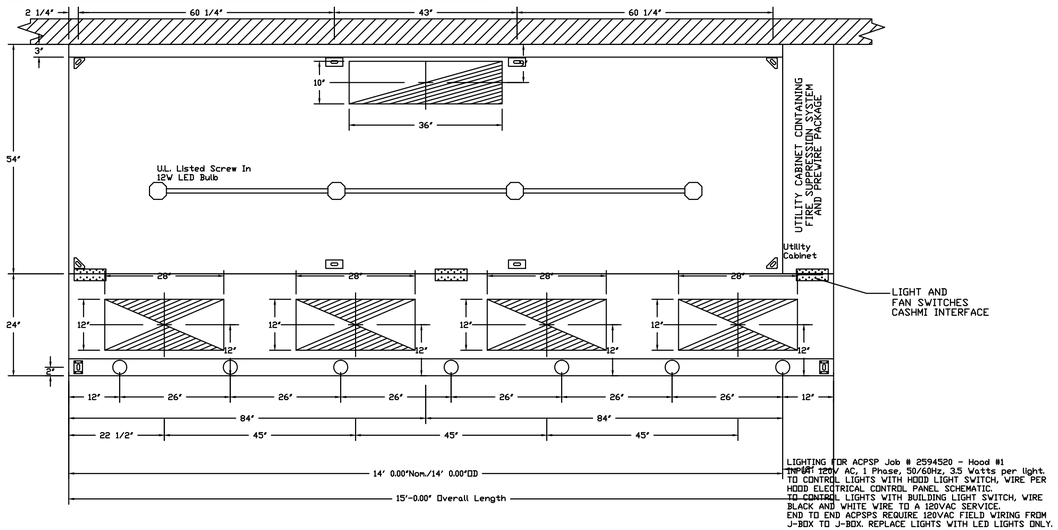
HOOD NO.	TAG	FILTER(S) TYPE	QTY.	HEIGHT	LENGTH	EFFICIENCY @ 9 MICRONS	LIGHT(S) QTY.	TYPE	WIRE GUARD	LOCATION	UTILITY CABINET(S) FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WGHT
1		Captrate Solo Filter	10	20"	16"	93% See Filter Spec.	4	Screw In 12W LED	NO	Right	Ansul R102	3.0/3.0	SC-31111002	1 Light 1 Fan	YES	963 LBS

HOOD OPTIONS

HOOD NO.	TAG	OPTION
1		FIELD WRAPPER 16.00" High Front, Left, Right
		BACKSPLASH 80.00" High X 180.00" Long 430 SS Vertical
		RIGHT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23" High 430 SS
		LEFT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23" High 430 SS

PERFORATED SUPPLY PLENUM(S)

HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG.	DIA.	CFM	S.P.
1		Front	180"	24"	6"	MUA	12"	28"		866	0.276"
						MUA	12"	28"		866	0.276"
						MUA	12"	28"		866	0.276"
						MUA	12"	28"		866	0.276"



LIGHTING FOR ACPSP Job # 2594520 – Hood #1
INPUT 120V AC, 1 Phase, 50/60Hz, 3.5 Watts per light.
TO CONTROL LIGHTS WITH HOOD LIGHT SWITCH, WIRE PER HOOD ELECTRICAL CONTROL PANEL SCHEMATIC.
TO CONTROL LIGHTS WITH BUILDING LIGHT SWITCH, WIRE BLACK AND WHITE WIRE TO A 120VAC SERVICE.
END TO END ACPSPS REQUIRE 120VAC FIELD WIRING FROM J-BOX TO J-BOX. REPLACE LIGHTS WITH LED LIGHTS ONLY.

PLAN VIEW – Hood #1
14' 0.00" LONG 5424ND-2-PSP-F
NOTE: Additional hanging angles provided for hoods 12' and longer.

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

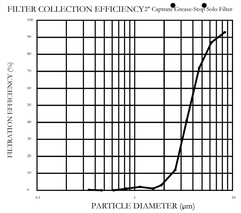
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

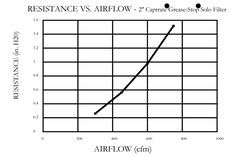
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 90% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05.

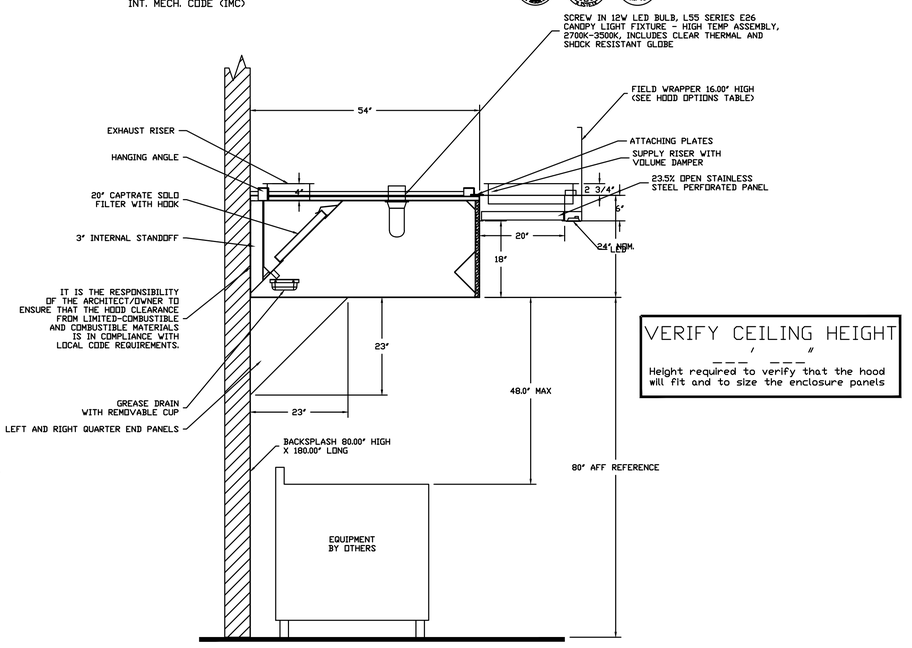
FILTER COLLECTION EFFICIENCY 2" Captrate Grease-Stop Solo Filter



RESISTANCE VS. AIRFLOW - 2" Captrate Grease-Stop Solo Filter



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96
NSF STANDARD #2
UL STANDARD #1046
INT. MECH. CODE (IMC)

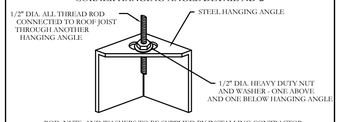


SECTION VIEW – MODEL 5424ND-2-PSP-F HOOD – #1

VERIFY CEILING HEIGHT
___' ___"
Height required to verify that the hood will fit and to size the enclosure panels

DEMONSTRATIONS ARE AVAILABLE AT THE CALIFORNIA BAY AREA DISPLAY CENTER FOR PRICES AND QUESTIONS, CALL
DANNY NG
REFERENCE JOB# 2594520
REG91@CAPTIVEAIRE.COM
PHONE: (415) 956-2200 FAX: (919) 227-5940

CORNER HANGING ANGLE DETAIL ND-2



ROD, NUTS, AND WASHERS TO BE SUPPLIED BY INSTALLING CONTRACTOR
HANGING ANGLE IS PRE-PUNCHED AT FACTORY

FOR QUESTIONS, CALL THE CAPTIVE-AIRE SYSTEMS CENTRAL CALIFORNIA OFFICE

Region 91

8 ADRIAN COURT
BURLINGAME, CA 94010
PHONE: (415) 956-2200
EMAIL: REG91@CAPTIVEAIRE.COM

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH

NFPA #96
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804-001

CAPTRATE & KLEEN-GARD FILTERS ARE BUILT IN COMPLIANCE WITH

NFPA #96
NSF STANDARD #2
UL STANDARD #1046
INT. MECH. CODE (IMC)

REVISIONS

	DESCRIPTION	DATE:
△		
△		
△		
△		

CAPTIVE-AIRE
CENTRAL CA
8 Adrian Court, Burlingame, CA, 94010 PHONE: (415) 956-2200 FAX: (919) 227-5940 EMAIL: reg91@captiveaire.com
www.captiveaire.com

LifeMoves Maple Street Shelter
1580 MAPLE STREET,
REDWOOD CITY, CA, 94063

DATE: 3/11/2016
DWG.#: 2594520
DRAWN BY:
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 1

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

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∘ PROJECT ∘

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

∘ SHEET TITLE ∘

Hood Shop Drawings

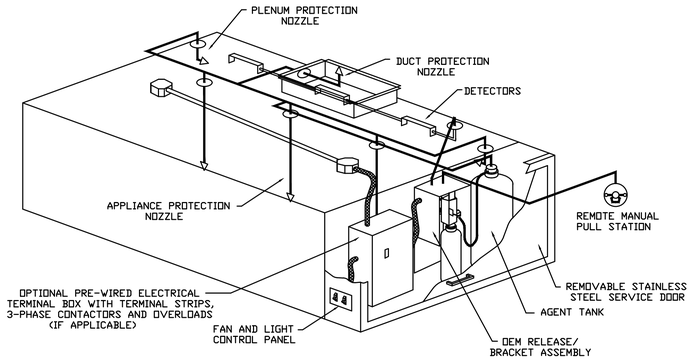
∘ REVISIONS ∘

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
△2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

∘ JOB: 2015.2801
∘ DATE: 06/17/16
∘ SHEET: M3.1

Fire System Information – Job#2594520

FIRE SYSTEM NO.	Tag	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		Ansul R102	3.0/3.0	22	Fire Cabinet Right	Right



TYPICAL ANSUL R-102 SYSTEM LAYOUT

DEMONSTRATIONS ARE AVAILABLE AT THE CALIFORNIA BAY AREA DISPLAY CENTER FOR PRICES AND QUESTIONS, CALL
DANNY NG
REFERENCE JOB# 2594520
REG91@CAPTIVEAIRE.COM
PHONE: (415) 956-2200 FAX: (919) 227-5940

ND-2 Series with PSP Accessory Specification

The model ND-2 with PSP Accessory is a compensating canopy hood rated for all types of cooking equipment. The hood shall have the size, shape and performance specified on drawings.

Construction shall be type 430 stainless steel, with a #3 or #4 polish where exposed. The manufacturer, ETL and NSF shall determine the individual component construction. Construction shall be dependent on the structural application to minimize distortion and other defects. All seams, joints and penetrations of the hood enclosure to the lower outermost perimeter that directs and captures grease-laden vapor and exhaust gases shall have a liquid-tight continuous external weld in accordance with NFPA 96. The hood shall be wall type with a minimum of four connections for hanger rods. Connectors shall have 9/16" holes pre-punched in 1 ½" x 1 ½" angle iron at the factory to allow for hanger rod connection by others.

The hood shall be furnished with U.L. classified filters, supplied in size and quantity as required by ventilator.
The filters shall extend the full length of the hood and the filler panels shall not be more than 6" in width.

The hood manufacturer shall supply complete computer generated submittal drawings including hood sections view(s) and hood plan view(s). These drawings must be available to the engineer, architect and owner for their use in construction, operation and maintenance.

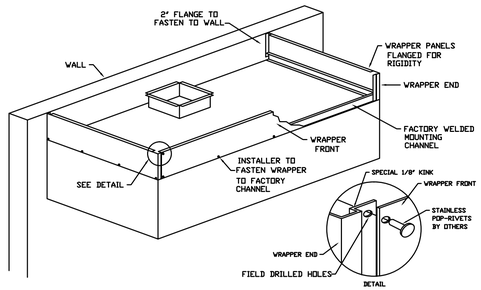
Exhaust duct collar to be 4" high with 1" flange. Duct sizes, CFM and static pressure requirements shall be as shown on drawings. Static pressure requirements shall be precise and accurate; air velocity and volume information shall be accurate within 1-ft increments along the length of the ventilator.

U.L. incandescent light fixtures and globes shall be installed and pre-wired to a junction box. The light fixtures shall be installed with a maximum of 4'0" spacing on center and allow up to a 100 watt standard light bulb.

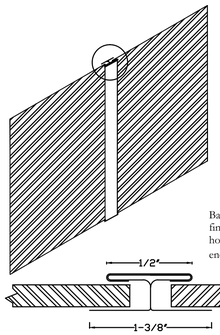
The hood shall have:
- A double wall insulated front to eliminate condensation and increase rigidity. The insulation shall have a flexural modulus of 475 E1, meet UL 181 requirements and be in accordance with NFPA 90A and 90B.
- An integral front baffle to direct grease laden vapors toward the exhaust filter bank.
- A built-in wiring chase provided for outlets and electrical controls on the hood face and shall not penetrate the capture area or require an external chase way.
- Removable grease cup for easy cleaning.

The hood shall be ETL Listed as "Exhaust Hood Without Exhaust Damper", NSF Listed and built in accordance with NFPA 96.

The hood shall be listed for 450°F cooking surfaces at 150 CFM/Ft, 600°F cooking surfaces at 200 CFM/Ft, and 700°F cooking surfaces at 250 CFM/Ft. The hood shall be ETL Listed as "Exhaust Hood Without Exhaust Damper".



FIELD WRAPPER

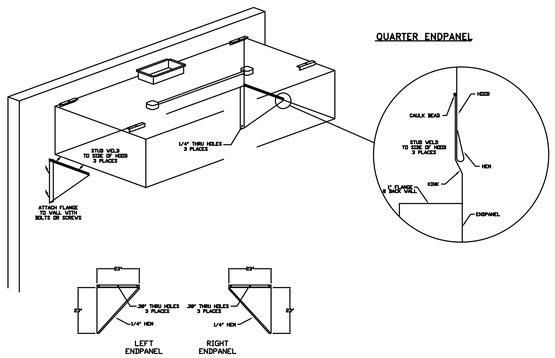


Stainless Steel Backsplash and Sidesplash

Backsplash is to be manufactured from #3 or #4 finish S/S of the same guage and material as the hoods. It will be supplied with Batton strips and end strips as needed to close all seams and edges.



Batton Strip Detail



REVISIONS

	DESCRIPTION	DATE:
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△		
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CENTRAL CA
8 Adrian Court, Burlingame, CA, 94010 PHONE: (415) 956-2200 FAX: (919) 227-5940 EMAIL: reg91@captiveaire.com
www.captiveaire.com

LifeMoves Maple Street Shelter
1580 MAPLE STREET,
REDWOOD CITY, CA, 94063

DATE: 3/11/2016

DWG.#: 2594520

DRAWN BY:

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 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

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

Hood Shop Drawings

◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: M3.2

EXHAUST FAN INFORMATION – Job#2594520

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	ø	VOLT	FLA	WEIGHT (LBS.)	SONES
1		NCA18FA	3850	1.350	1061	2.000	1.4990	3	208	5.9	206	15.8

MUA FAN INFORMATION – Job#2594520

FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLOWER	HOUSING	CFM	ESP.	RPM	H.P.	B.H.P.	ø	VOLT	FLA	EVAP COOLER ENTERING DB TEMP.	EVAP COOLER ENTERING WB TEMP.	EVAP COOLER LEAVING DB TEMP.	EVAP COOLER LEAVING WB TEMP.	WEIGHT (LBS.)	SONES
2		A2-G15	G15-PB	A2	3465	0.500	757	1.500	1.2660	3	208	4.6	90.0°F	65.0°F	72.0°F	65.0°F	492	15.2

FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. – Descr.)
1		1 – Grease Box
2		1 – Evaporative Cooler Wiring Harness
		1 – A 2 Indoor Hanging Option – Includes 2 HSA125 Hanging Spring Isolators per Uni-Strut

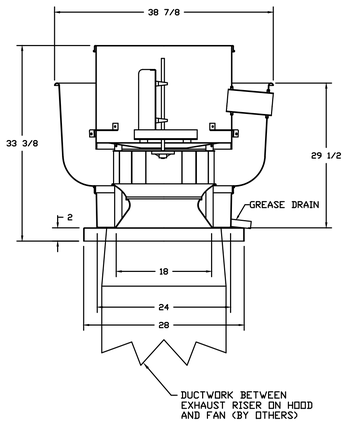
FAN ACCESSORIES

FAN UNIT NO.	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1		YES						
2					YES			

CURB ASSEMBLIES

NO.	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	41 LBS	Curb	26.500"W x 26.500"L x 20.000"H Vented Hinged
2	# 2	42 LBS	Curb	31.000"W x 31.000"L x 20.000"H
	# 2		Rail	4.000"W x 4.000"L x 36.000"H

FAN #1 NCA18FA – EXHAUST FAN



FEATURES:

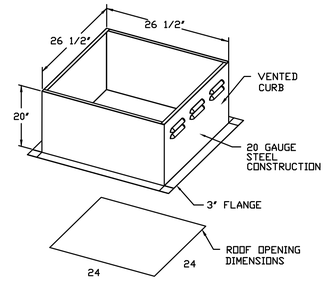
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- AMCA SOUND AND AIR CERTIFIED
- WIRING FROM MOTOR TO DISCONNECT SWITCH
- WEATHERPROOF DISCONNECT
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

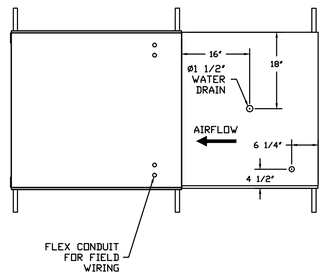
ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

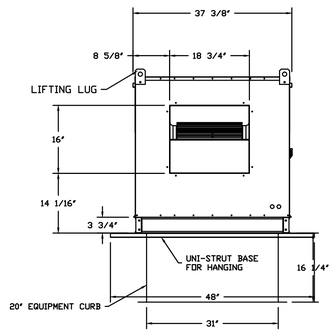
OPTIONS

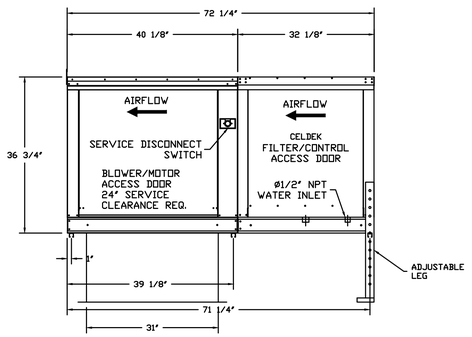
GREASE BOX

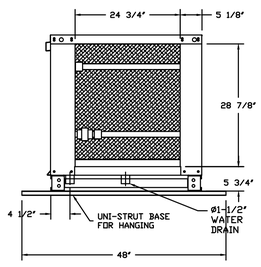


FAN #2 A2-G15 – SUPPLY FAN
1. UNTEMPERED SUPPLY UNIT WITH 15" BLOWER IN SIZE #2 HOUSING
2. EVAP COOLER (CELDEK) – INDOOR
3. SIDE DISCHARGE – AIR FLOW RIGHT -> LEFT
4. 120V WIRING CONNECTION TO ENERGIZE EVAPORATIVE COOLERS FROM UNTEMPERED SUPPLY FANS.
5. INDOOR HANGING CRADLE FOR THE SIZE 2 UNTEMPERED UNIT. 2 HSA125 HANGING ISOLATORS PER UNI-STRUT INCLUDED.









DEMONSTRATIONS ARE AVAILABLE AT THE CALIFORNIA BAY AREA DISPLAY CENTER
FOR PRICES AND QUESTIONS, CALL
DANNY NG
REFERENCE JOB# 2594520
REG91@CAPTIVEAIRE.COM
PHONE: (415) 956-2200 FAX: (919) 227-5940

REVISIONS

	DESCRIPTION	DATE:
△		
△		
△		
△		

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LifeMoves Maple Street Shelter
1580 MAPLE STREET,
REDWOOD CITY, CA, 94063

DATE: 5/5/2016

DWG.#: 2594520

DRAWN BY:

SCALE: 3/4" = 1'–0"

MASTER DRAWING

SHEET NO. 3

CJ W ARCHITECTURE
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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

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

Hood Equipment Details

◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

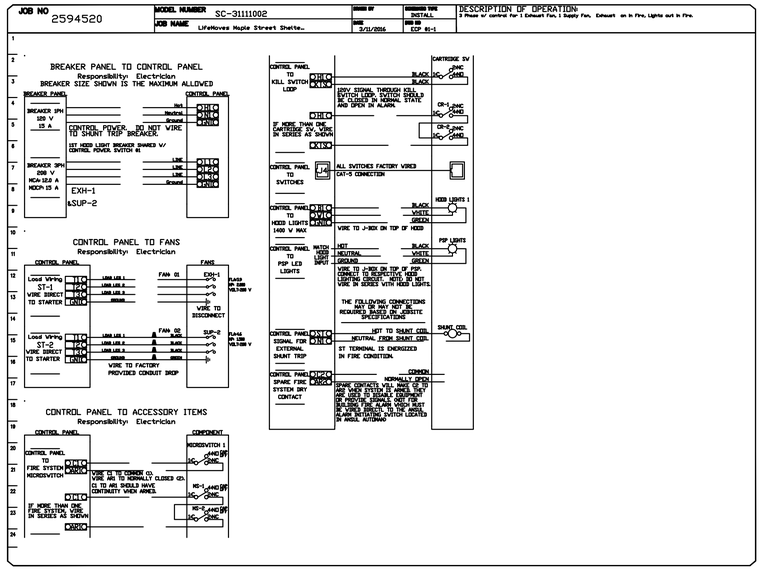
◦ JOB: 2015.2801

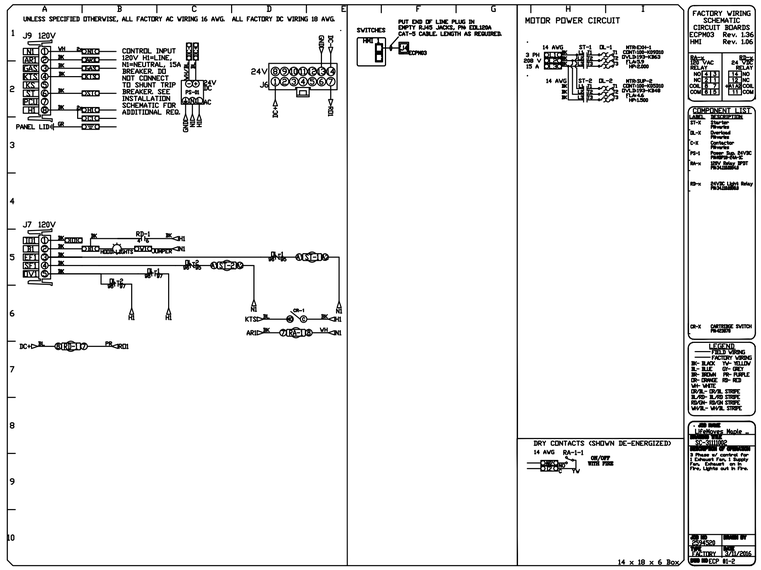
◦ DATE: 06/17/16

◦ SHEET: M3.3

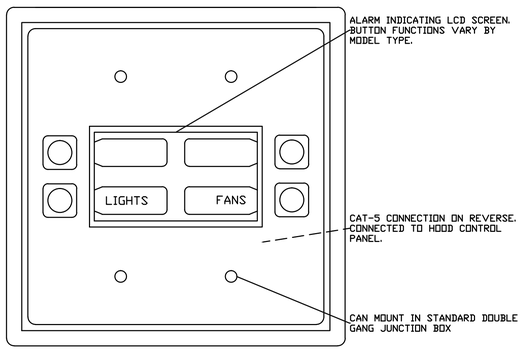
ELECTRICAL PACKAGES – Job#2594520

NO.	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	ø	H.P.	VOLT	FLA
1		SC-31111002	Utility Cabinet Right	Utility Cabinet Right	1 Light	Smart Controls Basic	Exhaust	3	2.000	208	5.9
				Hood # 1	1 Fan		Supply	3	1.500	208	4.6





HOOD CONTROL PACKAGE INTERFACE
with LCD Screen



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System Design Verification (SDV)

If ordered, CAS Service will perform a System Design Verification (SDV) once all equipment has had a complete start up per the Operation and Installation Manual. Typically, the SDV will be performed after all inspections are complete.

Any field related discrepancies that are discovered during the SDV will be brought to the attention of the general contractor and corresponding trades on site. These issues will be documented and forwarded to the appropriate sales office. If CAS Service has to resolve a discrepancy that is a field issue, the general contractor will be notified and billed for the work. Should a return trip be required due to any field related discrepancy that cannot be resolved during the SDV, there will be additional trip charges.

During the SDV, CAS Service will address any discrepancy that is the fault of the manufacturer. Should a return trip be required, the general contractor and appropriate sales office will be notified. There will be no additional charges for manufacturer discrepancies.

REVISIONS

	DESCRIPTION	DATE:
△		
△		
△		
△		

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DATE: 3/11/2016
DWG.#: 2594520
DRAWN BY:
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 4

CJ W ARCHITECTURE
130 Portola Road, suite A
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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

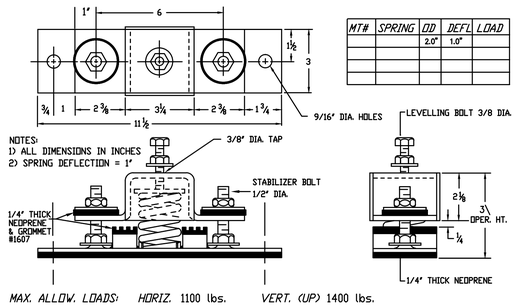
◦ SHEET TITLE ◦

Hood Controls
Wiring Diagrams

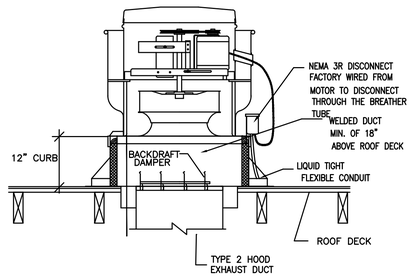
◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

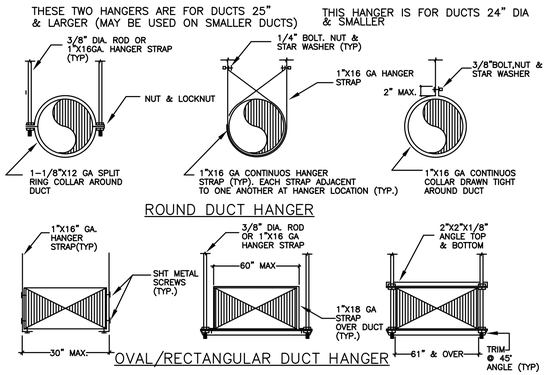
◦ JOB: 2015.2801
◦ DATE: 06/17/16
◦ SHEET: M3.4



VIBRATION ISOLATORS | 7

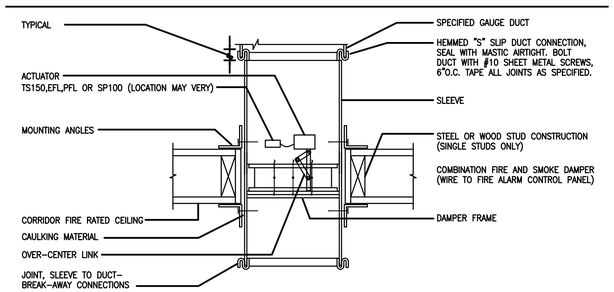


NON-GREASE EXHAUST FAN ON ROOF | 4



NOTES:
1 REFER TO SPECIFICATIONS FOR HANGER SPACINGS.
2 ATTACHMENTS TO OVERHEAD STRUCTURE SHALL BE MADE IN ACCORDANCE WITH STRUCTURAL ENGINEERS REQUIREMENTS AND WEIGHT LIMITATIONS. ALL ATTACHMENT METHODS TO STRUCTURE SHALL BE SUBMITTED TO STRUCTURAL ENGINEER FOR REVIEW

DUCT HANGERS | 1



FIRE/SMOKE DAMPER LISTINGS:
A. UL 555 1HR FIRE RESISTANCE AND UL555S LEAKAGE CLASS 1 AND CLASS 2 LEAKAGE RATINGS
B. CSFM CALIFORNIA STATE FIRE MARSHAL FIRE DAMPER LISTING (FSD36C #3225–245:111 AND SMOKE DAMPER LISTING (#3230–0245:112)

SPECIFICATIONS:

ANGLES ALL AROUND SLEEVE ON BOTH SIDES OF PARTITION. WELDED OR BOLTED TO SLEEVE WITH 1" FILLETS 5" O.C. MAX. OR 1/4" DIA. BOLTS @ 5" O.C. MAX. ANGLES ARE NOT ATTACHED TO WALL (EXCEPT AT SILL WHICH IS OPTIONAL) TO PROVIDE FOR EXPANSION. IN NO CASE SHALL ANGLE OVERLAP WALL FRAME LESS THAN 1". SEE DAMPER MANUFACTURER'S INSTRUCTIONS FOR SIZE AND GAUGE OF ANGLE.

COMBINATION FIRE SMOKE DAMPER SHALL BE FRAMED WITH A MINIMUM OF 16 GAGE GALVANIZED STEEL FORMED INTO A STRUCTURAL HAT CHANNEL SHAPE WITH TABBED CORNERS FOR REINFORCEMENT. THE BLADES SHALL BE SINGLE SKIN 16 GAGE MINIMUM GALVANIZED WITH THREE LONGITUDINAL GROOVES FOR REINFORCEMENT. BEARINGS SHALL BE STAINLESS STEEL SLEEVE TURNING IN AN EXTRUDED HOLE IN THE FRAME. JAMB SEALS SHALL BE STAINLESS STEEL FLEXIBLE METAL COMPRESSION TYPE.
EACH COMBINATION FIRE/SMOKE DAMPER SHALL BE 1–1/2 HOUR RATED UNDER UL STANDARD 555, AND SHALL FURTHER BE CLASSIFIED BY UNDERWRITERS LABORATORIES AS A LEAKAGE RATED DAMPER FOR USE IN SMOKE CONTROL SYSTEMS UNDER THE LATEST VERSION OF UL555S, AND BEAR A UL LABEL ATTESTING TO SAME. DAMPER MANUFACTURER SHALL HAVE TESTED, AND QUALIFIED WITH UL, A COMPLETE RANGE OF DAMPER SIZES COVERING ALL DAMPERS REQUIRED BY THIS SPECIFICATION. TESTING AND UL QUALIFYING A SINGLE DAMPER SIZE IS NOT ACCEPTABLE. THE LEAKAGE RATING UNDER UL555S SHALL BE LEAKAGE CLASS III. SEALS SHALL BE NON–DEGRADABLE METAL TO METAL RATED TO 850 °F. AS PART OF THE UL QUALIFICATION, DAMPERS SHALL HAVE DEMONSTRATED A CAPACITY TO OPERATE (TO OPEN AND CLOSE) UNDER HVAC SYSTEM OPERATING CONDITIONS, WITH PRESSURES OF AT LEAST 4" W.G. IN THE CLOSED POSITION, AND 2000 FPM AIR VELOCITY IN THE OPEN POSITION.
MANUFACTURER SHALL PROVIDE FACTORY ASSEMBLED SLEEVE OF MINIMUM LENGHT FACTORY SUPPLIED CAULK SLEEVE SHALL BE 20 GAGE FOR DAMPERS AS SHOWN. THROUGH 84" WIDE AND 18 GAGE ABOVE 84" WIDE.
DAMPER SHALL BE RESETTABLE AND SUPPLIED WITH 165 DEG. F FUSIBLE LINK.

DUCT SMOKE DETECTOR SHALL BE PHOTO ELECTRONIC TYPE RATED FOR 300 TO 4000 FPM VELOCITY, 32 DEG F TO 120 DEG F OPERATING TEMPERATURE RANGE, 10% TO 85% RELATIVE HUMIDITY OPERATING RANGE.

MANUFACTURER, MODEL NO. AND LISTING NO.

FIRE DAMPER SHALL BE RUSKIN FSD60 – CSFM LISTING #3225–245:102 SMOKE DAMPER CSFM LISTING #3230–245:110
DUCT SMOKE DETECTOR SHALL BE DSDF (HOCHIKI DH–980) – CSFM LISTING #3240–0410:155
PROVIDE REMOTE TEST/REST STATION TO BE MOUNTED IN CORRIDOR WITHIN 10 FEET OF FSD ABOVE CEILING.

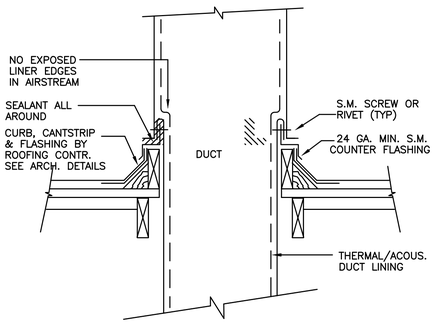
CONTROL SEQUENCE:

DAMPER SHALL OPERATE IN A NORMALLY OPEN POSITION AND SHALL USE A SMOKE DETECTOR ACTUATED MOTOR. CLOSURE OF DAMPER BLADES SHALL BE UPON SMOKE DETECTION OR LOSS OF FUSIBLE LINK. DAMPER SHALL FAIL CLOSE WHEN POWER FAILS TO THE DAMPER. FIRE SMOKE DAMPER SHALL BE TIED TO THE BUILDING FIRE ALARM SYSTEM.

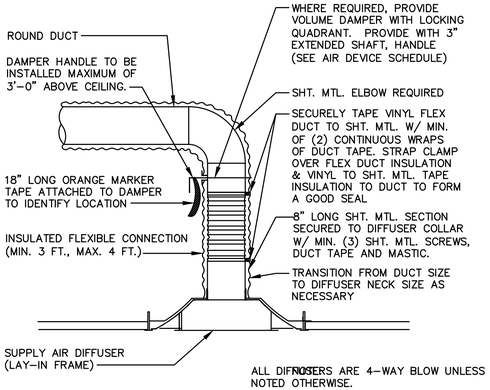
OPERATOR/ACTUATOR MOTOR LOCATED ON CORRIDOR SIDE OF DAMPER. UNIT MAY BE SUPPLIED WITHOUT MOTOR INSTALLED. SEE MANUFACTURER INSTRUCTIONS FOR FIELD MOUNTING OF MOTORS. REFER TO FIRE ALARM DRAWINGS FOR DAMPERS OPERATION SEQUENCE.

GENERAL NOTES:
1. DAMPER DETAIL FOR REFERENCE ONLY.
2. DAMPERS SHALL BE STATE FIRE MARSHAL APPROVED AND INSTALLED STRICTLY PER MANUFACTURER'S PRINTED INSTRUCTIONS.
3. MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITIES.
4. PLACEMENT OF DAMPER SHALL BE IN THE SAME PLANE AS THE BARRIER BEING PENETRATED.
5. NON–BREAKAWAY DUCT/SLEEVE CONNECTIONS: DUCT SLEEVE CONNECTIONS SHALL BE MINIMUM OF 16 GAGE FOR DAMPERS UP TO 36"WIDE x 24"HIGH AND 14 GAGE FOR DAMPERS EXCEEDING 36"WIDE x 24"HIGH.
6. WHEN OPTIONAL SEALING OF THESE JOINTS IS REQUIRED, THE FOLLOWING SEALANTS MAY BE APPLIED IN ACCORDANCE WITH THE SEALANT MANUFACUTURER'S INSTRUCTIONS. HARDCAST INC – IRON GRIP 601 PRECISION – PA2084T ECO–DUCT SEAL 44–52

COMBINATION FIRE/SMOKE DAMPER AT CORRIDOR | 8

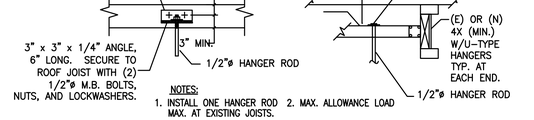


DUCT THRU ROOF DETAIL | 5



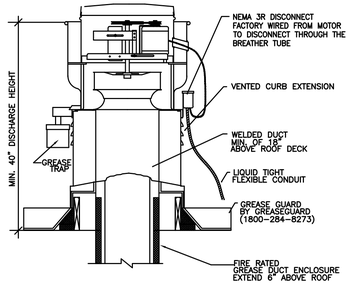
ALL DIFFUSERS ARE 4–WAY BLOW UNLESS NOTED OTHERWISE.

CEILING DIFFUSER MOUNTING | 6



NOTES:
1. INSTALL ONE HANGER ROD 2. MAX. ALLOWANCE LOAD MAX. AT EXISTING JOISTS.

HANGER ROD DETAILS | 2



TYPE 1 HOOD EXHAUST FAN | 3

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1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

MECHANICAL DETAILS

◦ REVISIONS ◦

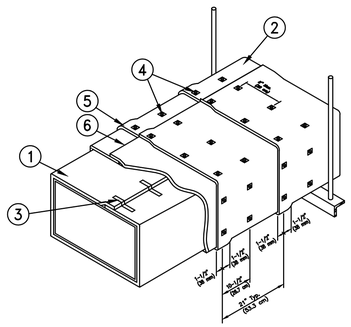
No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: M3.5

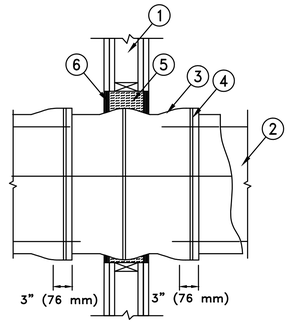
FIGURE TBD
3M FIRE BARRIER DUCT WRAP 615+
VENTILATION AIR DUCT SYSTEMS
1 OR 2 HOUR TELESCOPING TECHNIQUE W/SPEED CLIPS



1.	First Layer 3M Fire Barrier Duct Wrap 615+
2.	Second Layer 3M Fire Barrier Duct Wrap 615+
3.	Filament Tape For Temporary Hold On 1st Layer Duct Wrap
4.	1–1/2" Square (38mm) or 1–1/2" dia (38mm) galvanized speed clips
5.	3 in. (76 mm) Min. Longitudinal Overlap
6.	3 in. (76 mm) Min. Perimeter Overlap

System integrity is limited by quality of installation.

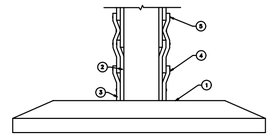
FIGURE 5
3M FIRE BARRIER DUCT WRAP 615+
COMMERCIAL KITCHEN GREASE DUCT SYSTEMS
1 OR 2 HOUR THROUGH PENETRATION SYSTEMS
FIRE–RATED GYPSUM WALLBOARD



1.	Gypsum Wallboard Assembly
2.	Duct
3.	2 Layers 3M Fire Barrier Duct Wrap 615+
4.	Banding or Pinning
5.	Packing Material
6.	3M Fire Barrier 1000 N/S or 2000+ Silicone Sealant

System integrity is limited by quality of installation.

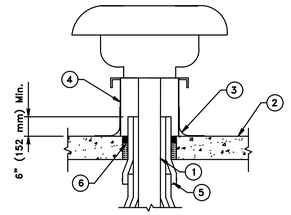
FIGURE 9
3M FIRE BARRIER DUCT WRAP 615+
COMMERCIAL KITCHEN GREASE DUCT SYSTEMS
1 OR 2 HOUR SHAFT ALTERNATIVE ZERO CLEARANCE TO COMBUSTIBLES
SUGGESTED EXHAUST HOOD



1.	Hood
2.	First Layer 3M Fire Barrier Duct Wrap 615+
3.	Second Layer 3M Fire Barrier Duct Wrap 615+
4.	6" (152 mm) Minimum Overlap
5.	Banding Typical

System integrity is limited by quality of installation.

FIGURE 10
3M FIRE BARRIER DUCT WRAP 615+
COMMERCIAL KITCHEN GREASE DUCT SYSTEMS
1 OR 2 HOUR SHAFT ALTERNATIVE ZERO CLEARANCE TO COMBUSTIBLES
SUGGESTED ROOF VENT



1.	Duct
2.	Roof Assembly
3.	Roof Flashing
4.	Vent Flashing
5.	Two Layers 3M Fire Barrier Duct Wrap 615+
6.	Firestopping System for Rated Roof Assemblies Only

System integrity is limited by quality of installation.

FIGURE 1A
TELESCOPING OVERLAP WRAP OPTION
CROSS SECTIONAL VIEW
2 LAYERS

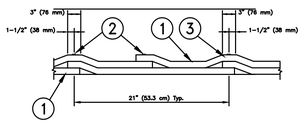


FIGURE 1B
CHECKERBOARD OVERLAP WRAP OPTION
CROSS SECTIONAL VIEW

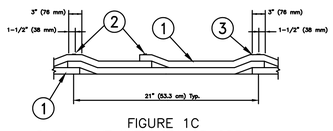
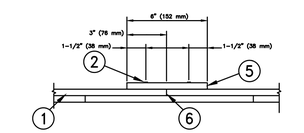


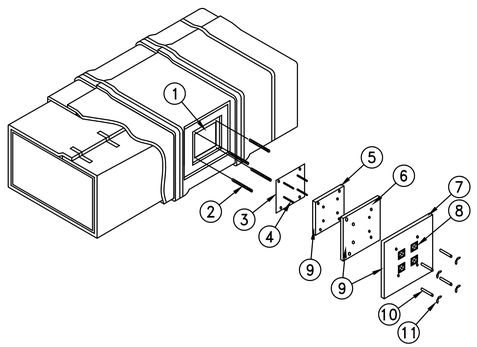
FIGURE 1C
BUTT JOINT WITH COLLAR OPTION
CROSS SECTIONAL VIEW



1.	One Layer 3M Fire Barrier Duct Wrap 615+
2.	Stainless Steel Banding
3.	3 in. (76 mm) Min. Longitudinal Overlap
4.	3 in. (76 mm) Min. Perimeter Overlap
5.	6 in. (152 mm) Wide Collar Made From 3M Fire Barrier Duct Wrap 615+
6.	Firmly Butted Joint

System integrity is limited by quality of installation.

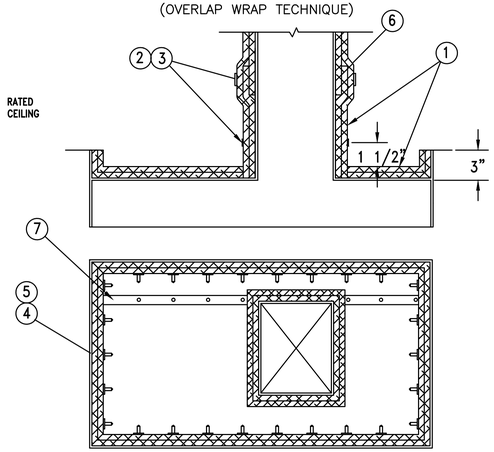
CONSULT CURRENT INDEPENDENT TESTING LABORATORIES (UL, INTERTEK) FOR SYSTEMS OR DESIGN DETAILS



1.	Access Hole
2.	1/4 in. (6 mm) Dia. All Threaded Rods
3.	Access Cover – 16 Gauge
4.	Insulation Pins – Welded
5.	First Layer 3M Fire Barrier Duct Wrap 615+ Cut Same Size As Cover
6.	Second Layer 3M Fire Barrier Duct Wrap 615+ with 1 in. (25 mm) Overlap On All Sides
7.	Third Layer 3M Fire Barrier Duct Wrap 615+ with 1 in. (25 mm) Overlap On All Sides
8.	Speed Clips
9.	Aluminum Tape Covering All Exposed Edges
10.	Spool Pieces For Threaded Rods
11.	1/4 in. (6 mm) Diameter Wing Nuts

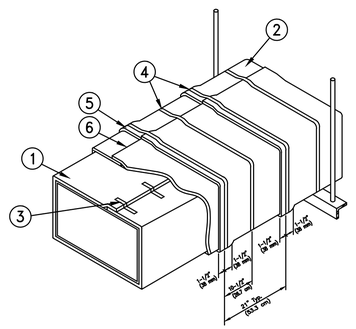
System integrity is limited by quality of installation.

3M FIRE BARRIER 615+ DUCT WRAP
SUGGESTED INSTALLATION FOR GREASE HOOD DETAIL
1 OR 2 HOUR SYSTEM
(OVERLAP WRAP TECHNIQUE)



1. TWO LAYERS OF DUCT WRAP 615+
2. FILAMENT TAPE
3. BANDING
4. 10 GAUGE 6" LONG, COPPER COATED INSULATION PINS
5. SPEED CLIPS
6. 3" MIN. PERIMETER OVERLAP
7. 3" MIN. SEAM OVERLAP

FIGURE 1
3M FIRE BARRIER DUCT WRAP 615+
VENTILATION AIR DUCT SYSTEMS
1 OR 2 HOUR TELESCOPING TECHNIQUE W/BANDING



1.	First Layer 3M Fire Barrier Duct Wrap 615+
2.	Second Layer 3M Fire Barrier Duct Wrap 615+
3.	Filament Tape For Temporary Hold On 1st Layer Duct Wrap
4.	Steel Banding 1/2 in. (13 mm) Wide Min. Typical 10–1/2" O.C.
5.	3 in. (76 mm) Min. Longitudinal Overlap
6.	3 in. (76 mm) Min. Perimeter Overlap

System integrity is limited by quality of installation.

DUCTS > 24" WIDE REQUIRE PINNING ON THE BOTTOM SIDE
PINNING MAY BE OMITTED BY BANDING MAX. 5 1/4" O.C. (133mm). ENSURE THAT MATERIAL IS HELD TIGHTLY TO THE DUCT
CONSULT CURRENT INDEPENDENT TESTING LABORATORIES (UL, INTERTEK) FOR SYSTEMS OR DESIGN DETAILS

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San Carlos, CA 94070
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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

3M 615+ FIRE WRAP DETAILS

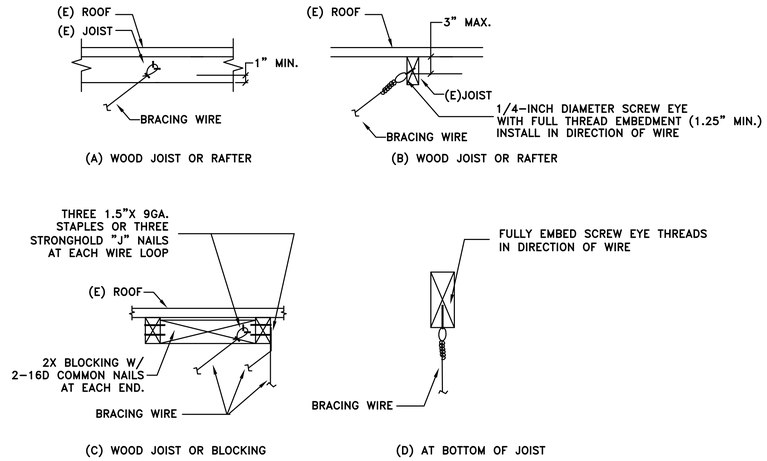
◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

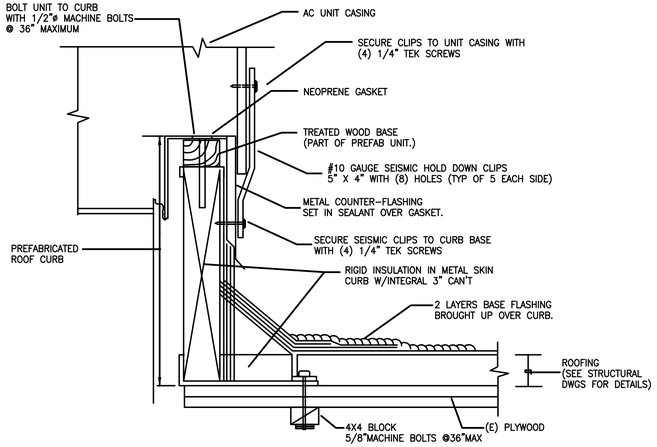
◦ SHEET: M3.6



BRACING WIRE - ATTACHMENT TO STRUCTURE

3 / M3.7

NOTE: ADD NEOPRENE WASHERS AND WAFFLE-PATTERN NEOPRENE PADS UNDER ALL BOLTS AND SCREW HEADS.

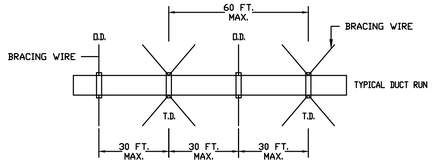


EQUIPMENT ROOF CURB FOR AC UNITS

4 / M3.7

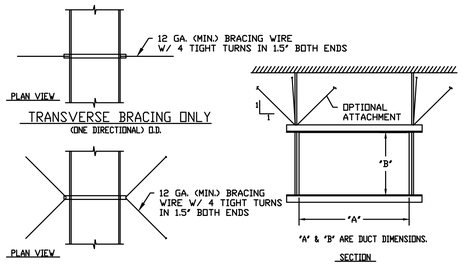
GENERAL NOTES - SEISMIC BRACING OF DUCTS

1. ALL RECTANGULAR AND OVAL DUCTS 6 SQUARE FEET OR LARGER SHALL BE SEISMICALLY BRACED, EXCEPT AS NOTED BELOW.
2. ALL ROUND DUCTS WITH A DIAMETER OF 28 INCHES OR LARGER SHALL BE SEISMICALLY BRACED, EXPECT AS NOTED BELOW.
3. DUCTS INSTALLED WITHIN 12 INCHES OF SUPPORT STRUCTURE, MEASURED TO THE TOP OF THE DUCT, NEED NOT BE BRACED LATERALLY, WHERE THE HANGERS ARE DETAILED TO AVOID BENDING OF THE HANGERS AND THEIR CONNECTIONS.
4. AS A MINIMUM THE BRACES SHALL BE LOCATED AT EACH END OF THE DUCT RUN, WHERE DUCT CHANGES DIRECTION, AND AT INTERSECTIONS OF DUCTS.
5. THE TRANSVERSE BRACING OF A DUCT RUN SHALL NOT BE SPACED FURTHER APART THAN 30 FEET. THE LONGITUDINAL BRACING OF A DUCT RUN SHALL NOT BE SPACED FURTHER APART 60 FEET.
6. WHERE PRACTICAL, LOCATE LATERAL BRACES WITHIN 24 INCHES OF ELBOWS OR INTERSECTIONS OF THE DUCTS. THIS ENABLES ONE BRACE TO ACT AS TRANSVERSE BRACE FOR THE DUCT RUN IN ONE DIRECTION AND LONGITUDINAL BRACE FOR THE DUCT RUN IN THE OTHER DIRECTION. THE BRACING AT THE INTERSECTION OF DUCTS SHOULD BE SIZED FOR LARGER DUCT.
7. AT INTERSECTION OF TWO DUCTS, ONE DUCT RUN MAY BRACE A RUN OF EQUAL OR SMALLER SIZED DUCT.
8. THE BRACING SHALL BE ANCHORED TO SOUND STRUCTURAL ELEMENTS OF THE BUILDING. HOWEVER, BRACING FOR ONE DUCT RUN SHALL NOT BE ANCHORED TO DISSIMILAR STRUCTURAL ELEMENTS THAT WILL BE BEHAVE DIFFERENTLY IN A SEISMIC EVENT.

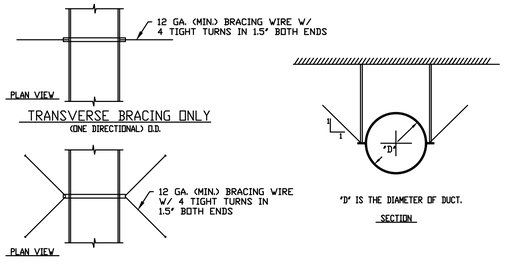


O.D. = ONE (1) DIRECTIONAL BRACING
T.D. = TWO (2) DIRECTIONAL BRACING

TYPICAL LAYOUT



TYPES OF BRACING WIRE FOR RECTANGULAR DUCTS - SCHEMATIC

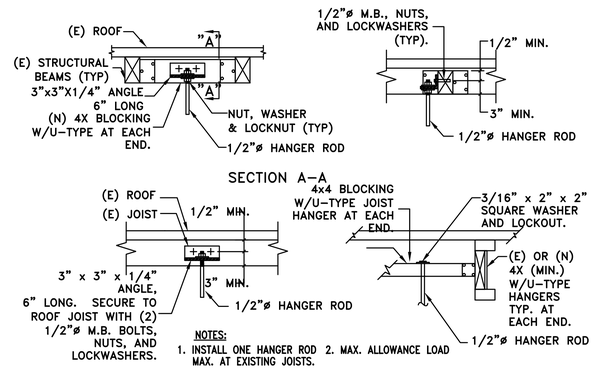


TYPES OF BRACIGN WIRE FOR ROUND DUCTS - SCHEMATIC

DUCTWORK SIESMIC RESTRAINTS

REFER TO STRUCTURAL DETAILS FOR INFORMATION ON ATTACHMENTS TO STRUCTURE

1 / M3.7



HANGER RODS - ATTACHMENT TO STRUCTURE

2 / M3.7

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

MECHANICAL DETAILS

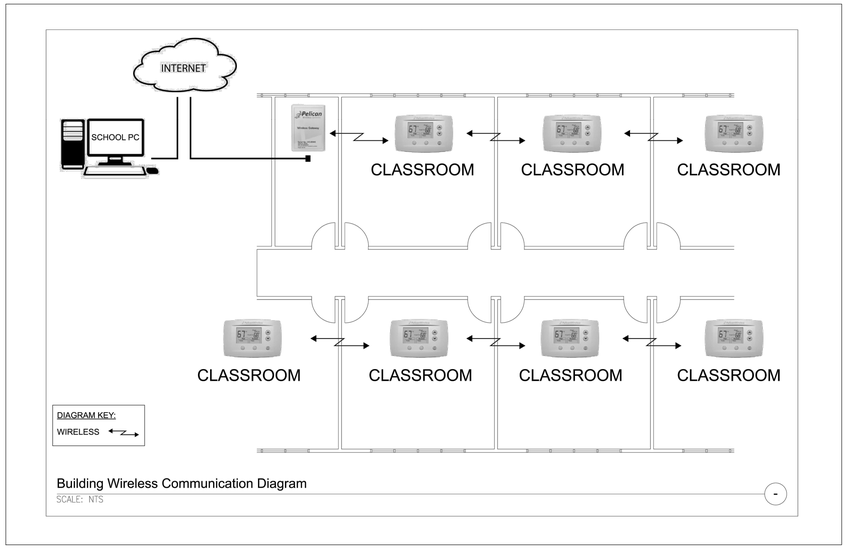
◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

◦ JOB: 2015.2801

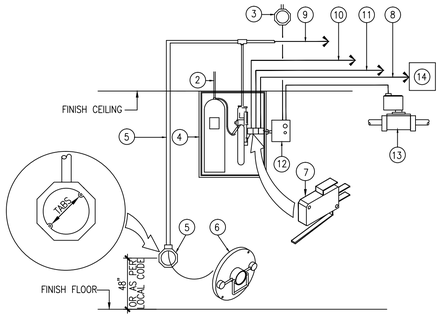
◦ DATE: 06/17/16

◦ SHEET: M3.7



Building Wireless Communication Diagram

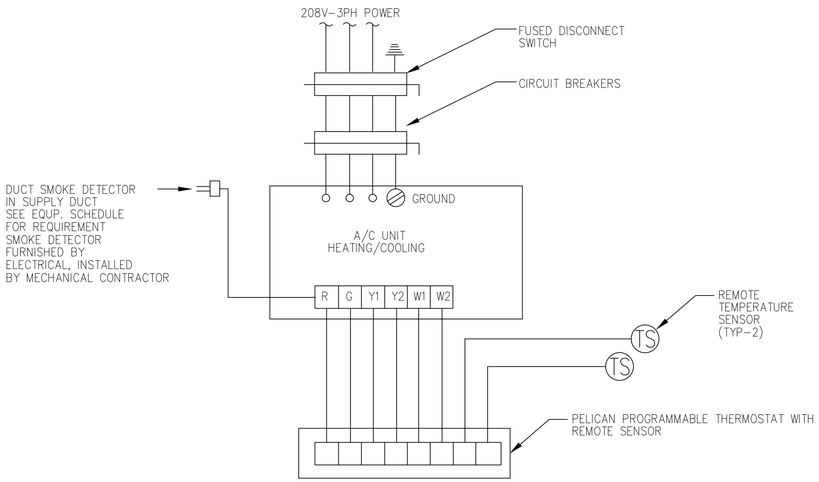
SCALE: NTS



ELECTRICAL FIRE SUPPRESSION SYSTEM NOTES

1. DIAGRAM IS TO SHOW THE SCHEMATIC INTENT OF THE HOOD FIRE SUPPRESSION SYSTEM. IT DOES NOT NECESSARILY INDICATE ALL WIRING REQUIRED. CONTRACTOR SHALL PROVIDE ALL ELECTRICAL DEVICES, WIRING, ETC FOR A COMPLETE INSTALLATION. REFER TO MECHANICAL DRAWINGS FOR SUPPLY FAN CONTROL DETAIL. REFER TO ANSUL SHOP DRAWINGS FOR FURTHER DETAILS.
2. CHEMICAL PIPING TO HOOD BY OTHERS.
3. 120 VOLT DEDICATED CIRCUIT FROM ELECTRICAL PANEL. PROVIDE AND INSTALL INTERCONNECTION TO MANUAL RESET RELAY THROUGH MICROSWITCH.
4. ANSUL CABINET WITH TANK(S) BY OTHERS.
5. PROVIDE 4" OCTAGONAL J-BOX WITH TABS AT 45 AND 1/2"C. WITH WIRING PER ANSUL MANUFACTURER'S RECOMMENDATION TO RELEASING VALVE.
6. MANUAL PULL STATION(FLUSH MOUNTED). PROVIDED WITH ANSUL SYSTEM, WIRED BY ELECTRICAL CONTRACTOR.
7. SNAP ACTION MICROSWITCHES FOR CONTROL OF GAS SOLENOID VALVE, SUPPLY FAN, SHUNT-TRIP BREAKER, AND CONNECTION TO BASE BUILDING FIRE ALARM MONITORING SYSTEM.
8. PROVIDE ELECTRICAL WIRING INTERCONNECTION TO SUPPLY FAN STARTER. SUPPLY FAN SHALL SHUT DOWN THROUGH MICROSWITCH DURING AN ALARM VIA CAPTIVE AIRE CONTROL PANEL. REFER TO HOOD DRAWINGS.
9. CONDUIT AND SIGNAL CABLE TO FUSIBLE LINKS AT EXHAUST HOOD.
10. CONNECTION TO "SHUNT-TRIP" BREAKER(S) FOR ALL ELECTRICAL EQUIPMENT AND RECEPTACLES BELOW HOOD THROUGH MICROSWITCH.
11. CONNECTION TO BASE BUILDING FIRE ALARM MONITORING SYSTEM THROUGH MICROSWITCH.
12. MANUAL RESET RELAY. PROVIDED BY KITCHEN CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
13. SOLENOID GAS SHUT-OFF VALVE PROVIDED BY OTHERS, WIRED BY ELECTRICAL CONTRACTOR(OMIT FOR ELECTRIC COOKING).
14. CAPTIVE AIRE CONTROL PANEL.

ELECTRICAL DETAILS FOR ANSUL FIRE SUPPRESSION SYSTEM

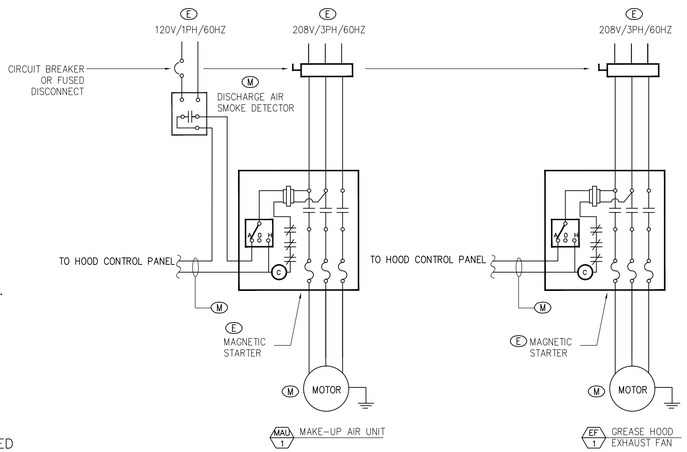


AC UNIT CONTROL DIAGRAM 1

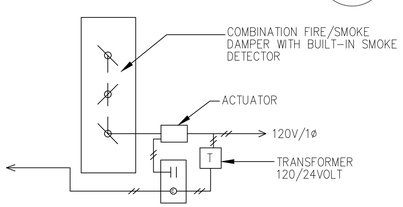
N.T.S.

CONTROL NOTES

1. ALL WIRING TO CONFORM TO LOCAL CODES.
2. ——— POWER WIRING BY ELECTRICAL CONTRACTOR.
3. ——— LOW VOLTAGE BY MECHANICAL CONTRACTOR. THE FINAL CONNECTION AND SUPERVISION OF ALL CONTROL WIRING AND INTERLOCK WIRING SHALL BE RESPONSIBILITY OF MECHANICAL CONTRACTOR.
4. (M) FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.
5. (E) FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
6. (M/E) FURNISHED BY MECHANICAL CONTRACTOR INSTALLED BY ELECTRICAL CONTRACTOR.
7. COORDINATE WITH ELECTRICALCONTRACTOR PRIOR TO FINALIZING THE BID.
8. THIS DRAWING IS FOR COORDINATION ONLY. THE MECH. CONTRACTOR IS FULLY RESPONSIBLE FOR THE COMPLETE TEMP. CONTROL SYSTEM AND SHOULD INCLUDE IN HIS BID ALL NECEESSARY ITEMS WHETHER SHOWN HERE OR NOT. REFER TO MANUFACTURER'S LITERATURE REGARDING ACTUAL WIRING REQM'TS MECHANICAL CONTRACTOR TO VERIFY TEMP. CONTROLS WITH ACTUAL MANUFACTURER'S CONTROL DIAG. PROVIDE LOCKING COVER FOR THERMOSTATS FOR ALL SYSTEMS SERVING ALL AREAS. MECHANICAL CONTRACTOR TO PROVIDE DETAILED WIRING DIAGRAM FOR REVIEW AND COORDINATION WITH ELECTRICAL CONTRACTOR, 6 COPIES REQUIRED. FINAL THERMOSTAT LOCATIONS TO BE COORDINATED WITH FURNITURE LAYOUT, SHOWN ON SHOP DRAWINGS AND SIGNED OFF BY THE OWNER DUCT SMOKE DETECTOR TO BE FURNISHED BY , INSTALLED BY (M),AND WIRED BY (E).



NOTE: INTERLOCK AC UNIT SUPPLY FAN TO SHUT DOWN UNIT UPON ACTIVATION



COMBINATION FIRE/SMOKE DAMPER CONTROL 5

FAN CONTROL

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

MECHANICAL DETAILS AND CONTROLS

◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: M3.8

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	(Page 1 of 4)
Project Name: Lifemoves Maple St Shelter-1580 Maple St, Redwood City CA	Date Prepared: 06.17.2016

A. MECHANICAL COMPLIANCE FORMS & WORKSHEETS (check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, refer to the 2013 Nonresidential Manual
Note: The Enforcement Agency may require all forms to be incorporated onto the building plans.

YES	NO	Form/Worksheet #	Title
☒	☐	NRCC-MCH-01-E (Part 1 of 3)	Certificate of Compliance, Declaration. Required on plans for all submittals.
☒	☐	NRCC-MCH-01-E (Part 2 of 3)	Certificate of Compliance, Required Acceptance Tests (MCH-02A to 11A). Required on plans for all submittals.
☒	☐	NRCC-MCH-01-E (Part 3 of 3)	Certificate of Compliance, Required Acceptance Tests (MCH-12A to 18A). Required on plans where applicable.
☒	☐	NRCC-MCH-02-E (Part 1 of 2)	Mechanical Dry Equipment Summary is required for all submittals with Central Air Systems. It is optional on plans.
☐	☒	NRCC-MCH-02-E (Part 2 of 2)	Mechanical Wet Equipment Summary is required for all submittals with chilled water, hot water or condenser water systems. It is optional on plans.
☒	☐	NRCC-MCH-03-E	Mechanical Ventilation and Reheat is required for all submittals with multiple zone heating and cooling systems. It is optional on plans.
☐	☒	NRCC-MCH-07-E (Part 1 of 2)	Power Consumption of Fans. Required on plans where applicable
☐	☒	NRCC-MCH-07-E (Part 2 of 2)	Power Consumption of Fans, Declaration. Required on plans where applicable

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	(Page 2 of 4)
Project Name: Lifemoves Maple St Shelter- 1580 Maple St. , Redwood City CA	Date Prepared: 06.17.2016

B. MECHANICAL HVAC ACCEPTANCE FORMS (check box for required forms)

Test Performed By:

Designer:
This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for HVAC systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. All equipment of the same type that requires a test, list the equipment description and the number of systems.

Installing Contractor:
The contractor who installed the equipment is responsible to either conduct the acceptance test them self or have a qualified entity run the test for them. If more than one person has responsibility for the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsible.

Enforcement Agency:
Plancheck – The NRCC-MCH-01-E form is not considered a completed form and is not to be accepted by the building department unless the correct boxes are checked.
Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operations.

Test Description	MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A
Equipment Requiring Testing or Verification	# of Units	Outdoor Air	Single Zone Unitary	Air Distribution Ducts	Economizer Controls	Demand Control Ventilation (DCV)	Supply Fan VAV	Valve Leakage Test	Supply Water Temp. Reset	Hydronic System Variable Flow Control	Automatic Demand Shed Control
AC-1 to AC-10	10	X	X	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
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STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	(Page 3 of 4)
Project Name: Lifemoves Maple St Shelter – 1580 Maple St, Redwood City CA	Date Prepared: 06.17.2016

C. MECHANICAL HVAC ACCEPTANCE FORMS (check box for required forms)

Test Performed By:

Designer:
This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for HVAC systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. All equipment of the same type that requires a test, list the equipment description and the number of systems.

Installing Contractor:
The contractor who installed the equipment is responsible to either conduct the acceptance test them self or have a qualified entity run the test for them. If more than one person has responsibility for the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsible.

Enforcement Agency:
Plancheck – The NRCC-MCH-01-E form is not considered a completed form and is not to be accepted by the building department unless the correct boxes are checked.
Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operations.

Test Description	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A
Equipment Requiring Testing or Verification	# of units	Fault Detection & Diagnostics for DX Units	Automatic Fault Detection & Diagnostics for Air & Zone	Distributed Energy Storage DX AC Systems	Thermal Energy Storage (TES) Systems	Supply Air Temperature Reset Controls	Condenser Water Reset Controls	ECMS
AC-1 to AC-10	10	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐
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		☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐

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

These plans are copyrighted and are subject to copyright protection as an "architectural work" under Sec. 102 of the Copyright Act, 17 U.S.O. as amended December 1990 and known as Architectural Works Copyright Protection Act of 1990. The protection includes but is not limited to the overall form as well as the arrangement and composition of spaces and elements of the design. Under such protection, unauthorized use of these plans, work or home represented, can legally result in the cessation of construction or building being seized and /or monetary compensation to CJW Architecture.

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	(Page 4 of 4)
Project Name: Lifemoves Maple St Shelter-1580 Maple St, Redwood Coty CA	Date Prepared: 06.17.2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Vy Truong	Documentation Author Signature:
Company: Tantech Engineers	Signature Date: 06.17.2016
Address: 1431 Cedar Street	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: Vy Truong	Responsible Designer Signature:
Company : Tantech Engineers	Date Signed: 06.17.2016
Address: 1431 Cedar Street	License: M32860
City/State/Zip: San Carlos CA 94070	Phone: 415-269-4183

STATE OF CALIFORNIA
HVAC SYSTEM REQUIREMENTS
CEC-NRCC-MCH-02-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-02-E
HVAC Dry System Requirements	(Page 1 of 3)
Project Name: Lifemoves Maple St Shelter-1580 Maple St., Redwood City CA	Date Prepared: 06.17.2016

A. Equipment Tags and System Description[1] — AC-1 to AC-10

MANDATORY MEASURES	*T-24 Sections*	*Reference to the Requirements in the Contract Documents[2]*		
Heating Equipment Efficiency[3]	110.1 or 110.2(a)	M0.1		
Cooling Equipment Efficiency[3]	110.1 or 110.2(a)	N/A		
HVAC or Heat Pump Thermostats	110.2(b), 110.2(c)	M0.1		
Furnace Standby Loss Control	110.2(d)	N/A		
Low leakage AHUs	110.2(f)	N/A		
Ventilation[4]	120.1(b)	M0.1		
Demand Control Ventilation[5]	120.1(c)4	N/A		
Occupant Sensor Ventilation Control[6]	120.1(c)5, 120.2(e)3	N/A		
Shutoff and Reset Controls[7]	120.2(e)	M0.1		
Outdoor Air and Exhaust Damper Control	120.2(f)	M2.1		
Isolation Zones	120.2(g)	M2.1		
Automatic Demand Shed Controls	120.2(h)	N/A		
Economizer FDD	120.2(i)	N/A		
Duct Insulation	120.4	M0.2		
PRESCRIPTIVE MEASURES				
Equipment is sized in conformance with 140.4 (a & b)	140.4(a & b)	Y		
Supply Fan Pressure Control	140.4(c)	N		
Simultaneous Heat/Cool[8]	140.4(d)	N		
Economizer	140.4(e)	N		
Heat and Cool Air Supply Reset	140.4(f)	N		
Electric Resistance Heating[9]	140.4(g)	N		
Duct Leakage Sealing and Testing.[10]	140.4(l)	N		

Notes:
1. *Provide equipment tags (e.g. AHU 1 to 10) and system description (e.g. Single Duct VAV reheat) as appropriate. Multiple units with common requirements can be grouped together.*
2. *Provide references to plans (i.e. Drawing Sheet Numbers) and/or specifications (including Section name/number and relevant paragraphs) where each requirement is specified. Enter "N/A" if the requirement is not applicable to this system.*
3. *The referenced plans and specifications must include all of the following information: equipment tag, equipment nominal capacity, Title 24 minimum efficiency requirements, and actual rated equipment efficiencies. Where multiple efficiency requirements are applicable (e.g. full- and part-load) include all. Where appliance standards apply (110.1), identify where equipment is required to be listed per Title 20 1601 et seq.*
4. *Identify where the ventilation requirements are documented for each central HVAC system. Include references to both central unit schedules and sequences of operation. If one or more space is naturally ventilated identify where this is documented in the plans and specifications. Multiple zone central air systems must also provide a MCH-03-E form.*
5. *If one or more space has demand controlled ventilation identify where it is specified including the sensor specifications and the sequence of operation.*
6. *If one or more space has occupant sensor ventilation control identify where it is specified including the sensor specifications and the sequence of operation*
7. *If the system is DDC identify the sequences for the system start/stop, optimal start, setback (if required) and setup (if required). For all systems identify the specification for the thermostats and time clocks (if applicable).*
8. *Identify where the heating, cooling and deadband airflows are scheduled for this system. Include a reference to the specification of the zone controls. Provide a MCH-03-E form.*
9. *Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.*
10. *If duct leakage sealing and testing is required, a MCH-04-A form must be submitted.*

STATE OF CALIFORNIA
HVAC WET SYSTEM REQUIREMENTS
CEC-NRCC-MCH-02-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-02-E
HVAC Wet System Requirements	(Page 2 of 3)
Project Name: Lifemoves Maple St Shelter-1580 Maple St., Redwood City CA	Date Prepared: 06.17.2016

B. Equipment Tags and System Description[1]

MANDATORY MEASURES	*T-24 Sections*	*Reference to the Requirements in the Contract Documents[2]*		
Heating Hot Water Equipment Efficiency[3]	110.1			
Cooling Chilled and Condenser Water Equipment Efficiency[3]	110.1, 140.4(i)			
Open and Closed Circuit Cooling Towers conductivity or flow-based controls	110.2(e) 1			
Open and Closed Circuit Cooling Towers Maximum Achievable Cycles of Concentration (LSI)[4]	110.2(e) 2			
Open and Closed Circuit Cooling Towers Flow Meter with analog output	110.2(e) 3			
Open and Closed Circuit Cooling Towers Overflow Alarm	110.2(e) 4			
Open and Closed Circuit Cooling Towers Efficient Drift Eliminators	110.2(e) 5			
Pipe Insulation	120.3			
PRESCRIPTIVE MEASURES				
Cooling Tower Fan Controls	140.4(h)2, 140.4(h)5			
Cooling Tower Flow Controls	140.4(h)3			
Centrifugal Fan Cooling Towers[4]	140.4(h)4			
Air-Cooled Chiller Limitation[5]	140.4(j)			
Variable Flow System Design	140.4(k)			
Chiller and Boiler Isolation	140.4(k)			
CHW and HHW Reset Controls	140.4(k)			
WLHP Isolation Valves	140.4(k)			
VSD on CHW, CW & WLHP Pumps >5HP	140.4(k)			
DP Sensor Location	140.4(k)			

Notes:
1. *Provide equipment tags (e.g. CH 1 to 3) or system description (e.g. CHW loop) as appropriate. Multiple units with common requirements can be grouped together.*
2. *Provide references to plans (i.e. Drawing Sheet Numbers) and/or specifications (including Section name/number and relevant paragraphs) where each requirement is specified. Enter "N/A" if the requirement is not applicable to this system.*
3. *The referenced plans and specifications must include all of the following information: equipment tag, equipment nominal capacity, Title 24 minimum efficiency requirements, and actual rated equipment efficiencies. Where multiple efficiency requirements are applicable (e.g. full- and part-load) include all. For chillers operating at non-standard efficiencies provide the Kadj values. For chillers also note whether the efficiencies are Path A or Path B.*
4. *Identify if cooling towers have propeller fans. If towers use centrifugal fans document which exception is used.*
5. *If air-cooled chillers are used, document which exceptions have been used to comply with 140.4(j) and the total installed design capacity of the air-cooled chillers in the chilled water plant.*
6. *Identify the existence of a completed MCH-06-E \when open or closed circuit cooling towers are specified to be installed, otherwise enter "N/A".*

STATE OF CALIFORNIA
HVAC SYSTEM REQUIREMENTS
CEC-NRCC-MCH-02-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-02-E
HVAC Wet System Requirements	(Page 3 of 3)
Project Name: Lifemoves Maple St Shelter-1580 Maple St., Redwood City CA	Date Prepared: 06.17.2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Vy Truong	Documentation Author Signature:
Company: Tantech Engineers	Signature Date: 06.17.2016
Address: 1431 Cedar Street	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:
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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: Vy Truong	Responsible Designer Signature:
Company : Tantech Engineers	Date Signed: 06.17.2016
Address: 1431 Cedar Street	License: M32860
City/State/Zip: San Carlos CA 94070	Phone: 415-269-4283

◦ PROJECT ◦

LifeMoves Maple Street
Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

MECH Title
24 Forms

◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD☐ SUBMITTAL 1
2	8.15.16	PLAN CHEC☐ ☐1 ADDENDUM ☐3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: M4.1

STATE OF CALIFORNIA
MECHANICAL VENTILATION AND REHEAT
CEC-NRCC-MCH-03-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-03-E
Mechanical Ventilation & Reheat	(Page 1 of 2)
Project Name: Lifemoves Maple St Shelter-1580 Maple St., Redwood City CA	Date Prepared: 06.17.2016

ACTUAL DESIGN INFO (FROM EQUIPMENT SCHEDULES, ETC)						AREA BASIS			OCCUPANCY BASIS			MINIMUM		VAV Reheated Primary Air CFM				VAV Deadband Primary Air CFM		
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
VAV SYSTEM TAG OR BOX TAG	ZONE PRIMARY AIRFLOW (CFM)	DESIGN HEATING AIRFLOW (CFM)	DESIGN PRIMARY AIRFLOW (CFM)	DDC ZONE TYPE (DDC/ NON-DDC)	ZONE TYPE (CONDI-TIONED OR UNCONDI-TIONED)	AREA (SQ FT)	MIN CFM PER AREA	MIN CFM PER VAV BOX	NUM. OF PEOPLE	CFM PER PERSON	PMAC	MIN CFM PER OCCU.	MIN CFM PER VAV BOX (CFM)	COMPLIES	DDC/NON-DDC, ZONE TYPE, PRIMARY AIRFLOW	CFM PER AREA OR OCCUPANT	COMPLIES	DDC/NON-DDC, ZONE TYPE (CFM)	Enter 'Y' if 'N' in N, O, P, or Q	COMPLIES
AC-1 to AC-10	22,800	22,800	22,800	N	N/A	18,000	0.15	2700	300	15	4500	4500	Y							
AC-10																				

Yellow shaded cells require user input. Remaining cells are protected and automatic

B. The largest amount of primary air supplied by the terminal unit when it's operating in the cooling mode.
C. The smallest amount of primary air supplied by the terminal unit in the deadband mode.
D. The largest amount of primary air supplied by the terminal unit when it's operating in the heating mode.
E. A terminal unit can be controlled with DDC controls, or non-DDC controls. Each control category has different reheat limitations in code.
F. Transfer Air must be provided where Required Ventilation Airflow (Column M) is greater than the Design Primary Deadband Airflow (Column C).
H. Minimum ventilation rate per Section §120.1. Table 120.1-A.
J. Based on number of fixed seats where applicable or the greater of the expected number of occupants and 50% of the CBC occupant load for egress purposes for spaces without fixed seating.
M. Required Ventilation Airflow (Req'd Ventilation Airflow) is the larger of the ventilation rates calculated on an AREA BASIS or OCCUPANCY BASIS (Column I or L)
N. This column identifies whether or not the Design Primary Deadband Airflow complies or not. It compares the value in column M to the value in column C and column F.
O. Design Primary Cooling Airflow * 0.50 for DDC, Design Primary Cooling Airflow * 0.30 for Non-DDC. If the Design Primary Cooling Airflow is less than 300 cfm, then this is not applicable.
P. Maximum of Column M and Column O. If the Design Primary Cooling Airflow is 300 cfm or less, then this is not applicable.
Q. This column identifies whether or not the Design Primary Reheat Airflow at the zone level, complies or not. It compares the value in column P to the value in column D.
R. Design Primary Cooling Airflow * 0.20 for DDC. Not applicable for Non-DDC zones or zones where Design Primary Cooling Airflow is 300 cfm or less.
S. Maximum of Column M and Column R. Not applicable if the Design Primary Cooling Airflow is 300 cfm or less.
T. This column identifies whether or not the Design Primary Deadband Airflow at the zone level, complies or not. It compares the value in column S to the value in column C.

STATE OF CALIFORNIA
MECHANICAL VENTILATION AND REHEAT
CEC-NRCC-MCH-03-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-03-E
Mechanical Ventilation & Reheat	(Page 2 of 2)
Project Name: Lifemoves Maple St Shelter-1580 Maple St., Redwood City CA	Date Prepared: 06.17.2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Vy Truong	Documentation Author Signature:
Company: Tantech Engineers	Signature Date: 06.17.2016
Address: 1431 Cedar Street	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Carlos CA 94070	Phone: 415-269-4283

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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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: Vy Truong	Responsible Designer Signature:
Company: Tantech Engineers	Date Signed: 06.17.2016
Address: 1431 Cedar Street	License: M32860
City/State/Zip: San Carlos CA 94070	Phone: 415-269-4283

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
CEC-NRCC-MCH-04-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-04-E
Required Acceptance Tests	(Page 1 of 3)
Project Name: Lifemoves Maple St Shelter-1580 Maple St., Redwood City CA	Date Prepared: 06.17.2016

A. MECHANICAL COMPLIANCE FORMS & WORKSHEETS
(indicate if worksheet is included)
For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, refer to the 2013 Nonresidential Manual
Note: The Enforcement Agency may require all forms to be incorporated onto the building plans. Forms NRCC-MCH-04-E and NRCC-MECH-05-E are alternative forms to NRCC-MCH-01-E, NRCC-MCH-02-E and NRCC-MCH-03-E for projects using only single zone packaged HVAC systems.

YES	NO	Form	Title
YES		NRCC-MCH-04-E (1 of 2)	Certificate of Compliance. Required on plans when used.
YES		NRCC-MCH-04-E (2 of 2)	Mechanical Acceptance Tests. Required on plans when used.
YES		NRCC-MCH-05-E (1 of 2)	HVAC Prescriptive Requirements. It is required on plans when used.
	NO	NRCC-MCH-05-E (2 of 2)	Mechanical SWH Equipment Summary is required for all submittals with service water heating, pools or spas. It is required on plans where applicable.

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
CEC-NRCC-MCH-04-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-04-E
Required Acceptance Tests	(Page 2 of 3)
Project Name: Lifemoves Maple St Shelter-1580 Maple St., Redwood City CA	Date Prepared: 06.17.2016

Designer:
This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is required to check the applicable boxes by all acceptance tests that apply and list all equipment that requires an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems. The NA number designates the Section in the Appendix of the Nonresidential Reference Appendices Manual that describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

Enforcement Agency:
Systems Acceptance. Before occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance.

Systems Acceptance. Before occupancy permit is granted. All newly installed HVAC equipment must be tested using the Acceptance Requirements..
The NRCC-MCH-04-E form is not considered a completed form and is not to be accepted by the building department unless the correct boxes are checked. The equipment requiring testing, person performing the test (Example: HVAC installer, TAB contractor, controls contractor, PE in charge of project) and what Acceptance test must be conducted. The following checked-off forms are required for ALL newly installed and replaced equipment. In addition a Certificate of Acceptance forms shall be submitted to the building department that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of Section 10-103(b) and Title 24 Part 6. The building inspector must receive the properly filled out and signed forms before the building can receive final occupancy.

Test Description	MCH-02-A	MCH-03-A	MCH-04-A	MCH-05-A	MCH-06-A	MCH-07-A	MCH-11-A	MCH-12-A	MCH-14-A	MCH-18-A	Test Performed By:
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Distribution Ducts	Economizer Controls	Demand Control Ventilation (DCV)	Supply Fan VAV	Automatic Demand Shed Control	FDD for Packaged DX Units	Distributed Energy Storage DX AC Systems	Energy Management Control System	
AC-1 to AC-10	10	x	x		x							

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
CEC-NRCC-MCH-04-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-04-E
Required Acceptance Tests	(Page 3 of 3)
Project Name: Lifemoves Maple St Shelter-1580 Maple St., Redwood City CA	Date Prepared: 06.17.2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Vy Truong	Documentation Author Signature:
Company: Tantech Engineers	Signature Date: 06.17.2016
Address: 1431 Cedar Street	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Carlos CA 94070	Phone: 415-269-4283

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1. The information provided on this Certificate of Compliance is true and correct.
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5. I will ensure 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: Vy Truong	Responsible Designer Signature:
Company : Tantech Engineers	Date Signed: 06.17.2016
Address: 1431 Cedar Street	License: M32860
City/State/Zip: San Carlos CA 94070	Phone: 415-269-4283

STATE OF CALIFORNIA
REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS
CEC-NRCC-MCH-05-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-05-E
Requirements for Packaged Single-Zone Units	(Page 1 of 2)
Project Name: Lifemoves Maple St Shelter, 1580 Maple St, Redwood City CA	Date Prepared: 06.17.2016

Equipment Tag(s)[1]		AC-7		AC-8		AC-10	
MANDATORY MEASURES	***T-24 Sections***	***Requirement*[2]**	***As Scheduled*[3]**	***Requirement*[2]**	***As Scheduled*[3]**	***Requirement*[2]**	***As Scheduled*[3]**
Heating Equipment Efficiency[4]	110.1 or 110.2(a)	80%	82%	80%	82%	80%	82%
Cooling Equipment Efficiency[4]	110.1 or 110.2(a)	12.0 EER	13.0 EER	12.0 EER	13.0 EER	12.0 EER	13.0 EER
Thermostats[5]	110.2(b), 110.2(c)	programmable	programmable	programmable	programmable	programmable	programmable
Furnace Standby Loss Control[6]	110.2(d)	N/A	N/A	N/A	N/A	N/A	N/A
Low Leakage AHU	110.2(f)	N/A	N/A	N/A	N/A	N/A	N/A
Ventilation[7]	120.1(b)	700 CFM	850 CFM	300 CFM	400 CFM	650 CFM	750 CFM
Demand Control Ventilation[8]	120.1(c)4	N/A	N/A	N/A	N/A	N/A	N/A
Occupant Sensor Ventilation Control[8]	120.1(c)5, 120.2(e)3	N/A	N/A	N/A	N/A	N/A	N/A
Shutoff and Reset Controls[9]	120.2(e)	N/A	N/A	N/A	N/A	N/A	N/A
Outdoor Air and Exhaust Damper Control	120.2(f)	N/A	N/A	N/A	N/A	N/A	N/A
Automatic Demand Shed Controls	120.2(h)	N/A	N/A	N/A	N/A	N/A	N/A
Economizer FDD	120.2(i)	N/A	N/A	N/A	N/A	N/A	N/A
Duct Insulation	120.4	R4.2	R4.2	R4.2	R4.2	R4.2	R4.2
PRESCRIPTIVE MEASURES							
Equipment is sized in conformance with 140.4 (a & b)	140.4(a & b)	90 mbh sens 110 mbh heat	81 mbh sens 103 mbh heat	35 mbh sens 62 mbh heat	33 mbh sens 59 mbh heat	70 mbh sens 110 mbh heat	69 mbh sens 103 mbh heat
Economizer	140.4(e)	REQUIRED	M0.1	REQUIRED	M0.1	NOT REQD	M0.1
Electric Resistance Heating[10]	140.4(g)						
Duct Leakage Sealing and Testing.[11]	140.4(l)						

Notes:
1. *Provide equipment tags (e.g. AC1 or AC1 to 10). Multiple units of the same make and model with the same application and accessories can be grouped together.*
2. *Enter the following information as appropriate: Unit Manufacturer; Unit Model Number (including all accessories); Description of the unit (e.g. gas-pack or heat pump; rated heating capacity (enter "N/A" if no heating); and, rated cooling capacity (enter "N/A" if no cooling). For unit capacities include the units (e.g. kBtuh or tons).*
3. *For each requirement, enter the minimum requirement from the Standard in the left column (under "Standard Requirement"). In the right column (under "As Scheduled") enter the value for the units as specified.*
4. *Where there is more than one requirement (e.g. full and part load efficiency) enter both with the appropriate labels (e.g. COP and IEER).*
5. *In the left column identify the thermostatic requirements from the standard (e.g. programmable setback thermostat or heatpump with electric heat),. In the right column indicate the capabilities of the thermostat as scheduled.*
6. *If the unit has a furnace which is rated at >=225,000 Btuh of capacity, indicate the rated standby loss and ignition source (e.g. IID). If there is no furnace or the unit is rated for <225,000 Btuh indicate "N/A".*
7. *In the left column, enter both the required ventilation value from Table 120.1A and for the number of occupants times 15 cfm/person. In the right column enter the actual minimum ventilation as scheduled. If the space is naturally ventilated enter "N/A" in the left column and "the space is naturally ventilated" in the right column.*
8. *If the space is required to have either DCV or Occupant Sensor Ventilation Control indicate "required" in the left column (otherwise indicate "N/A" in the left column). If either DCV or Occupant Sensor Ventilation Control is provided indicate "provided" in the right column (otherwise indicate "N/A" in the right column)*
9. *In the left column indicate the required time controls from the standard. In the right column identify the device that provides this functionality (e.g. EMCS or programmable timeclock).*
10. *Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.*
11. *If duct leakage sealing and testing is required, a **MCH-04-A** form must be submitted.*

STATE OF CALIFORNIA
REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS
CEC-NRCC-MCH-05-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-05-E
Requirements for Packaged Single-Zone Units	(Page 1 of 2)
Project Name: Lifemoves Maple St Shelter, 1580 Maple St, Redwood City CA	Date Prepared: 06.17.2016

Equipment Tag(s)[1]		AC-1,4,6,9		AC-2,3		AC-5	
MANDATORY MEASURES	***T-24 Sections***	***Requirement*[2]**	***As Scheduled*[3]**	***Requirement*[2]**	***As Scheduled*[3]**	***Requirement*[2]**	***As Scheduled*[3]**
Heating Equipment Efficiency[4]	110.1 or 110.2(a)	80%	82%	80%	82%	80%	82%
Cooling Equipment Efficiency[4]	110.1 or 110.2(a)	12.0 EER	13.0 EER	12.0 EER	13.0 EER	12.0 EER	13.0 EER
Thermostats[5]	110.2(b), 110.2(c)	programmable	programmable	programmable	programmable	programmable	programmable
Furnace Standby Loss Control[6]	110.2(d)	N/A	N/A	N/A	N/A	N/A	N/A
Low Leakage AHU	110.2(f)	N/A	N/A	N/A	N/A	N/A	N/A
Ventilation[7]	120.1(b)	500 CFM	600 CFM	400 CFM	500 CFM	300 CFM	360 CFM
Demand Control Ventilation[8]	120.1(c)4	N/A	N/A	N/A	N/A	N/A	N/A
Occupant Sensor Ventilation Control[8]	120.1(c)5, 120.2(e)3	N/A	N/A	N/A	N/A	N/A	N/A
Shutoff and Reset Controls[9]	120.2(e)	N/A	N/A	N/A	N/A	N/A	N/A
Outdoor Air and Exhaust Damper Control	120.2(f)	N/A	N/A	N/A	N/A	N/A	N/A
Automatic Demand Shed Controls	120.2(h)	N/A	N/A	N/A	N/A	N/A	N/A
Economizer FDD	120.2(i)	N/A	N/A	N/A	N/A	N/A	N/A
Duct Insulation	120.4	R4.2	R4.2	R4.2	R4.2	R4.2	R4.2
PRESCRIPTIVE MEASURES							
Equipment is sized in conformance with 140.4 (a & b)	140.4(a & b)	60 mbh sens 62 mbh heat	58 mbh sens 59 mbh heat	48 mbh sens 62 mbh heat	46 mbh sens 59 mbh heat	38 mbh sens 51 mbh heat	35 mbh sens 49 mbh heat
Economizer	140.4(e)	REQUIRED	M0.1	REQUIRED	M0.1	NOT REQD	M0.1
Electric Resistance Heating[10]	140.4(g)						
Duct Leakage Sealing and Testing.[11]	140.4(l)						

Notes:
1. *Provide equipment tags (e.g. AC1 or AC1 to 10). Multiple units of the same make and model with the same application and accessories can be grouped together.*
2. *Enter the following information as appropriate: Unit Manufacturer; Unit Model Number (including all accessories); Description of the unit (e.g. gas-pack or heat pump; rated heating capacity (enter "N/A" if no heating); and, rated cooling capacity (enter "N/A" if no cooling). For unit capacities include the units (e.g. kBtuh or tons).*
3. *For each requirement, enter the minimum requirement from the Standard in the left column (under "Standard Requirement"). In the right column (under "As Scheduled") enter the value for the units as specified.*
4. *Where there is more than one requirement (e.g. full and part load efficiency) enter both with the appropriate labels (e.g. COP and IEER).*
5. *In the left column identify the thermostatic requirements from the standard (e.g. programmable setback thermostat or heatpump with electric heat), . In the right column indicate the capabilities of the thermostat as scheduled.*
6. *If the unit has a furnace which is rated at >=225,000 Btuh of capacity, indicate the rated standby loss and ignition source (e.g. IID). If there is no furnace or the unit is rated for <225,000 Btuh indicate "N/A".*
7. *In the left column, enter both the required ventilation value from Table 120.1A and for the number of occupants times 15 cfm/person. In the right column enter the actual minimum ventilation as scheduled. If the space is naturally ventilated enter "N/A" in the left column and "the space is naturally ventilated" in the right column.*
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9. *In the left column indicate the required time controls from the standard. In the right column identify the device that provides this functionality (e.g. EMCS or programmable timeclock).*
10. *Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.*
11. *If duct leakage sealing and testing is required, a **MCH-04-A** form must be submitted.*

STATE OF CALIFORNIA
REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS
CEC-NRCC-MCH-05-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-05-E
Requirements for Packaged Single-Zone Units	(Page 2 of 2)
Project Name: Lifemoves Maple St Shelter, 1580 Maple St, Redwood City CA	Date Prepared: 06.17.2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Vy Truong	Documentation Author Signature:
Company: Tantech Engineers	Signature Date: 06.17.2016
Address: 1431 Cedar Street	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: Vy Truong	Responsible Designer Signature:
Company : Tantech Engineers	Date Signed: 06.17.2016
Address: 1431 Cedar Street	License: M32860
City/State/Zip: San Carlos CA 94070	Phone: 415-269-4283

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

These plans are copyrighted and are subject to copyright protection as an "architectural work" under Sec. 102 of the Copyright Act, 17 U.S.O. as amended December 1990 and known as Architectural Works Copyright Protection Act of 1990. The protection includes but is not limited to the overall form as well as the arrangement and composition of spaces and elements of the design. Under such protection, unauthorized use of these plans, work or home represented, can legally result in the cessation of construction or building being seized and /or monetary compensation to CJW Architecture.

PROJECT

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

SHEET TITLE

MECH Title
24 Forms

REVISIONS

No.	Date	Notes
2	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

JOB: 2015.2801

DATE: 06/17/16

SHEET: M4.2

STATE OF CALIFORNIA
WATER HEATING SYSTEM GENERAL INFORMATION
CEC-NRCC-PLB-01-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PLB-01-E
Water Heating System General Information	(Page 1 of 2)
Project Name: Lifemoves Maple St Shelter, 1580 Maple St, Redwood City CA	Date Prepared: 06.17.2016

A. GENERAL INFORMATION/SYSTEM INFORMATION

1.	Water Heater System Name:	WH-1 thru WH-16
2.	Water Heater System Configuration:	Central
3.	Water Heater System Type:	Domestic Hot Water
4.	Building Type:	Non Residential and Residential
5.	Total Number of Water Heaters in Systems:	16
6.	Central DHW Distribution Type:	Other
7.	Dwelling Unit DHW Distribution Type:	N/A

B. WATER HEATER INFORMATION
Each water heater type requires a separate form.

1.	Water Heater Type:	Tankless Type gas fired
2.	Fuel Type	Gas
3.	Manufacture Name	Rinnai
4.	Model Number	C-199i
5.	Number of Identical Water Heaters:	N/A
6.	Installed Water Heater System Efficiency:	96%
7.	Required Minimum Efficiency:	80%
8.	Standby loss percent or Standby loss total:	4%
9.	Rated Input	199,000 btuh
10.	Pilot Energy:	N/A
11.	Water Heater Tank Storage Volume:	N/A
12.	Exterior Insulation On Water Heater:	R8
13.	Volume of Supplemental Storage:	N/A
14.	Internal Insulation on Supplemental Storage:	N/A
15.	Exterior Insulation on Supplemental Storage:	N/A

C. PLUMBING COMPLIANCE FORMS & WORKSHEETS
(check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, refer to the 2013 Nonresidential Manual Note: The Enforcement Agency may require all forms to be incorporated onto the building plans.

YES	NO	Form/Worksheet #	Title
☒	☐	NRCC-PLB-01-E	Certificate of Compliance, Declaration. Required on plans for all submittals.
☒	☐	NRCI-PLB-01-E	Certificate of Installation. Required on plans for all submittals.
☐	☒	NRCI-PLB-02-E	Certificate of Installation, required on central systems in high-rise residential, hotel/motel application.
☐	☒	NRCI-PLB-03-E	Certificate of Installation, required on single dwelling unit systems in high-rise residential, hotel/motel application.
☐	☒	NRCI-PLB-21-H	Certificate of Installation, required on HERS verified central systems in high-rise residential, hotel/motel application.
☐	☒	NRCI-PLB-22-H	Certificate of Installation, required on HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.
☐	☒	NRCI-STH-01-E	Certificate of Installation, required on any solar water heating

STATE OF CALIFORNIA
WATER HEATING SYSTEM GENERAL INFORMATION
CEC-NRCC-PLB-01-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PLB-01-E
Water Heating System General Information	(Page 2 of 2)
Project Name: Lifemoves Maple St Shelter, 1580 Maple St, Redwood City CA	Date Prepared: 06.17.2016

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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: Vy Truong	Responsible Designer Signature:
Company: Tantech Engineers	Date Signed: 06.17.2016
Address: 1431 Cedar Street	License: M32860
City/State/Zip: San Carlos CA 94070	Phone: 415-269-4283

STATE OF CALIFORNIA
PROCESS COMPLIANCE FORMS AND WORKSHEETS
CEC-NRCC-PRC-01-E (Revised 12/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PRC-01-E
Process Compliance Forms & Checklists	(Page 1 of 3)
Project Name: Lifemoves Maple St Shelter, 1580 Maple St, Redwood City CA	Date Prepared: 06.17.2016

A. PROCESS COMPLIANCE FORMS & WORKSHEETS
(check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, refer to the 2008 Nonresidential Manual Note: The Enforcement Agency may require all forms to be incorporated onto the building plans.

YES	NO	Form/Worksheet #	Title
☒	☐	PRC-01-E (1 of 2)	Covered Process Certificate of Compliance. Required on plans for all submittals with covered processes.
☒	☐	PRC-01-E (2 of 2)	Certificate of Compliance, Required Acceptance Tests (PRC-02-A to PRC-8-A). Required on plans for all submittals.
☐	☒	PRC-02-E	Compliance Form for Enclosed Parking Garage Exhaust Fans
☒	☐	PRC-03-E	Compliance Form for Commercial Kitchens
☐	☒	PRC-04-E	Compliance Form for Computer Rooms
☐	☒	PRC-05-E	Compliance Form for Commercial Refrigeration
☐	☒	PRC-06-E	Compliance Form for **ALL** Refrigerated Warehouses
☐	☒	PRC-07-E	Compliance Form for Refrigerated Warehouse ≥ 3,000 ft2
☐	☒	PRC-08-E	Compliance Form for Refrigerated Warehouse Where **Multiple** Spaces that (i) comprise a total of 3,000 square feet or more; and (ii) are collectively served by the same refrigeration system compressor(s) and condenser(s) (central systems).
☐	☒	PRC-09-E	Compliance Form for Laboratory Exhaust
☐	☒	PRC-10-E	Compliance Form for Compressed Air Systems
☐	☒	PRC-11-E	Compliance Form for Process Boilers

STATE OF CALIFORNIA
PROCESS COMPLIANCE FORMS AND WORKSHEETS
CEC-NRCC-PRC-02-E (Revised 12/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PRC-01-E
Process Compliance Forms & Checklists	(Page 2 of 3)
Project Name: Lifemoves Maple St Shelter, 1580 Maple St, Redwood City CA	Date Prepared: 06.17.2016

B. PROCESS ACCEPTANCE FORMS
(check box for required forms)

Designer:
This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for process systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. If all equipment of the same type requires a test, list the equipment description and the number of systems.

Installing Contractor:
The contractor who installed the equipment is responsible to either conduct the acceptance test them self or have a qualified entity run the test for them. If more than one person has responsibility for the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsible.

Enforcement Agency:
Plancheck – The NRCC-PRC-01-E form is not considered a completed form and is not to be accepted by the building department unless the correct boxes are checked.
Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operations.

Test Description	PRC-01A	PRC-02A	PRC-03A	PRC-04A	PRC-05A	PRC-06A	PRC-07A	PRC-08A
Equipment Requiring Testing or Verification	# of units	Compressed Air Systems	Garage Exhaust	Kitchen Exhaust	RHW Evap Fan Motor Controls	RHW Evap Condenser Controls	RHW Air Cooled Condenser Controls	RHW Variable Speed Compressors	RHW Elect. Underslab Heating
EF-1	1	☐	☐	☒	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐
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STATE OF CALIFORNIA
PROCESS COMPLIANCE FORMS AND WORKSHEETS
CEC-NRCC-PRC-02-E (Revised 12/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PRC-01-E
Process Compliance Forms & Checklists	(Page 3 of 3)
Project Name: Lifemoves Maple St Shelter, 1580 Maple St, Redwood City CA	Date Prepared: 06.17.2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Vy Truong	Documentation Author Signature:
Company: Tantech Engineers	Signature Date: 06.17.2016
Address: 1431 Cedar Street	CEA / HERS Certification Identification (if applicable):
City/State/Zip: San Carlos CA 94070	Phone: 415-269-4283

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Responsible Designer Name: Vy Truong	Responsible Designer Signature:
Company: Tantech Engineers	Date Signed: 06.17.2016
Address: 1431 Cedar Street	License: M32860
City/State/Zip: San Carlos CA 94070	Phone: 415-269-4283

STATE OF CALIFORNIA
COMMERCIAL KITCHEN REQUIREMENTS
CEC-NRCC-PRC-03-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PRC-03-E
Commercial Kitchen Requirements	(Page 1 of 2)
Project Name: Lifemoves Maple St Shelter, 1580 Maple St, Redwood City CA	Date Prepared: 06.17.2016

VENTILATION COMPLIANCE METHOD: Small Kitchens 149.9(b)2.Ai				
Small Kitchens (≤5,000 CFM Type I and II Hood Exhaust) check one			140.9(b)2 A i	140.9(b)2Aii
Large Kitchens (>5,000 CFM Type I and II Hood Exhaust) check one	140.9(b)2Bi	140.9(b)2Bii(a), (b), (c) and (d)	140.9(b)2Biii	140.9(b)2Biv

KITCHEN ROOM NUMBER: Line 02	
TOTAL INSTALLED TYPE I and II KITCHEN HOOD EXHAUST (CFM): 3850 cfm	
TOTAL BYPASS HOOD MUA (CFM)[1]: n/a	
TOTAL TRANSFER AIR AIRFLOW (CFM)[4]: 385 cfm	
TOTAL MECHANICALLY HEATED OR COOLED MAKE UP AIR (CFM)[5]: 0 cfm	
TOTAL AIR NEEDED FOR HEATING OR COOLING (CFM)[6]: 1600 cfm	
TOTAL EXHAUST AIR WITH DEMAND VENTILATION SYSTEMS[7]: n/a	

Equipment Tags and System Description[8]		H-1,EF-1	MAU-1	
PRESCRIPTIVE MEASURES	***T-24 Sections***	***Reference to the Requirements in the Contract Documents[9]***		
Bypass Hood Exhaust and MUA	140.9(b)1A	N/A	N/A	
Type I/II Hood Exhaust	140.9(b)1B, Table 140.9-A	M0.1,M3.1	M0.1,M3.1	
Mechanically heated or cooled make up air	140.9(b)2A	N/A	N/A	
Replacement Air/Transfer Air Exhaust	140.9(b)Bi	M0.1	M0.1	
Demand Ventilation Systems	140.9(b)2Bii	N/A	N/A	
Energy Recovery Systems	140.9(b)2Biii	N/A	N/A	
Tempered/Non Mechanical Cooling Air Systems	140.9(b)2Biv	M0.1,M3.3,M3.4	M0.1,M3.3,M3.4	

Notes:
1. Fill in one form for each kitchen in the project.
2. Enter the total installed type I and II kitchen hood exhaust airflow in cubic feet per minute (cfm).
3. Enter the make-up air to bypass hoods (cfm).
4. Enter the total transfer air (cfm).
5. Enter the total mechanically cooled or heated make up air (cfm).
6. Enter the maximum air needed for heating or cooling loads (cfm).
7. Enter the design airflow (cfm) of exhaust with demand ventilation system controls.
8. Provide equipment tags (e.g., AHU 1 & 2 or Hoods 1 to 5) for all equipment that is covered by these requirements. Equipment that is similar in requirements and compliance can be grouped in a single column.
9. Provide references to plans (i.e. Drawing Sheet Numbers) and/or specifications (including Section name/number and relevant paragraphs) where each requirement is specified. Enter "N/A" if the requirement is not applicable to this system. Explicitly list any exceptions used to avoid a requirement.

STATE OF CALIFORNIA
COMMERCIAL KITCHEN REQUIREMENTS
CEC-NRCC-PRC-03-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PRC-03-E
Commercial Kitchen Requirements	(Page 2 of 2)
Project Name: Lifemoves Maple St Shelter, 1580 Maple St, Redwood City CA	Date Prepared: 06.17.2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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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: Vy Truong	Responsible Designer Signature:
Company: Tantech Engineers	Date Signed: 06.17.2016
Address: 1431 Cedar Street	License: M32860
City/State/Zip: San Carlos CA 94070	Phone: 415-269-4283

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

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

MECH Title
24 Forms

◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD☐ SUBMITTAL 1
2	8.15.16	PLAN CHEC☐ ☐1 ADDENDUM ☐3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: M4.3

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	

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, PART 11, SECTION 5.410 AND THE CALIFORNIA GREEN BUILDING STANDARDS CODE. ALL PLUMBING FIXTURES SHALL BE TESTED AND COMMISSIONED.

2

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 DRIAN, 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

5

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 2251.101. 5955.100 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 Z-5754-WS1 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 AERATORS 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 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
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 B151 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, MODN 8416 FAUCET, PROFLO PFGD100 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 KLASSIKDRAIN TRENCH DRAIN SYSTEM , 6-INCH WIDTH TRENCH DRAIN SYSTEM, INTERLOCKING PRECAST POLYESTER CONCRETE CHANNELS WITH METAL RAIL , JR SMITH 9870-491 SLOTTED BLACK POLYPROPYLENE 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 PREPPED AND PRENSTALLED ON METAL RACK WITH COMMON CW, HW, GAS, AND CONDENSATE MANIFOLDS, RATED FOR MAX. 199x4=769 MBH GAS INPUT, PROVIDE 8"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 ABOVE NEAREST SINK.						PROVIDE (1) SEPARATE COND. NEUTR. TANK TO SERVE WHR-3 AND WHR-4. EACH RACK AND RUN AS INDIRECT WASTE TO A RECEPTOR IN ATTIC (WITH TRAP PRIMER). SECONDARY 1-INCH DRAIN LINE FROM DRAIN PAN TO DISCHARGE WITH ESCTUCHEON
	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.						
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	SCH 40 CAST IRON	SCH 40 BLACK STEEL	SCH 40 GALV. STEEL	SCH 40 PVC-DWV	SCH 80 PVC-PRESS	SCH 40 CPVC	SCH 'K' DUCTILE IRON	SCH 40 PE-UNDERGRD	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

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	CW	COLD WATER
ICW	ICW	INDUSTRIAL COLD WATER
HW	HW	HOT WATER
HWR	HWR	HOT WATER RETURN
A	A	COMPRESSED AIR
F	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.	PRESSURE GAUGE W/PETE COCK
	G.C.	GAS COCK
	P.R.V.	PRESSURE REDUCING VALVE
	G.V.	GATE VALVE
	FCO	FLOOR CLEANOUT
	WCO	WALL CLEANOUT
		DOWN
		RISE
		UNION
		SLOPE IN DIRECTION OF FLOW
	W.H.A.	WATER HAMMER ARRESTOR
	P.O.C.	POINT OF CONNECTION
	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

P0.1 PLUMBING LEGEND, NOTES AND SCHEDULES
P0.2 RECYCLED WATER SYSTEM NOTES
P2.1 PLUMBING PLAN – WASTE AND VENT
P2.2 PLUMBING PLAN – HOT & CW AND GAS PIPING
P2.3 PLUMBING ROOF PLAN
P2.4 PLUMBING PLAN – DEMOLITION
P2.5 PLUMBING PLAN – PET KENNEL
P3.1 WATER HEATER DETAILS
P3.2 WATER HEATER ACCESSORIES DETAILS
P3.3 PLUMBING DETAILS
P3.4 PLUMBING DETAILS
P3.5 GAS RISER DIAGRAM
P3.6 HOT AND CW RISER DIAGRAM
P3.7 WASTE AND VENT RISER DIAGRAM
P3.8 WASTE AND VENT RISER DIAGRAM 2

PLUMBING LEGEND

SCALE NONE

1

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130 Portola Road, suite A
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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

PLUMBING LEGEND, NOTES, AND SCHEDULES

◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: **P0.1**

RECYCLED WATER SYSTEM:

1. Background: Redwood City's Recycled Water Project provides disinfected tertiary recycled water to City customers for landscape irrigation and a variety of Title 22 approved non–potable uses including dust control, car washing, concrete mixing and other industrial uses.

Redwood City adopted a Recycled Water Use Ordinance in July 2008 that established the recycled water service area and requirements for use within the service area. The Ordinance identifies the required and voluntary uses of recycled water, including requirements for dual plumbing.

2. Project Description: Describe the building in greater detail, include the location of the building, number of stories, rooms, offices, conference rooms, dining room, bathrooms kitchens laundry facility's etc. on each floor. Redwood City will provide potable and recycled water service to the site.

3. Water Supply: Redwood City is the purveyor of both potable and recycled water supplies to the facility. Distribution piping of all water supplies will be labeled accordingly. The following sections provide an overview of the potable and recycled water services.

3.1 Potable Water Service: Section 60314 Report Submittal 2A–E: Describe in detail the potable water lateral line(s) leading from the street to the building. Include the lateral line size street name and all devices potable water will pass through before entering the building.
§60314. Report submittal.
(a) For dual–plumbed recycled water systems, the report submitted pursuant to Section 13522.5 of the Water Code shall contain the following information in addition to the information required by section 60323:
1) A detailed description of the intended use area identifying the following:
a) The number, location, and type of facilities within the use area proposing to use dual plumbed systems,
b) The average number of persons estimated to be served by each facility on a daily basis,
c) The specific boundaries of the proposed use area including a map showing the location of each facility to be served,
d) The person or persons responsible for operation of the dual plumbed system at each facility, and
e) The specific use to be made of the recycled water at each facility.

Example: Two new laterals will be constructed to provide potable water service to the Center – a 6–inch lateral from Main st and a 6–inch lateral from Birch St. A separate water meter will be installed on each lateral. Water in each lateral will pass through its own reduced pressure principle assembly backflow device.

3.2 Recycled Water Service: Section 60314 Report Submittal 2A–E: Describe in detail the recycled water lateral line(s) leading from the street to the building. Include the lateral line size street name and all devices recycled water will pass through before entering the building.
§60314. Report submittal.
(a) For dual–plumbed recycled water systems, the report submitted pursuant to Section 13522.5 of the Water Code shall contain the following information in addition to the information required by section 60323:
1) A detailed description of the intended use area identifying the following:
a) The number, location, and type of facilities within the use area proposing to use dual plumbed systems,
b) The average number of persons estimated to be served by each facility on a daily basis,
c) The specific boundaries of the proposed use area including a map showing the location of each facility to be served,
d) The person or persons responsible for operation of the dual plumbed system at each facility, and
e) The specific use to be made of the recycled water at each facility.

§60315. Design requirements.
The public water supply shall not be used as a backup or supplemental source of water for a dual–plumbed recycled water system unless the connection between the two systems is protected by an air gap separation which complies with the requirements of sections 7602 (a) and 7603 (a) of title 17, California Code of Regulations, and the approval of the Public water system has been obtained.

3.3 Water System Pressure: Water system pressure may vary, the use of pumps may be required, system pressure of the potable water system and recycled water system should be included in this section ; attachments if available.

3.4 Hot Recycled Water Supply: Hot recycled water may be used for commercial laundry, industrial boiler feed. Use(s) shall be listed in this section.

3.5 Distribution System: The potable and recycled water systems will be separate and installed with no cross connections. Each system will be labeled according to Redwood City's Recycled Water Customer Guidelines. Description of pipe identification can be found on (appendix B). Layout(s) shall be included of the recycled and potable water distribution lines. A description of how the potable and recycled water pipelines run throughout the building shall be included in this section.

4. Recycled Water Uses Indoor: Provide a breakdown of each estimated use for each planned recycled water application. Include Indoor, outdoor and cooling towers in this section.

*Recycled water lines are not allowed to pass over area where food is being prepared.

4.1 Recycled Water Uses Outdoor: Provide a breakdown of each estimated use for planned outdoor recycled water application.

4.2 Recycled Water Irrigation: Recycled water is to be used for landscape irrigation. Irrigation hours and use will be in accordance with the City's Recycled Water User Guidelines. Recycled water used for irrigation is metered separately from the indoor recycled water use.

5. Labeling and Signage:
5.1 Above Grade Piping
(1) Potable water pipelines must be labeled with a green background and white lettering. Potable water pipelines may also be wrapped with blue identification tape having the words "POTABLE WATER" visible in contrasting white letters.
(2) Recycled water pipelines must be labeled with a purple background and black uppercase lettering having the words "RECYCLED WATER – DO NOT DRINK" visible in contrasting letters.
• Flexible conduits or hoses must be clearly labeled "CAUTION – RECYCLED WATER" with each adapter or fitting painted purple.
• Piping and fittings, newly installed or existing, must be identified by the application of Mylar tape with wording identifying the pipe as recycled–water piping.
(1) Non–potable water pipelines must be appropriately labeled with a yellow background and black lettering having the words "NON–POTABLE WATER – DO NOT DRINK" visible in contrasting letters.

Exposed valve boxes, vaults, quick coupling valves, outlets and related appurtenance must be color– coded, labeled or tagged, to differentiate recycled water from potable water:
(1) ?For potable water: "POTABLE WATER" in white lettering on a blue background.
(2) For recycled water: "CAUTION – RECYCLED WATER – DO NOT DRINK" in black or white contrasting lettering on a purple background.
(3) For non–potable water: "NON–POTABLE WATER – –– DO NOT DRINK" in contrasting lettering on a yellow background
Tags must be identified with the appropriate wording on both sides. Tags identifying recycled water must have both the appropriate wording and the "Do Not Drink" symbol
5.2 Buried Water Piping
New Pipes:
1) All buried potable lines must be identified by continuous lettering on 3–inch minimum width blue tape with 1–inch white lettering bearing the wording "POTABLE WATER" permanently affixed at 10 foot intervals atop all horizontal piping, laterals and mains.
• Identification tape must extend to all valve boxes, vaults and exposed piping.
• Identification tape is not necessary for extruded blue–colored PVC with continuous wording "POTABLE WATER" printed in contrasting lettering on opposite sides of the pipe.
2) Buried recycled water piping must be purple colored and continuously marked with the wording "RECYCLED WATER – DO NOT DRINK" on opposite sides of the pipe.
• Tape that is at least 3–inches in width and runs continuously along the length of the pipe containing the words "RECYCLED WATER – DO NOT DRINK" is an acceptable alternative to printed pipe.
• The letters must be at least 1–inch in height and either black or white contrasting lettering.
• The tape must be permanently secured to the top of all pipes, mains and laterals.

Existing Pipes:
3) Existing piping need not be marked unless exposed during construction or maintenance. The exposed section of pipe should be appropriately marked as "POTABLE WATER" to the extent feasible.
4) Existing piping need not be marked unless exposed during construction or maintenance. The exposed section of pipe should be marked as "RECYCLED WATER– DO NOT DRINK" to the extent feasible.
5.3 Purple Wrapping Tape Specifications
Where it is not feasible to use purple pipe, exposed recycled water pipes should be wrapped with purple tape. Wrapping should be as follows:
2) Tape shall be fabricated of polyvinyl chloride with a synthetic rubber adhesive and a clear polypropylene protective coating or approved equal.
3) Wrapping tape shall have a minimum nominal thickness of five ten–thousandths (0.0005) inch and a minimum width of two 2 inches.
4) Tape must be purple in color and shall be imprinted in nominal 1/2 inch high black, uppercase letters, with the words "CAUTION: RECYCLED WATER – DO NOT DRINK".
o The lettering shall be imprinted in two 2 parallel lines, such that after wrapping the pipe with 1/2 width overlap, 1 full line of text shall be visible.
5) Wrapping tape is not required for buried PVC pipe manufactured with purple color integral to the plastic and marked on opposite sides to read "CAUTION: RECYCLED WATER – DO NOT DRINK" in intervals not to exceed three 3 feet.

5.4 Appurtenances Identification
Recycled water appurtenances must be identified with tags or labels as belonging to the recycled water system. Recycled water tags or labels must have a purple background with black lettering stating "RECYCLED WATER – DO NOT DRINK," and a "Do Not Drink" symbol.

Potable water appurtenances located near recycled water should be tagged or labeled as part of the potable water system. Labels must have a blue background with "POTABLE WATER" in white lettering.
Examples of appurtenances that must be identified are:
• Valves: Including air/vacuum relief valves, pressure reducing valves, pump control valves, etc.
• Pumps
• Pressure regulators
• Flow meters
• Quick couplers
• Strainers
• Other related components (i.e. trap primers, shock arresters)
• Tank–type water closets that are flushed with reclaimed water shall be labeled: "RECYCLED WATER_ DO NOT DRINK"

5.5 Valves
All valves must have an identification tag on the valve operator. Additionally quick coupling valves must also be installed in a valve box with the valve box cover imprinted with the words "RECYCLED WATER".

5.6 Valves and Mechanical Equipment
1) All valves, except fixture supply control valves, shall be equipped with a locking feature.
2) All mechanical equipment, which is appurtenant to the recycled water system, shall be painted purple to match the wrapping tape.

5.7 Valve Seals
Seal each valve or appurtenance after the reclaimed system has been approved, and placed into operation. These seals shall either be a crimped lead wire seal, or a plastic break–away seal which, if broken after system approval, shall be deemed conclusive evidence that the reclaimed water system has been accessed. The seals should be purple with the words "RECYCLED WATER".

6. Operation:

6.1 Site Supervisor: Each Site must designate a Site Supervisor will be responsible for operation of the on–site water and recycled water systems. The Site Supervisor will be the City's point of contact for the recycled water system and will be involved with monitoring and maintaining the system. The Site Supervisor will be responsible for conducting and submitting all monitoring reports to the City, and will be present for all cross connection inspections and testing.

6.2 Self– Monitoring Reports: Redwood City requires all recycled water users to prepare and submit monthly monitoring reports. Dual Plumbed building monitoring reports include the annual inspection requirements identified in Chapter 16A of the 2013 California Plumbing Code (as may be updated from time to time), as well as site specific requirements as determined by Redwood City. Section 8.3 lists the annual inspection requirements that will be incorporated into the monthly self –monitoring report.

7. Cross Connection Testing and Inspection: Existing Title 22 regulations require an annual visual inspection of the dual plumbed system for possible cross connections between the recycled and potable water systems. The recycled water system must also be tested at least once every four years for possible cross connections. Both the inspections and testing must be conducted by a certified cross connection control specialist.

7.1 Overview of Redwood City's Cross Connection Program: The City has an adopted Cross Connection Control Program that originated in 2008 (Ordinance No. 2331) and was amended in 2013 (Ordinance No. 2391). A copy of Ordinance No. 2391 is included as Appendix A. The terms of the Ordinance are incorporated into Article VII of the City's Municipal Code. The Code includes the requirements for separation of the potable and non–potable water systems, backflow device installation and testing, and air gap separation, as well as cross connection prohibition. The Code also specifies customer/user responsibilities for testing.

Recycled water customers are responsible for contracting with a certified Cross Connection Control Specialist to perform the annual visual inspections and the annual cross connection test. The City will mail a reminder to customers that will include directions for submitting test results to the City. The City maintains a database of all cross connection testing. A City representative will be present at all visual inspections and cross connection tests.

7.2 Initial Cross Connection Test: Prior to delivering recycled water to the site, the City will conduct two tests: 1) Full– shut down test; and 2) Cross Connection Test as described in Appendix B.
The Full–Shut Down test will be conducted by the Contractor under direction and in the presence of City staff. The test will consist of two parts. Part 1 will consist of pressurizing the potable water system and de–pressurizing the recycled water system. Part 2 will consist of pressurizing the recycled water system and de–pressurizing the potable water system.

1. Pressurization of the potable water system and de–pressurization of the Recycled water system.
2. Verification of flow from the potable water outlets and absence of flow from the Recycled water system outlets.
3. Pressurization of the Recycled water system and de–pressurization of the potable water system.
4. Verification of flow from the Recycled water outlets and absence of flow from the potable water system outlets.

7.2.1 §60316. Operation requirements.
(a) Prior to the initial operation of the dual–plumbed recycled water system and annually thereafter, the Recycled Water Agency shall ensure that the dual plumbed system within each facility and use area is inspected for possible cross connections with the potable water system. The recycled water system shall also be tested for possible prior to the delivery of recycled water to the facility.
cross connections at least once every four years. The testing shall be conducted in accordance with the method described in the report submitted pursuant to section 60314. The inspections and the testing shall be performed by a cross connection control specialist certified by the California–Nevada section of the American Water Works Association or an organization with equivalent certification requirements. A written report documenting the result of the inspection or testing for the prior year shall be submitted to the department within 30 days following completion of the inspection or testing.

(b) The recycled water agency shall notify the department of any incidence of backflow from the dual–plumbed recycled water system into the potable water system within 24 hours of the discovery of the incident.

7.3 Annual Cross Connection Test
The City will conduct a Cross Connection Inspection and Test annually in coordination with the Site Supervisor. The customer will hire a cross connection control specialist to perform the Annual Visual Inspection. The visual inspection will be conducted In accordance with the Visual Inspection Checklist included in the City's Recycled Water User Guidelines.
The Annual Visual Inspection will be conducted by a certified Cross Connection Control Specialist and will be performed in the presence of the Site Supervisor and City staff. The inspection will include a check of the following:
1. Meter locations of the recycled water and potable water lines to verify that no modifications were made, and that no cross–connections are visible
2. All pumps and equipment, equipment room signs, and exposed piping in the equipment room.
3. All valves to ensure that valve lock seals are still in place and intact.
4. All valve control door signs shall be checked to verify that no signs have been removed. If the visual inspection indicates that the recycled water plumbing has been modified, a Cross–Connection Test is required

7.4 Required 4 year Shut down Test

§60314. Report submittal. (3) The methods to be used by the recycled water agency to assure that the installation and operation of the dual plumbed system will not result in cross connections between the recycled water piping system and the potable water piping system. This shall include a description of pressure, dye or other test methods to be used to test the system every four years.

All dual plumbed buildings are required to perform a full Cross Connection test every 4 years. Inspection may occur more frequent if required by the State, the site has history of violations or cross connections. Currently, a full shut down test is the only approved Cross Connection method in Redwood City. Alternative methods for a Cross Connection test must submitted along with the testing procedures to the State Water Resource Board.

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

Recycled Water System Notes

◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

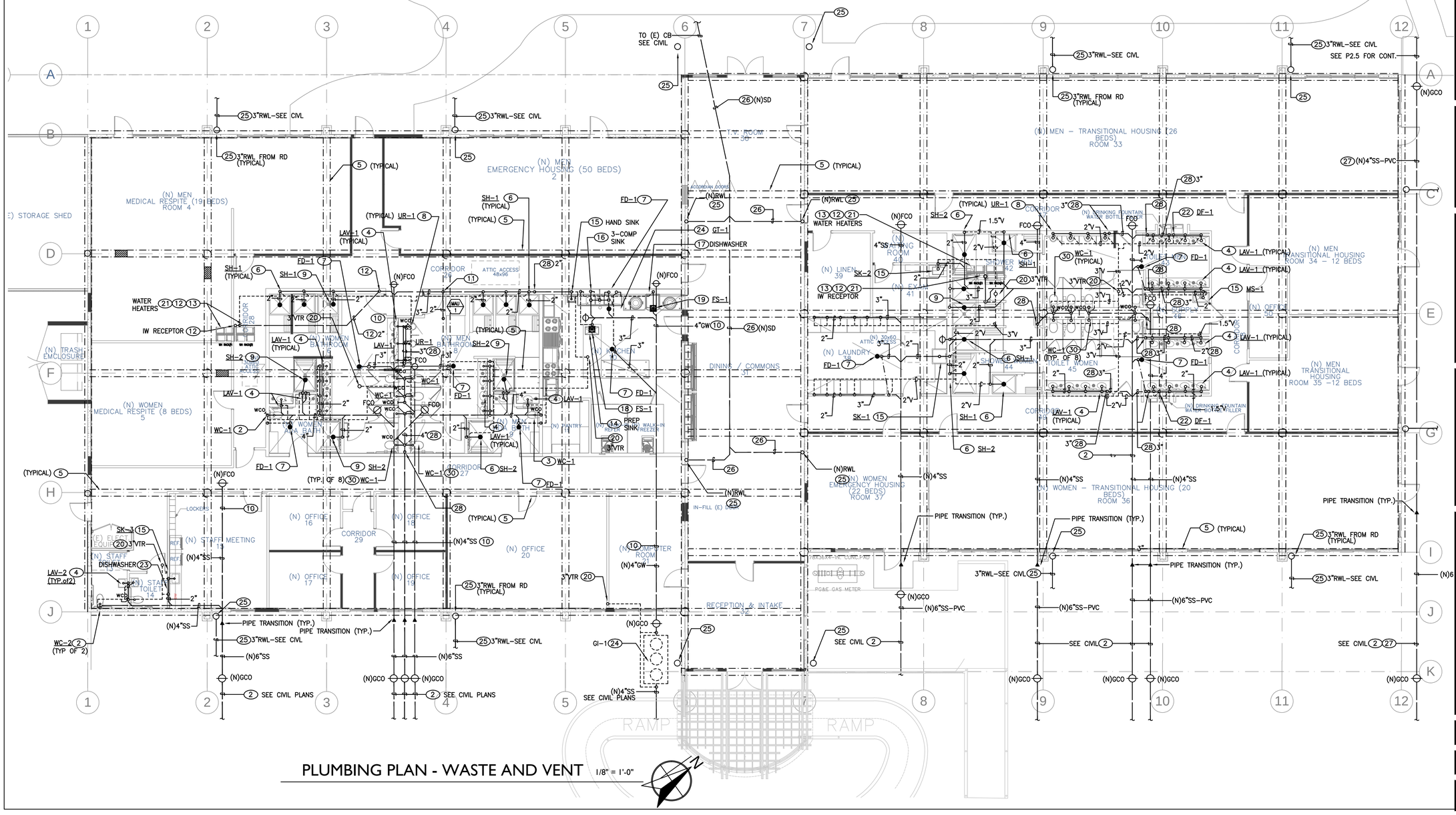
◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: P0.2

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 3" 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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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

PLUMBING PLAN - WASTE AND VENT

◦ REVISIONS ◦

No.	Date	Notes
2	6.17.16	BLD□ SUBMITTAL 1
	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

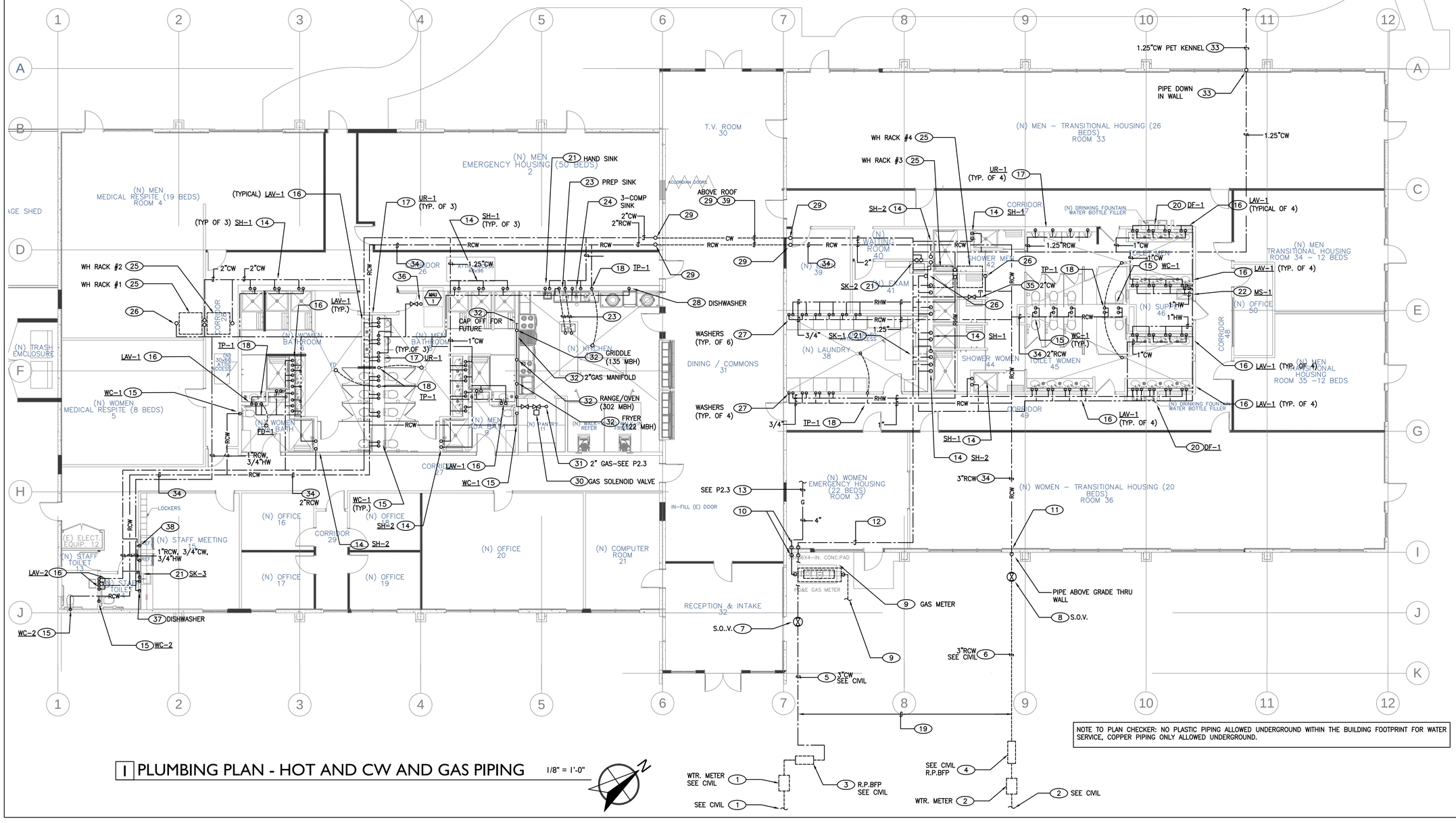
◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: P2.1 2

KEYED SHEET NOTES:

1. NEW 2" DOMESTIC WATER SERVICE AND METER AND NEW 3" LATERAL AFTER METER – SEE CIVIL PLANS.
2. NEW 2" WATER METER – SEPARATE FROM POTABLE DOMESTIC WATER SYSTEM, FOR FUTURE CONNECTION TO FUTURE RECYCLED WATER SOURCE FROM REDWOOD CITY. REFER TO SHEET P0.2 FOR REQUIREMENTS. SEE CIVIL PLANS.
3. NEW 3" REDUCED PRESSURE BACKFLOW PREVENTER WITH METAL CAGE ENCLOSURE FOR POTABLE DOMESTIC WATER SYSTEM. INSTALL PER LOCAL WATER UTILITY PROVIDER JURISDICTION REQUIREMENTS.
4. NEW 3" REDUCED PRESSURE BACKFLOW PREVENTER WITH METAL CAGE ENCLOSURE FOR RECYCLED WATER SYSTEM. INSTALL PER LOCAL WATER UTILITY PROVIDER JURISDICTION REQUIREMENTS. PROVIDE LABELS PER SHEET P0.2 REQUIREMENTS AND UTILIZE PURPLE CPVC PIPE SYSTEM.
5. NEW UNDERGROUND 3" COPPER LINE FOR DOMESTIC COLD WATER. UNDERGROUND DOMESTIC HOT AND COLD WATER PIPING SHALL BE ENCLOSED WITH FLEXIBLE 25 MIL PVC PIPE SLEEVING SYSTEM, MANUFACTURED BY IPS WATER-TITE PROTECT-O-SLEEVE, MODEL WTS SERIES, BLUE COLOR FOR CW AND RED COLOR FOR HW PIPING.
6. NEW UNDERGROUND 3" PURPLE CPVC PIPE FOR RECYCLED WATER. REFER TO SHEET P0.2 FOR REQUIREMENTS AND LABELING.
7. PROVIDE 3" MAIN SHUTOFF VALVE WITH CONCRETE CHRISTY BOX.
8. PROVIDE 3" MAIN SHUTOFF VALVE WITH CONCRETE CHRISTY BOX. NEW UNDERGROUND 3" PURPLE CPVC PIPE FOR RECYCLED WATER. REFER TO SHEET P0.2 FOR REQUIREMENTS AND LABELING.
9. 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 P2.3. THE CONTRACTOR SHALL PROVIDE CONCRETE PAD PER PG&E GREENBOOK REQUIREMENTS AND SHALL COORDINATE WITH PG7E FOR METER INSTALLATION. THE ENGINEER HAS ALREADY INITIATED A SERVICE APPLICATION FORM. CONTACT SARAH TARAYA, 415-264-6036, EMAIL: S1TG@pge.com. PROVIDE SEISMIC GAS VALVE AFTER METER BEFORE ENTRY INTO BUILDING ON LOW PRESSURE GAS LINE.
10. PROVIDE 4-INCH DIAMETER LOW PRESSURE GAS LINE FROM METER ASSEMBLY TO THE BUILDING, RUN ABOVE GRADE AT EXTERIOR WALL AND PENETRATE WALL INTO BUILDING AND RISE UP TO CEILING ABOVE SUSPENDED T-BAR, CONCEALED IN CHASE – SEE ARCHITECTURAL PLAN. GAS PIPING SHALL BE WELDED STEEL CONSTRUCTION UNTIL DOWNSIZING TO 2-INCH DIAMETER.
11. RUN 3" PURPLE CPVC PIPE BELOW GRADE AND RISE UP THRU GRADE AND THRU EXTERIOR WALL. RUN IN ATTIC SPACE ABOVE TBAR CEILING.
12. RUN 3" COPPER CW PIPING CONCEALED IN ATTIC SPACE ABOVE T-BAR CEILING.
13. RUN GAS LINE CONCEALED IN ATTIC SPACE ABOVE TBAR CEILING. REFER TO SHEET P2.3 FOR CONTINUATION OF LAYOUT.
14. RUN 3/4" HOT & CW PIPING DOWN TO SHOWER ASSEMBLY WITH PIPE REDUCERS AND THERMOSTATIC MIXING VALVE. MOUNT ACCESSORIES PER MFR INSTRUCTIONS.
15. RUN 1" RCW DOWN TO WC-1 WITH STOP AND SUPPLY ANGLE WALL VALVE. PROVIDE WATER HAMMER ARRESTER AND PIPE REDUCER.
16. RUN 3/4-INCH HOT & CW DOWN TO LAVATORY, CONNECT TO FAUCET. PROVIDE STOP AND SUPPLY VALVES AND TRAP INSULATION KIT. PROVIDE PIPE REDUCER.
17. RUN 1" RCW DOWN TO URINAL WITH PIPE REDUCERS AND SHUTOFF VALVE. PROVIDE WATER HAMMER ARRESTER.
18. GENERAL: PROVIDE 1/2" RCW (TYPE K COPPER) TO TRAP PRIMERS AT ALL FLOOR DRAINS .PROVIDE TRAP PRIMERS BEHIND WALL STAINLESS STEEL ACCESS PANELS WITHIN RESTROOM WALLS.
19. SEPARATE UNDERGROUND CW LINES FROM RCW LINES A MINIMUM OF 10 FEET PER REQUIREMENTS SET FORTH ON SHEET P0.2.
20. RUN 3/4"CW LINE DOWN TO DRINKING FOUNTAIN/WATER DISPENSER AND PROVIDE SHUTOFF VALVE AND PIPE REDUCER.
21. RUN 3/4" CW AND HW DOWN TO SINK WITH PIPE REDUCER TO 1/2" AND WALL ANGLE SHUTOFF VALVES.
22. PROVIDE 3/4" HOT & CW PIPING DOWN TO SINK FAUCET WITH PIPE REDUCERS AS REQUIRED. PROVIDE VACUUM BREAKER AT MOP SINK FAUCET.
23. PROVIDE 3/4" HOT & CW PIPING DOWN IN WALL AND RUN TO ISLAND PREP SINK FAUCET WITH PIPE REDUCERS AS REQUIRED. UNDERGROUND DOMESTIC HOT AND COLD WATER PIPING SHALL BE ENCLOSED WITH FLEXIBLE 25 MIL PVC PIPE SLEEVING SYSTEM, MANUFACTURED BY IPS WATER-TITE PROTECT-O-SLEEVE, MODEL WTS SERIES, BLUE COLOR FOR CW AND RED COLOR FOR HW PIPING.
24. RUN 3/4" CW AND HW DOWN TO 3-COMP SINK WITH PIPE REDUCER TO 1/2" AND WALL ANGLE SHUTOFF VALVES.
25. WATER HEATER RACKS IN ATTIC SPACE, SEE SHEET P2.3 AND SHEET M2.3 FOR LOCATIONS. WATER HEATER RACK #4 IS DESIGNATED FOR RECYCLED HOT WATER SYSTEM TO SERVE LAUNDRY ROOM.
26. RUN 2"CW UP TO WH RACK #1,2,3 AND RUN 2"HW FROM SAME RACKS AS SHOWN. PROVIDE SHUTOFF VALVES AT EACH CONNECTION TO FACTORY PREPIPED MANIFOLD AT RACKS. FOR WH RACK #4, RUN 2"RCW (RECYCLED) UP TO WH RACK AND RUN 2"RHW FROM SAME RACK AND DISTRIBUTE AS SHOWN AS SHOWN. PROVIDE SHUTOFF VALVES AT EACH CONNECTION TO FACTORY PREPIPED MANIFOLD AT RACKS. PIPING SHALL BE CPVC PURPLE PIPE SYSTEM, OR RIGID COPPER PIPES WITH LABELING PER SHEET P0.2.
27. RUN 3/4" RECYCLED RCW AND RHW DOWN TO WALL WASHER BOX WITH PIPE REDUCERS. PROVIDE OATEY ELIMINATOR WASH BOX MODEL 38523 WITH SHUTOFF VALVES AND DRAIN CONNECTOR, RECESSED IN WALL WITH FACEPLATE. INSTALL FLEX HOSES FOR WASHERS TO WALL BOX ASSEMBLY. LABEL WASH BOX PER SHEET P0.2 REQUIREMENTS.
28. RUN 3/4"HW LINE DOWN TO DISHWASHER WITH PIPE REDUCER, CHECK VALVE AND SHUTOFF VALVE.
29. RUN POTABLE CW AND RECYCLED CW BELOW ROOF UP THRU ROOF AND RUN ACROSS FLAT ROOF OVER DINING ROOM AND RUN DOWN AGAIN THRU ROOF TO GET BACK INTO ATTIC SPACE. PROVIDE ROOF JACKS WITH FLASHING AND SEAL WATERTIGHT USING THE ROOFING CONTRACTOR. SEE SHEET P2.3.
30. RUN 2" LOW PRESSURE GAS LINE TO 2" GAS SOLENOID VALVE AND MANUAL SHUTOFF VALVE ABOVE SUSPENDED CEILING. THE ELECTRICIAN SHALL WIRE AND INTERLOCK SOLENOID VALVE WITH ANSUL SYSTEM TO SHUT DOWN IN EVENT OF FIRE BELOW HOOD OR WITH PULL STATION ACTIVATION.
31. 2" GAS IN ATTIC SPACE – SEE SHEET P2.3 FOR CONTINUATION.
32. PROVIDE 2" GAS MANIFOLD BEHIND COOKLINE. AT EACH BRANCH CONNECTION, PROVIDE DIRT LEG, DORMONT GAS VALVE AND FLEXIBLE GAS CONNECTOR FOR EQUIPMENT.
33. RUN 1.25" CW LINE DOWN IN WALL AND RUN THRU WALL AND DOWN TO BELOW GRADE AND RUN LINE UNDERGROUND TO REMOTE PET KENNEL STRUCTURE – SEE SHEET P2.5. SEE NOTE 5 FOR PVC SLEEVE.
34. RUN RECYCLED WATER LINES IN ATTIC SPACE CONCEALED ABOVE SUSPENDED CEILING SYSTEM. FURNISH AND INSTALL A PVC PURPLE PIPE SYSTEM PER SHEET P0.2 REQUIREMENTS. CONTRACTOR HAS ALTERNATE BID OPTION TO INSTALL TYPE "L" COPPER WITH PROPER JACKETING LABEL IN ITS ENTIRETY PER SHEET P0.2 REQUIREMENTS.
35. PROVIDE POTABLE WATER STUBOUT LINES IN ATTIC SPACE CONCEALED ABOVE SUSPENDED CEILING SYSTEM. THE STUBOUTS ARE FOR LAUNDRY ROOM HOT AND COLD WATER SUCH THAT IF THERE IS A PROBLEM WITH RECYCLED WATER, THE PROJECT WILL HAVE ABILITY TO SWITCH OVER TO POTABLE WATER WITH MINIMAL WORK. PROVIDE STUBOUT ALSO AT WATER HEATER RACK #4 IN CASE OF NEED FOR SWITCHOVER TO POTABLE WATER.
36. RUN 3/4" CW – MAKEUP LINE TO MAU-1 IN ATTIC SPACE ABOVE CEILING. SEE SHEET M2.3. PROVIDE BACKFLOW PREVENTER AND SHUTOFF VALVE.
37. 3/4" HW DOWN TO DISHWASHER WITH PIPE REDUCER AND SHUTOFF VALVE.
37. 3/4" HW DOWN TO DISHWASHER WITH PIPE REDUCER AND SHUTOFF VALVE.
38. 1/2" CW DOWN TO REFRIGERATOR ICE MAKER WITH PIPE REDUCER AND SHUTOFF VALVE AND OATEY WALL BOX. PROVIDE FLEX CONNECTOR.
39. CW PIPING EXPOSED ON ROOF SHALL BE EXTERNALLY INSULATED WITH ALUMINUM SERVICE JACKET.



I PLUMBING PLAN - HOT AND CW AND GAS PIPING

1/8" = 1'-0"

NOTE TO PLAN CHECKER: NO PLASTIC PIPING ALLOWED UNDERGROUND WITHIN THE BUILDING FOOTPRINT FOR WATER SERVICE, COPPER PIPING ONLY ALLOWED UNDERGROUND.

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

PLUMBING PLAN - HOT & CW AND GAS PIPING

◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

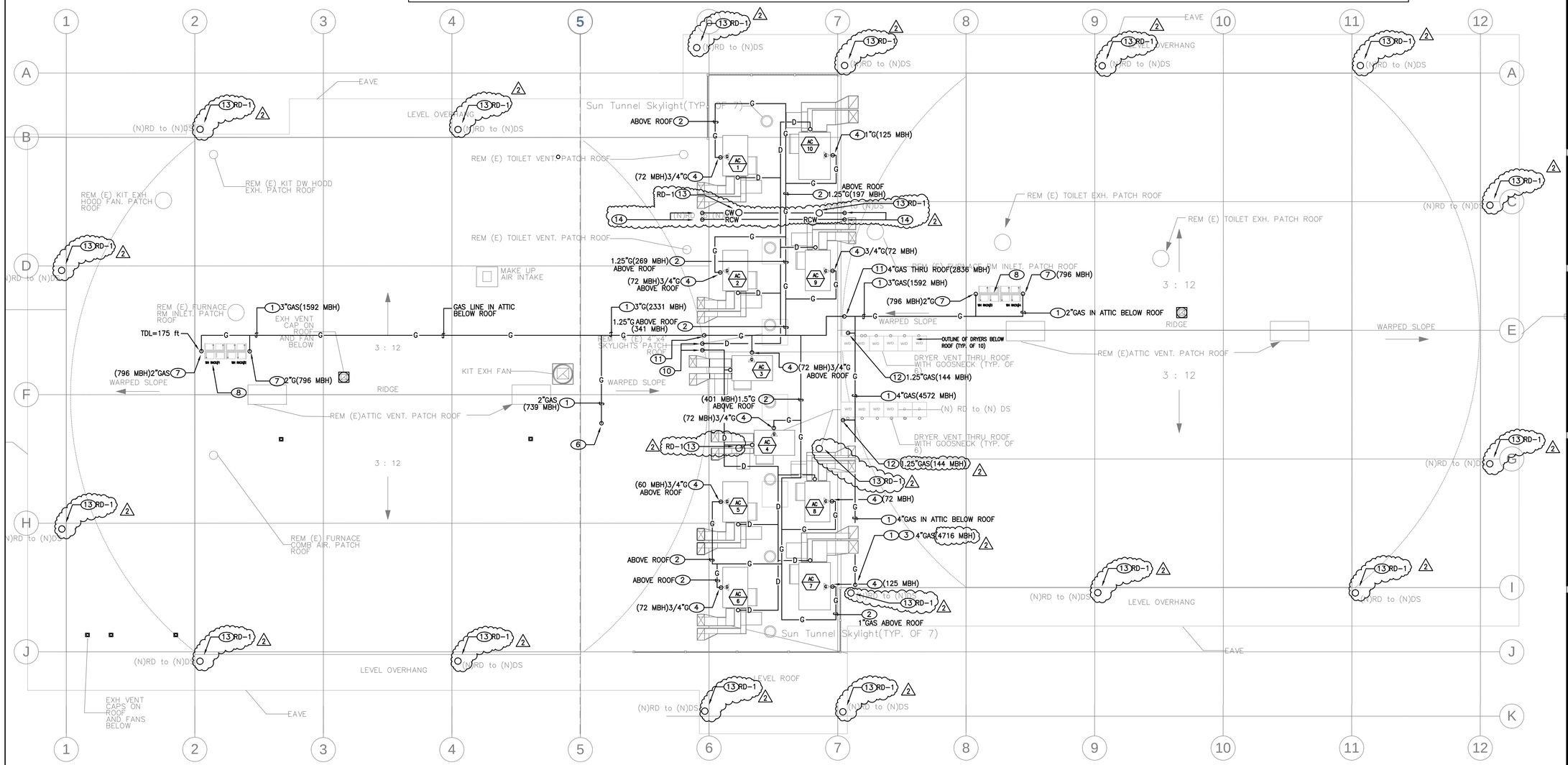
◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: P2.2 2

KEYED SHEET NOTES:

1. GAS LINE BELOW ROOF. SUPPORT PIPING FROM STRUCTURE PER DETAILS 8 & 11/P3.4.
2. GAS LINE ABOVE ROOF. SUPPORT GAS PIPING ABOVE ROOF PER DETAIL 10/P3.4.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL A NEW 4" LOW PRESSURE GAS LINE AND SHALL CONNECT TO THE NEW GAS METER. RUN THE GAS LINE FROM GAS METER AREA TO THE BLDG EXTERIOR WALL AND RISE ABOVE GRADE AND ENTER BUILDING ABOVE GRADE, EXPOSED. RUN NEW 4-INCH GAS LINE IN WALL UP TO ABOVE T-BAR CEILING IN ATTIC SPACE. SUSPEND PIPING FROM STRUCTURE PER DETAIL 8/P3.4 AND DETAIL 11/P3.4. GAS LINE SHALL HAVE WELDED JOINTS.
4. THE CONTRACTOR SHALL FURNISH AND INSTALL A NEW GAS BRANCH LINE TO THE HVAC UNIT ON ROOF. PROVIDE PIPE REDUCER, GAS SHUTOFF VALVE, DIRT LEG AND FLEXIBLE GAS CONNECTOR.
5. THE CONTRACTOR SHALL COORDINATE WITH PG&E TO SET A NEW LARGER GAS METER SIZED FOR THE CAPACITY OF 4668 MBH. ADVISE OWNER AND GENERAL CONTRACTOR ON PG&E LEAD TIMES FOR GAS METER UPGRADE. INSTALL NEW SEISMIC GAS VALVE AFTER GAS METER. THE SERVICE APPLICATION FORM HAS ALREADY BEEN SUBMITTED AND A SERVICE PLANNER HAS BEEN ESTABLISHED.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL A NEW GAS BRANCH LINE TO THE KITCHEN. ROUTE PIPING DOWN TO SOLENOID VALVE AND DOWN IN WALL TO NEW MANIFOLD BEHIND COOKLINE. PIPE SHALL RUN BELOW ROOF.
7. THE CONTRACTOR SHALL FURNISH AND INSTALL A NEW GAS BRANCH LINE TO THE WATER HEATER RACK IN ATTIC SPACE BELOW ROOF. PROVIDE PIPE REDUCER, GAS SHUTOFF VALVE, DIRT LEG, FLEXIBLE GAS CONNECTOR.
8. WATER HEATER RACK BELOW ROOF IN ATTIC SPACE, SHOWN FOR REFERENCE ONLY. REFER TO MECHANICAL PLAN SHEET M2.3 FOR LOCATION AND FOR VENTING INFORMATION. 2
9. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW PLUMBING VENT THRU ROOF. SEAL ROOF PENETRATION USING ROOFING CONTRACTOR. PROVIDE ROOF JACK AND FLASHING FOR WEATHERTIGHT SEAL. LOCATE TERMINATIONS ON ROOF A MINIMUM OF 15 FEET FROM ANY FRESH AIR INTAKES AND FROM ANY OPERABLE WINDOWS.
10. THE CONTRACTOR SHALL RUN 1.25-INCH CONDENSATE DRAIN LINE DOWN THRU ROOF AND SHALL DISCHARGE TO FLOOR SINK BELOW ROOF AS INDIRECT WASTE WITH AIR GAP. SEE SHEET P2.1. SEAL ROOF PENETRATION WATERTIGHT USING ROOFER.
11. RUN GAS LINE BELOW ROOF UP THRU ROOF AND RUN ACROSS FLAT ROOF OVER DINING ROOM AND RUN DOWN AGAIN THRU ROOF TO GET BACK INTO ATTIC SPACE.
12. RUN GAS LINE BELOW ROOF DOWN TO MANIFOLD BEHIND DRYERS AND BRANCH TO EACH DRYER WITH 3/4" PIPE WITH DIRT LEG, SHUTOFF VALVE AND FLEX GAS CONNECTOR. TYPICAL OF 10 DRYERS THAT ARE STACKED ABOVE WASHERS AND (2)ADA DRYERS DOWN LOW. 2
13. CONTRACTOR SHALL REPLACE EXISTING ROOF DRAIN WITH NEW ROOF DRAIN IN SAME LOCATION, WITH NEW RAINWATER LEADER BELOW ROOF AND CONNECT TO NEW DOWNSPOUT BELOW ROOF. REFER TO ARCHITECTURAL PLANS FOR DOWNSPOUT INFORMATION. RAINWATER LEADER TO MATCH EXISTING SIZE – VERIFY IN FIELD.
14. RUN POTABLE CW AND RECYCLED CW BELOW ROOF UP THRU ROOF AND RUN ACROSS FLAT ROOF OVER DINING ROOM AND RUN DOWN AGAIN THRU ROOF TO GET BACK INTO ATTIC SPACE. PROVIDE ROOF JACKS WITH FLASHING AND SEAL WATERTIGHT USING THE ROOFING CONTRACTOR.



PLUMBING ROOF PLAN

1/8" = 1'-0"

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
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Redwood City CA 94063

◦ SHEET TITLE ◦

PLUMBING ROOF PLAN

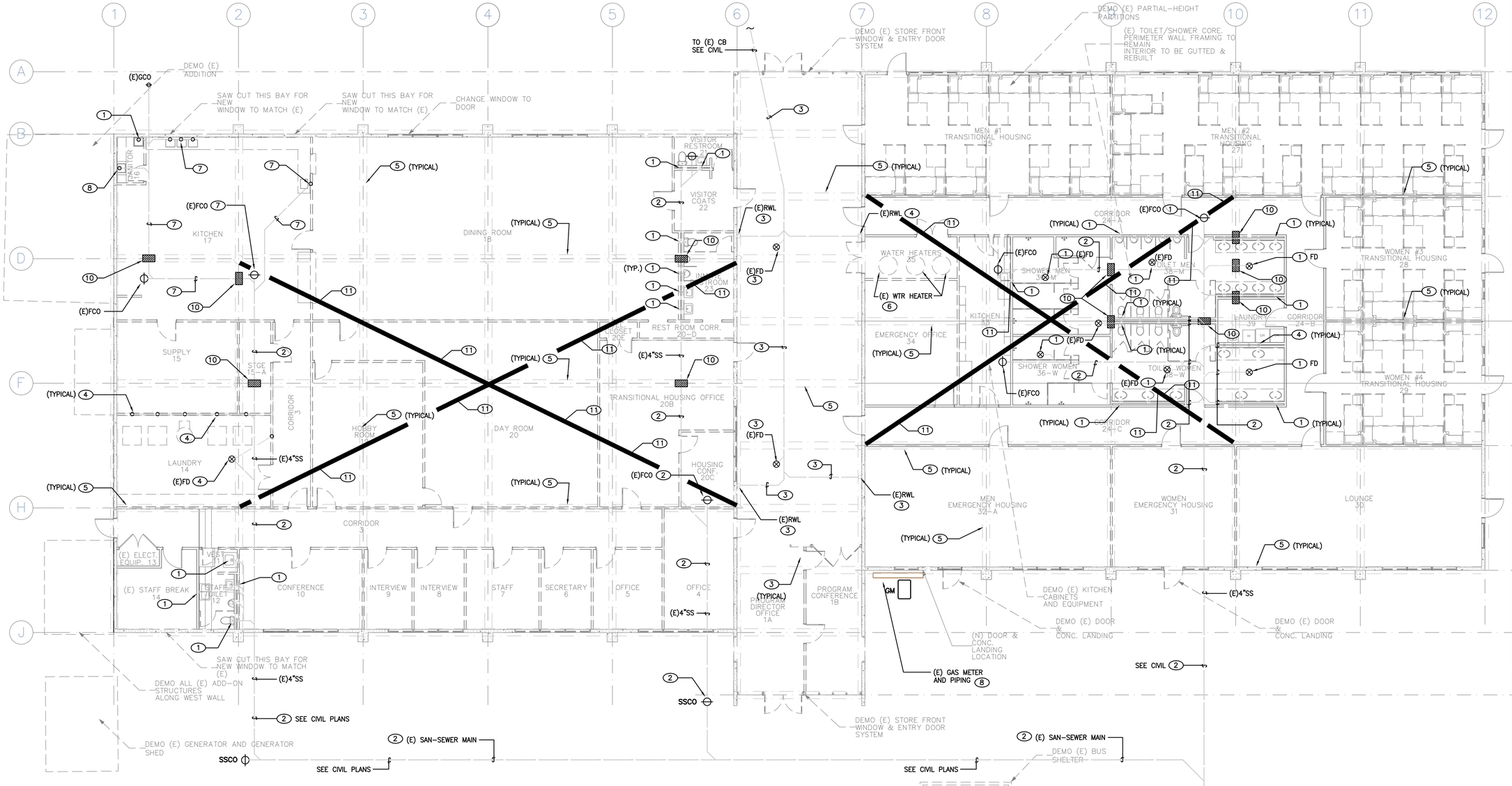
◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: P2.3



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 ALL EXISTING WATER HEATERS OR BOILERS 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.
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 RERERENCE ONLY.

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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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

PLUMBING PLAN - DEMOLITION

◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

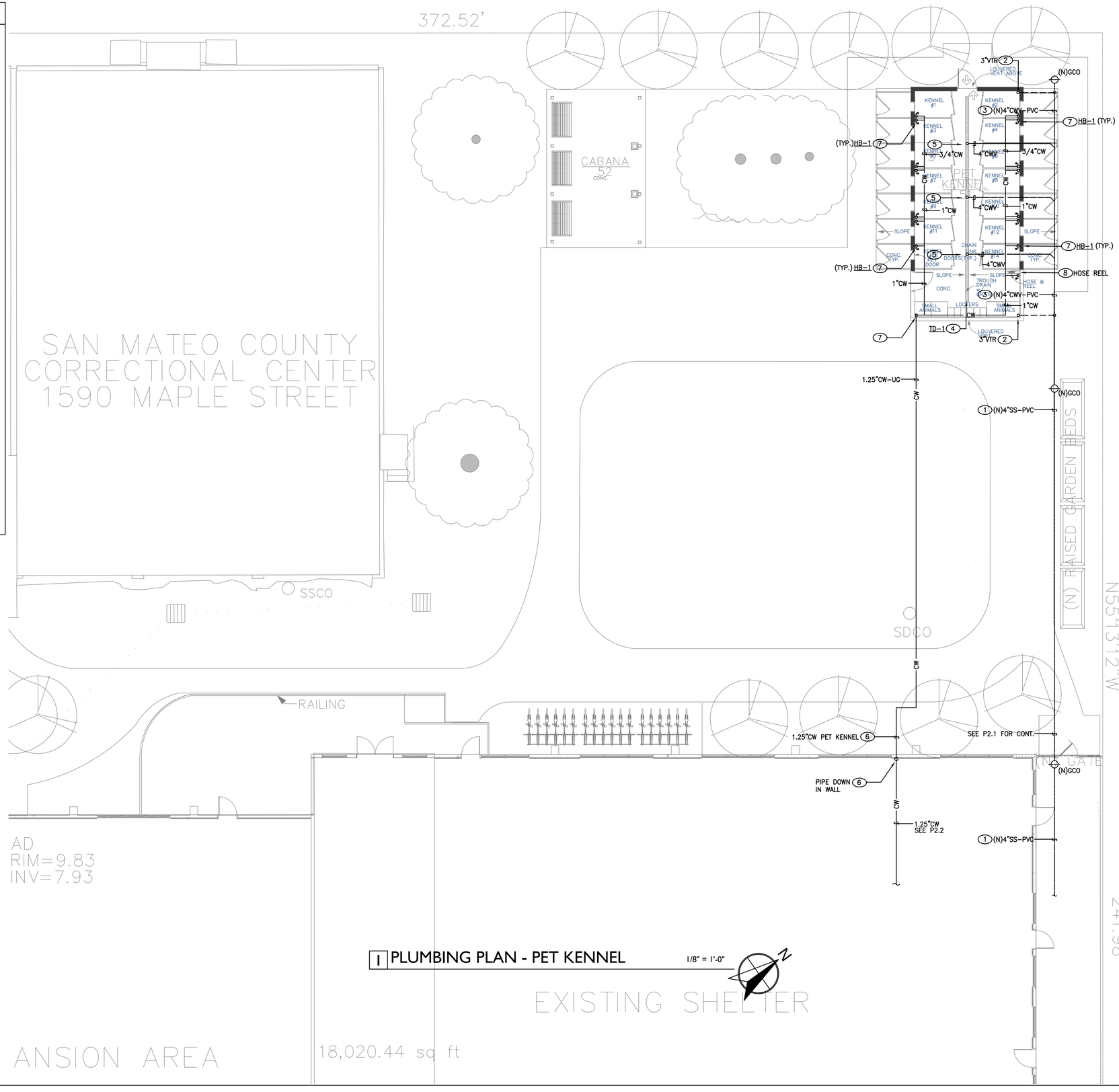
◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: P2.4 2

KEYED SHEET NOTES:

1. 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. THE WORK SHALL INCLUDE EXCAVATION, TRENCHING, BACKFILL AS REQUIRED.
2. RUN 2" SANITARY VENT LINE , PVC SCH 40 DWV SERVICE WEIGHT CONSTRUCTION, SDR–26, TO PET KENNEL STRUCTURE AND RISE UP TO ROOF ABOVE PET KENNEL.
3. RUN 4–INCH COMBINATION WASTE AND VENT LINE TO SERVE PET KENNEL TRENCH DRAIN AS SHOWN.
4. FURNISH AND INSTALL NEW CONTINUOUS TRENCH DRAIN SYSTEM, J.R. SMITH MODEL 9895 SYSTEM, 6–INCH WIDE, KLASSIKDRAIN DRAIN SYSTEM, WITH 9870–491–HPP SLOTTED BLACK POLYPROPYLENE GRATE, INTERLOCKING PRECAST POLYESTER CONCRETE CHANNELS WITH METAL RAIL.
5. RUN 4–INCH COMBINATION BRANCH WASTE AND VENT LINE TO SERVE PET KENNEL TRENCH DRAIN AS SHOWN.
6. RUN NEW UNDERGROUND 1.25" COPPER LINE FOR DOMESTIC COLD WATER. UNDERGROUND COLD WATER PIPING SHALL BE ENCLOSED WITH FLEXIBLE 25 MIL PVC PIPE SLEEVING SYSTEM, MANUFACTURED BY IPS WATER–TITE PROTECT–O–SLEEVE, MODEL WTS SERIES, BLUE COLOR FOR CW.
7. RUN CW LINE TO ABOVE FINISH FLOOR AND DISTRIBUTE TO HOSE BIBBS WITH OVERHEAD LINES AS SHOWN. PROVIDE HOSE BIBB, SURFACE MOUNT, WITH VACUUM BREAKER, WOODFORD MODEL 24 WITH B24 LOCKING BOX.
8. FURNISH AND INSTALL ELEY HOSE REEL, MODEL 1041, WITH 150 FT HOSE, 3/4–INCH DIAMETER, SPRAY NOZZLE, WALL MOUNT WITH HARDWARE, CONNECT TO HOSE BIBB.



1 PLUMBING PLAN - PET KENNEL 1/8" = 1'-0"

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◦ SHEET TITLE ◦

PLUMBING PLAN - PET KENNEL

◦ REVISIONS ◦

No.	Date	Notes
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◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: P2.5 2

Note:

Condensate piping shall be CPVC or PVC material and shall not be smaller than the drain connection on the appliance.

Components of the condensate drainage shall be CPVC or PVC material. All components shall be selected for the pressure and temperature rating of the installation.

Where the drain pipes from more than one unit are manifolded together for condensate drainage, the pipe or tubing shall be sized in accordance with an approved method as dictated by local codes.

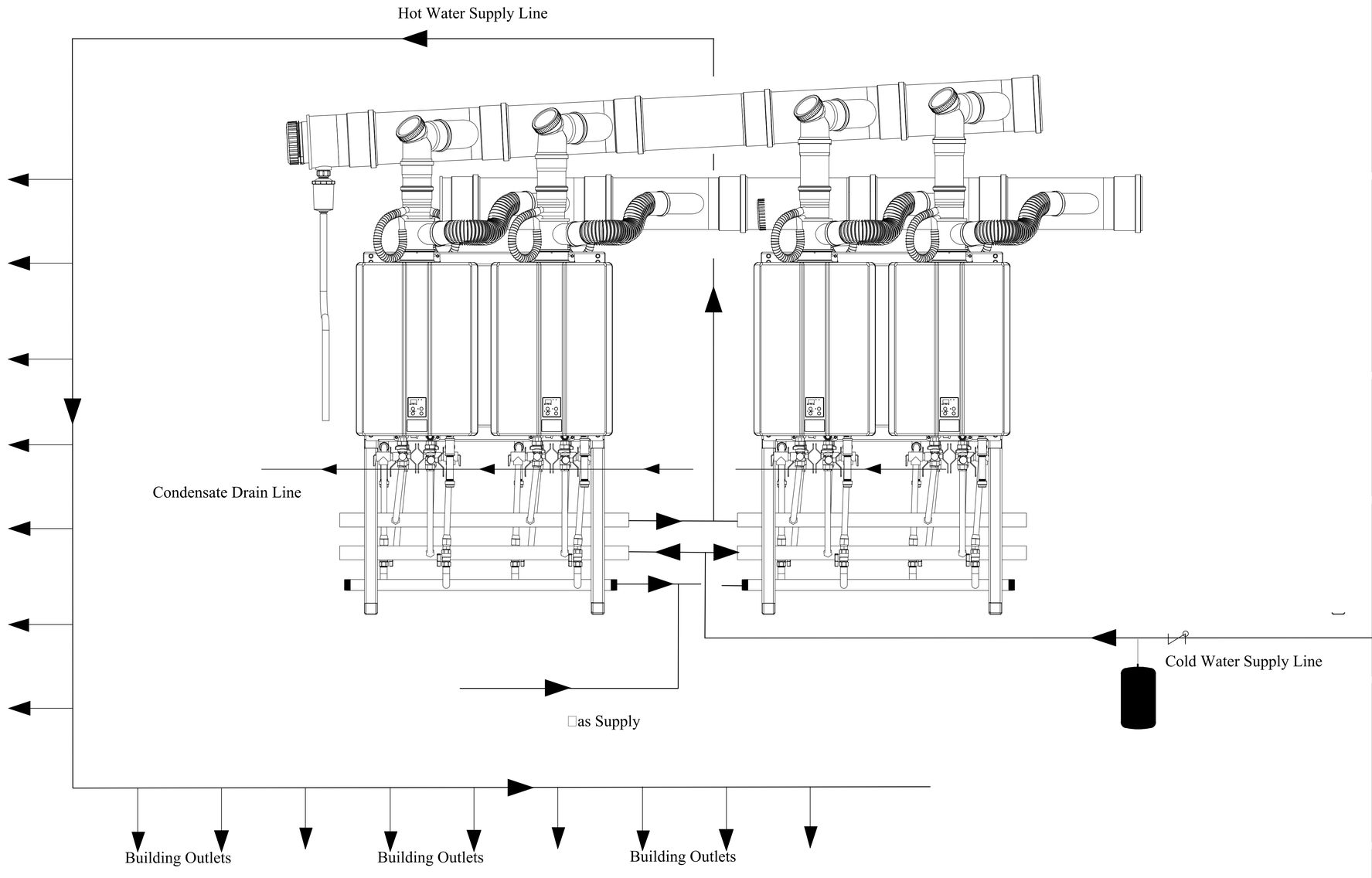
Condensate must be disposed of according to local codes.

Pump should be controlled by an A□uastat, Timer or Combination A□uastat and Timer.

Pump should be sized to maintain circulation loop temperature.

Pump should be sized to overcome the pressure loss through the tankless water heater, supply, and return plumbing. Reference the Rinnai Hot Water System Design Manual, Pump Sizing for Circulation.

Pump should be of bronze or stainless construction.



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◦ PROJECT ◦

LifeMoves Maple Street Shelter
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◦ SHEET TITLE ◦

WATER HEATER DETAILS

◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
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◦ JOB: 2015.2801

◦ DATE: 06/17/16

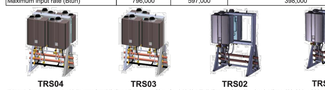
◦ SHEET: P3.1

Rinnai

TANKLESS RACK SYSTEM (TRS)

4 UNIT FREE STANDING FRAME

Model	TRS04	TRS03	TRS02	TRS02IL
Water Heater Model	RU98i, RUC98i, C199i, RU98e, C199e (NG/LP)			
Crate Dimensions (HxLxD) - in	62 x 55 x 36			
Weight - Fully Assembled - lbs	357	284	210	208
Weight - Shipping (total) - lbs	553	480	406	404
Rack Frame - Specifications				
Frame Rail Type	Sheet Metal			
Frame Material	Aluminum (0.090 5052-H32)			
Frame Finish	Powder Coat			
Color	Gray			
Water & Gas Connections				
Hot Water Trunk Line Diameter	2"			
Cold Water Trunk Line Diameter	2"			
Hot Water Trunk Line Material	Rigid Copper			
Cold Water Trunk Line Material	Rigid Copper			
Water Trunk Connection Type	2" PIPE			
Gas Trunk Line Diameter	1-1/4"			
Gas Trunk Connection Type	1-1/4" MNPT			
Gas Trunk Line Material	Sch 40 Steel			
Gas Trunk Branch Line Material	PVC Over CSST			
Condensate Trunk Line Diameter	3/4"		N/A	
Condensate Trunk Material	Sch-40 PVC		N/A	
Condensate Trunk Connection Type	3/4" Pipe		N/A	
Electric Requirements				
Prewired Electrical Assembly	Yes (Indoor Models Only)		N/A	
Voltage	AC 120 Volts—60 Hz			
Maximum Current (Amperes)	16	12	8	
BTU and Flow Rates for RU98i, RUC98i, C199i, RU98e, C199e (NG/LP)				
Number of Tankless Water Heaters	4	3	2	
Flow rate @ 70°F rise (gpm)	21.6	16.2	10.8	
Flow rate @ 100°F rise (gpm)	15.2	11.4	7.6	
Minimum input rate (Btuh)	15,200			
Maximum input rate (Btuh)	796,000	597,000	398,000	



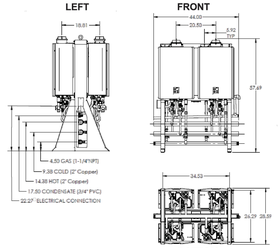
TRS04 TRS03 TRS02 TRS02IL

2

Rinnai

TANKLESS RACK SYSTEM (TRS)

4 UNIT FREE STANDING FRAME



Model	Configuration	Illustration
TRS04		
TRS03		
TRS02IL	Inline (facing same direction)	
TRS02	Back to Back	

Rinnai

MSB Kits for Connecting Multiple Water Heaters

The MSB kits can electronically connect up to 25 water heaters.

For proper operation, it is not recommended that different models be connected together. Combining different models may result in lower performance.

Models

For use with Rinnai Tankless Water Heaters* (except for models V53e, V53i, and R63LSe which must use pressure activation valves, PVA).

System Operation

When multiple water heaters are operating, they will attempt to supply equal amounts of hot water.

The order in which each water heater operates is occasionally rotated to ensure equal usage among the entire system.

On initial water flow demand, 1 to 3 units are in standby which means that their servos valves are open until flow demand is determined. Only the necessary number of water heaters will begin to fire to meet demand. Water heaters not firing will close their valves.

The number of units that are in standby can be determined by a dip switch setting of the master MSB board. It is recommended that the dip switch settings on MSB boards other than the master MSB board be set for 1 unit in standby.

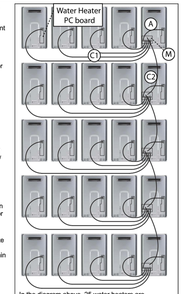
The number of units in standby will affect the activation flow rate. With 3 units in standby, the activation flow rate is 3 times the rate for a single water heater. If the activation flow rate for a single water heater is 0.4 gal/min then for a system with 3 waters heaters in standby, the activation flow rate will be 1.2 gal/min.

Temperature

The temperature setting for all of the connected water heaters is controlled by the temperature controller connected to the water heater with the master MSB Board. Temperature controllers connected to the other units will provide maintenance codes for their respective units.

If water heaters do not use a temperature controller, the temperature will be that temperature setting of the water heater with the master MSB board (120°F or 140°F).

On applicable models (VA, VB), a single MCC-91 can be connected to the master MSB Board to provide temperatures greater than 140°F for all the water heaters in the MSB system.



In the diagram above, 25 water heaters are electronically connected. Each bank of 5 is controlled by an MSB-M control board. These boards are connected to each other with MSB-C2 cables. One MSB-M is the controlling or master MSB-M for the entire system.

- (M) MSB-M control board
- (A) Connector cable A (part of MSB-M kit; replace with MSB-C3 cables for V Series)
- (C1) MSB-C1 cable for connecting water heaters within a banked system (up to 5), (use MSB-C3 cables for V Series)
- (C2) MSB-C2 cable for connecting MSB-M control boards (up to 5)

MSB Kits for Connecting Multiple Water Heaters

MSB Kits - Parts Needed

Use the table to determine the type and number of kits necessary for your system.

Up to 5 water heaters can be connected together using the MSB-M and MSB-C1 kits. When over 5 water heaters are connected together, MSB-M control boards are connected using MSB-C2 kits.

If multiple MSB-M control boards are used, then at least three water heaters should be connected to each MSB-M. Example: With 7 water heaters, one MSB-M should control 4 water heaters and the other MSB-M should control 3 water heaters.

Detailed installation instructions are provided with each of the kits.

No. of water heaters	Number of Kits Required: No. of water heaters for each bank	MSB-M	MSB-C1 See note *	MSB-C2	MSB-C3 See note *
2**	2	1	NA	NA	1
3	3	1	1	NA	2
4	4	1	2	NA	3
5	5	1	3	NA	4
6	3/3	2	2	1	4
7	4/3	2	3	1	5
8	4/4	2	4	1	6
9	5/4	2	5	1	7
10	5/5	2	6	1	8
11	4/4/3	3	5	2	8
12	4/4/4	3	6	2	9
13	5/4/4	3	7	2	10
14	5/5/4	3	8	2	11
15	5/5/5	3	9	2	12
16	4/4/4/4	4	8	3	12
17	5/4/4/4	4	9	3	13
18	5/5/4/4	4	10	3	14
19	5/5/5/4	4	11	3	15
20	5/5/5/5	4	12	3	16
21	5/4/4/4/4	5	11	4	16
22	5/5/4/4/4	5	12	4	17
23	5/5/5/4/4	5	13	4	18
24	5/5/5/5/4	5	14	4	19
25	5/5/5/5/5	5	15	4	20

* VA, VB, and KA (Condensing) models use the MSB-M, MSB-C1, and MSB-C2 cables

V Series models use the MSB-M, MSB-C2, and MSB-C3 cables. V Series models must use the MSB-C3 cables instead of the MSB-C1 cables and the Cable A in the MSB-M.

** The Rinnai EZConnect™ is less expensive and is specifically designed for connecting 2 water heaters. Applicable models are VA, VB, KA, and V3237.

MSB-M kit includes
- Control board
- Cable A (18 in, 450 mm)
- Cable B (9.8 ft, 3 m)
- Brackets, ties, and screws
- Instructions

MSB-C1 kit includes
- Cable B (9.8 ft, 3 m)
- Brackets, ties, and screws
- Instructions

MSB-C2 kit includes
- MSB Cable (13.1 ft, 4 m)
- Terminal connectors
- Instructions

MSB-C3 kit includes
- C3 Cable (9.8 ft, 3 m)
- Instructions

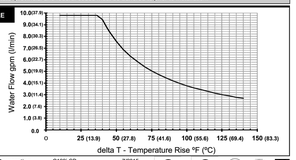
Rinnai

C199i (KBD3237FFUDC)

Type of Appliance	Commercial Condensing Tankless Water Heater, Commercial Energy Star
Rinnai model number	REU-KBD3237FFUDC-US
Operation / Installation	Forced combustion; indoor only;
Minimum/Maximum Gas Rate (Input)	15,200 - 199,000 BTU/h (4.5-58.3 kWh)
Electrical	Appliance: AC 120 Volts - 60 Hz Temperature Controller: DC 12 Volts
Electrical Consumption	Normal: 75 w Standby: 2 w Anti-frost protection: 146 w
Amperage	Max: 4A
Ignition System	Direct electronic ignition
Hot Water Capacity	Minimum flow rate: 0.26 GPM (1 l/min) Minimum activation flow rate: 0.4 GPM (1.5 l/min) Maximum flow rate: 9.8 GPM (37.1 l/min)
Temperature	Factory Default Range - 98°-120° F (37°- 49°C) Optional Range - 98° - 185° F (37°- 85°C)
Temperature (without remote)	120° F 49°C) (factory default) or 140° F (60°C)
Approved Gas Types	Natural or Propane (ensure unit matches gas type)
Thermal Efficiency	Natural Gas: 96% Propane: 96%
Service Connections	Gas supply: 3/4 inch (19mm) MNPT Cold water inlet: 3/4 inch (19mm) MNPT Hot water outlet: 3/4 inch (19mm) MNPT
Isolation & Pressure Relief Valves Included	Isolation Valves are certified to NSF/ANSI 61 for potable water
Water Flow Control	Water flow sensor, electronic water control and by-pass control
Minimum/Maximum Water Supply Pressure	20 - 150 PSI (138-1035 KPa) (recommended 60 - 80 PSI (414 - 552 KPa) for optimal performance)

Rinnai is continually updating and improving products; therefore, specifications are subject to change without prior notice. Local, state, provincial and federal codes must be adhered to prior to installation.

FLOW TABLE



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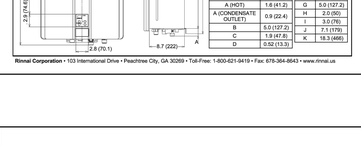
Low Lead Content NSF/ANSI 372 SANITATION

Rinnai

C199i (KBD3237FFUDC)

Controller	MC-91-2US (included)
Controller Cable	Non-polarized two-core cable, minimum 22 AWG
Safety Devices	• Flame failure - Flame Rod • Boiling protection • Combustion fan rpm check • Over current - glass fuse • Remaining flame (OHS) • Thermal fuse • Automatic frost protection
Clearances from Combustibles * 24 inches (610mm) required for service	• Top of heater - 6 inches (152mm) • Front of heater - 6 inches *(152mm) • Sides of heater - 2 inches (51mm) • Back of heater - 0 inches • Bottom of heater - 12 inches (305mm) • From vent pipe - 0 inches
Clearances from Non-combustibles * 24 inches (610mm) required for service	• Top of heater - 2 inches (51mm) • Front of heater - 6 inches *(152.mm) • Sides of heater - 1/2 inches (13mm) • Back of heater - 0 inches • Bottom of heater - 12 inches (305mm) • From vent pipe - 0 inches
Min. / Max. Gas Supply Pressure	Natural Gas: min 4" W.C. (2.5mbar) max 10.5" W.C. (26.1mbar) Propane Gas: min 8" W.C. (20mbar) max 13.5" W.C. (33.6mbar)
Manifold Gas Pressure (inches W.C.)	Natural Gas: high fire 3.0" W.C. (7.5mbar) low fire 0.42" W.C. (1.1mbar) Propane Gas: high fire 3.5" W.C. (8.7mbar) low fire 0.47" W.C. (1.2mbar)
NOx	Complies with South Coast Air Quality Management District 14 ng/J or 20 ppm NOx emission levels
Venting	-Ubbink Polypropylene Concentric Vent -Twin Pipe PVC/CPVC (3" and 4" configurations) -Centrotherm 3" Polypropylene (with Centrotherm Twin Pipe Adapter); -Common Vent Solutions -Room Air (Room air can be used only in commercial common vent applications where the exhaust terminates vertically) *See installation and operation manual for more details.*
Limited Warranty	Heat exchanger: 5years*, All other parts: 5 years*; Labor: 1 year; (* 3 years if used as a circulating water heater within a circulation loop, when the water heater is in series with a circulation system and all circulating water flows through the water heater, and where an aquastat / thermostat, timer, or an on-demand recirculation system is not incorporated.) Refer to the manual for complete warranty information.

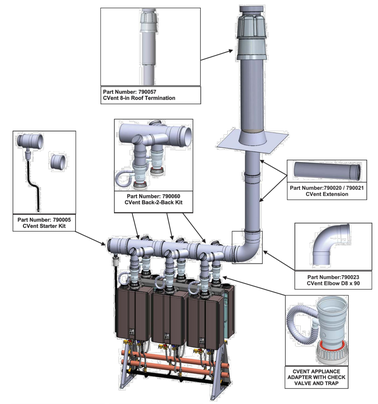
DIMENSIONS **WEIGHT: 61.7 lb (28 kg)**



DIM	Inches (mm)	DIM	Inches (mm)
A (GAS)	1.6 (40.2)	E	2.2 (56.3)
A (COLD)	2.0 (50.2)	F	2.3 (58.3)
A (HOT)	1.6 (41.2)	G	5.0 (127.2)
A (CONDENSATE OUTLET)	0.9 (22.4)	H	2.0 (50)
		I	3.0 (76)
B	5.0 (127.2)	J	7.1 (179)
C	1.9 (47.8)	K	18.3 (465)
D	0.52 (13.3)		

Rinnai CVent

Sample Vertical Termination Assembly-Room Air (C199i Only)



Complete Header Kit (B-to-B):
U.S.-CVBBB6USRA
Canada-CVBBB6CARA

Complete Header Kit (In-line):
U.S.-CVBIL3USRA
Canada-CVBIL3CARA

Vent termination per ANSI Z223.1/NFPA 54. For clearances not specified in ANSI Z223.1/NFPA 54, clearances are in accordance with local installation codes and the requirements of the gas supplier.

A9 Vertical Termination Assembly

⚠ WARNING

Improper installation of vent system and components, or failure to follow all installation instructions, can result in property damage or serious injury.

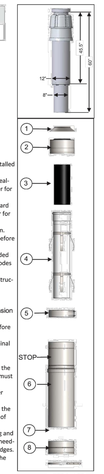
Item	Description	Material	Qty.
1	Storm Collar (Blr)	Stainless	1
2	Terminal Cap	Stainless	1
3	8" Exhaust Extension (Black)	Plastic	1
4	8" Inner Exhaust Assembly (With (2) 8" CVent Distancers)	Plastic	1
5	Terminal Clamp Ring	Stainless	1
6	Terminal Outer Shell	Stainless	1
7	Terminal Base	Stainless	1
8	Termination Clamp	Galvanized	1

General Requirements ,Remarks and Tools:

- Confirm that the box contents match the above Parts list.
- Use suitable tools, beware components might have sharp edges
- Assure that the roof is suitable to support the load of the terminal, and that the flashing is installed in the roof according to local codes.
- (Flat roof) The flashing is made of galvanized steel and can be fixed to the roof with suitable sealing material, please refer to the installation instructions of the specific roofer material supplier for further instructions.
- (Pitched roof) The moldable flashing can be installed in a 3/12 to 12/12 roof pitch using standard fixing devices, please refer to the installation instructions of the specific roof material supplier for additional info and instructions
- The vertical termination should be last component installed in the CVent common vent system. The remaining components in vent system must be appropriately supported and assembled before installation of the termination
- The termination must be securely fastened/strapped to the building structure with the provided (Termination Clamp) beneath the roof flashing. The roof flashing must be installed per local codes and/or the installation instructions of the roof material manufacturer.
- The termination must be located on the roof per the appliance manufacturers installation instructions and in accordance with local codes.

Assembly of terminal

1. Lubricate seal in item 3 (8" Inner Exhaust Assembly) and slide in item 2 (8" Exhaust Extension (Black)) . Confirm full engagement before proceeding.
2. Assemble item 1 (Terminal Cap) to item 5 (Terminal Outer Shell). Confirm full engagement before proceeding.
3. Position item 4 (Terminal Clamp Ring) over the joint between items 1 &5. With the terminal clamp ring in place tighten the clamps with a flathead screwdriver. Do not over-tighten the clamps as this could cause damage of the termination components.
4. Insert the items 2&3 assembled in step 1 into the outer shell assembly (items 1,4 & 5). Widen the stainless steel spacers as needed, to ensure the centering of the vent pipe. The black portion must protrude minimum 4 inch over the Terminal Cap.
5. Assemble the Storm Collar above the Terminal Cap and below the exhaust outlet. Use weather proof sealant between the storm collar and black vent extension.
6. (Pitched Roof Installation) slide storm collar [provided with roof flashing] over the terminal to the stop. With a flathead screwdriver, firmly secure the storm collar to the termination shell. Use of weather proof sealant may be applied at this position.
7. Lubricate the mating seal below the roof. Insert the termination into the roof flashing opening and assemble the termination assembly into the socket end of the vent system below the roof. If needed, the 8"transparent vent pipe can be shortened using a fine tooth saw. Always deburr the edges.
8. Confirm the termination is in the vertical position then install item 7 (Termination Clamp) to the structure beneath the roof flashing.



CVent Starter Kit
790005 / 791008PPS*
8-Inch For Back-to-Back or In-line Combustion Air & Exhaust

NO	QTY	DESCRIPTION	PPTL PART #'S	*PPS PART #'S
1	1	CVENT ENDPIECE (EXHAUST) W/ CLEANOUT & CONDENSATE DRAIN (32mm)	790042	NA
2	1	CVENT COMB AIR ENDPIECE D8	780046	NA
3	1	CVENT CONDENSATE TRAP (32mm Connection)	790048	NA
4	1	CVENT DRAIN HOSE AND CLAMPS	790049	NA
6	1	UBBINK INSTALLATION INSTRUCTION	NA	NA
7	1	CENTROCERIN LUBRICANT	NA	NA

*PPS kits and components are certified for use in Canada

CVent In-line Kit
790007 / 791009PPS*
8-Inch Header Kit For In-line Combustion Air & Exhaust

NO	QTY	DESCRIPTION	PPTL PART #'S	*PPS PART #'S
1	1	CVENT COLLECTOR, 1 CONNECTION, D8 X L20 X D4 (Exhaust)	790040	NA
2	1	CVENT ELBOW D4 X 87° WITH CLEANOUT	790039	NA
3	1	CVENT EXTENSION, D4 X L18	790035	NA
4	1	CVENT APPLIANCE ADAPTER WITH CHECK VALVE AND HOSE TRAP	790038	NA
5	1	CVENT COMB. AIR COLLECTOR, 1 CONNECTION, D8 X L20 X D3	790044	NA
6	1	CVENT COMB AIR FLEX FITTING, D3	780050	NA
7	1	CENTROCERIN LUBRICANT	NA	NA

*PPS kits and components are certified for use in Canada

CVent Back-2-Back Kit
790008 / 791010PPS
8-Inch Header Kit For Back-to-Back Combustion Air & Exhaust

NO	QTY	DESCRIPTION	PPTL PART #'S	*PPS PART #'S
1	1	CVENT COLLECTOR, 2 CONNECTION, D8 X L20	790041	NA
2	2	CVENT ELBOW D4 X 87° WITH CLEANOUT	790039	NA
3	2	CVENT EXTENSION, D4 X L18	790035	NA
4	2	CVENT APPLIANCE ADAPTER WITH CHECK VALVE AND	790038	NA
5	1	CVENT COMB. AIR COLLECTOR, 2 CONNECTION,	780045	NA
6	2	CVENT COMB. AIR FLEX FITTING, D3	780050	NA
7	1	CENTROCERIN LUBRICANT	NA	NA

*PPS kits and components are certified for use in Canada

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

WATER HEATER ACCESSORIES DETAILS

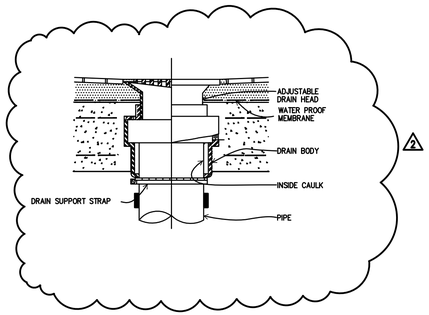
◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

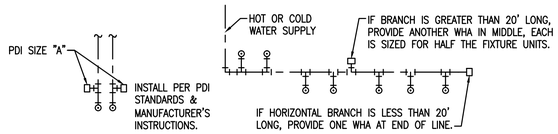
◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: P3.2



FLOOR DRAIN | 7



SINGLE FIXTURES

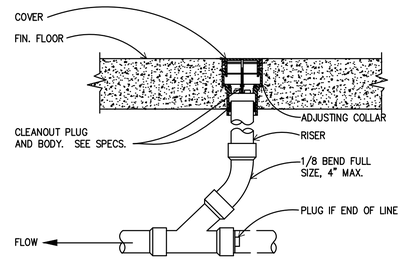
PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	½"	1–11
B	¾"	12–32
C	1"	33–60
D	1¼"	61–113
E	1½"	114–154
F	2"	154–330

MULTIPLE FIXTURES

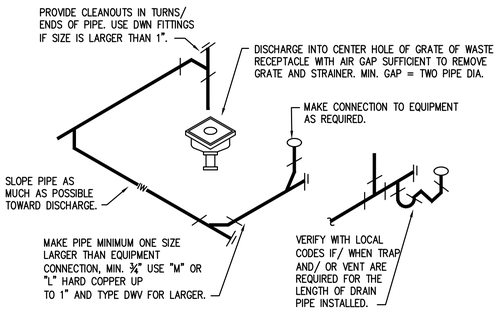
FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	5	---
TANK WATER CLOSET	2.5	---
URINAL	4	---
LAVATORY	.75	.75
SINK	1.5	1.5
JANITOR'S SINK	2.5	2.5
SHOWER/BATHTUB	1.5	1.5

PLUMBING CONTRACTOR TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVELENT WITH PISTON & O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 & ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN-LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.

WATER HAMMER ARRESTERS | 4

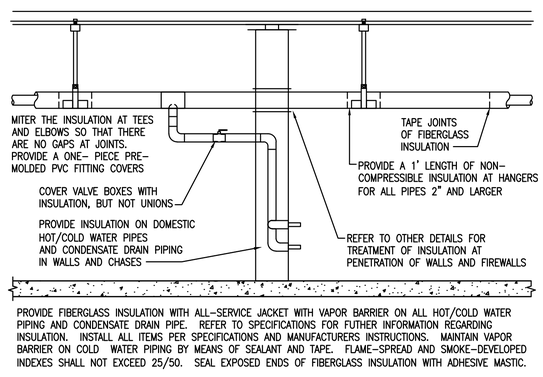


FLOOR CLEANOUT | 1



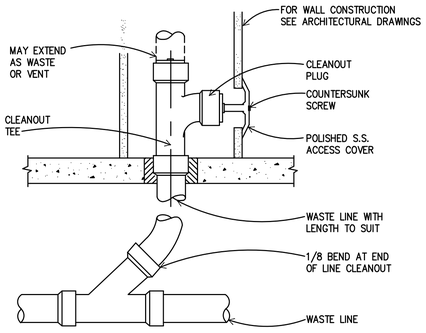
ROUTE PIPE INCONSPICUOUSLY AND UNOBTRUSIVELY. HANG PIPE AS REQUIRED. DO NOT INSULATE INDIRECT DRAIN PIPE WHEN INSTALLED EXPOSED IN FOOD SERVICE FACILITY. REFER TO LOCAL CODES FOR FURTHER INFORMATION.

INDIRECT WASTE DRAIN DETAIL | 8

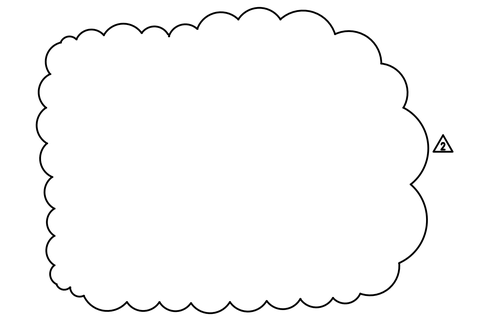


PROVIDE FIBERGLASS INSULATION WITH ALL-SERVICE JACKET WITH VAPOR BARRIER ON ALL HOT/COLD WATER PIPING AND CONDENSATE DRAIN PIPE. REFER TO SPECIFICATIONS FOR FUTHER INFORMATION REGARDING INSULATION. INSTALL ALL ITEMS PER SPECIFICATIONS AND MANUFACTURERS INSTRUCTIONS. MAINTAIN VAPOR BARRIER ON COLD WATER PIPING BY MEANS OF SEALANT AND TAPE. FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50. SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC.

PIPE INSULATION | 5



WALL CLEANOUT | 2



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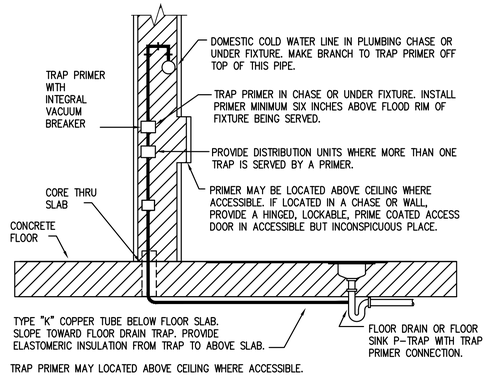
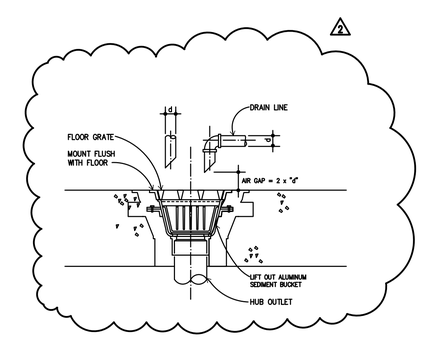


TRAP PRIMER MAY LOCATED ABOVE CEILING WHERE ACCESSIBLE.

TRAP PRIMER DETAIL | 6



FLOOR SINK | 3

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

PLUMBING DETAILS

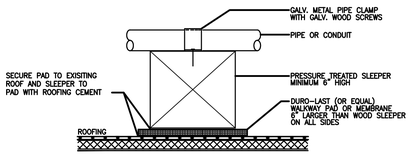
◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

◦ JOB: 2015.2801

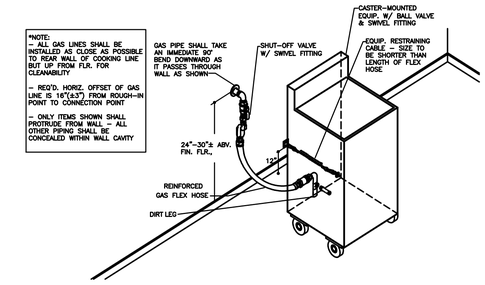
◦ DATE: 06/17/16

◦ SHEET: P3.3

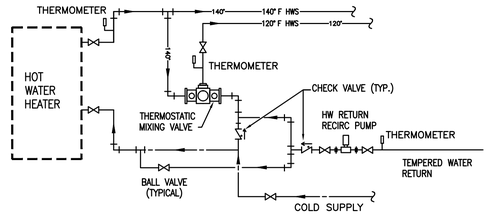


NOTE: SPACING SHALL BE MAXIMUM OF 5'-0" ON CENTERS FOR PIPES 3" AND SMALLER.

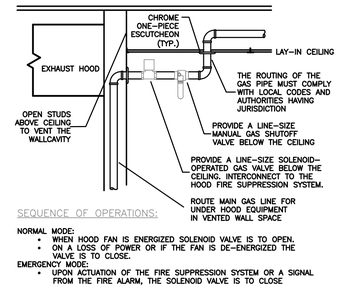
PIPE SUPPORT ON ROOF | 10



GAS PIPE CONNECTION AT COOKLINE | 7



THERMOSTATIC MIXING VALVE | 4

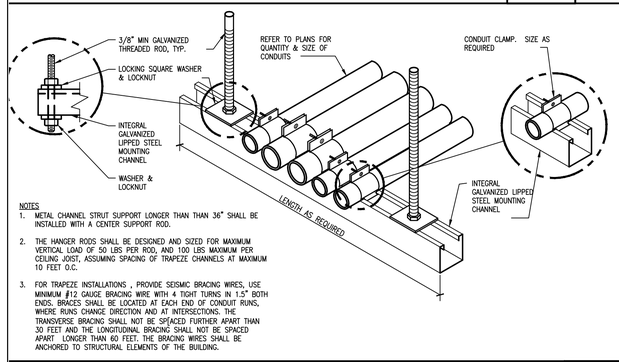


SEQUENCE OF OPERATIONS:

NORMAL MODE:
- WHEN HOOD FAN IS ENERGIZED SOLENOID VALVE IS TO OPEN.
- ON A LOSS OF POWER OR IF THE FAN IS DE–ENERGIZED THE VALVE IS TO CLOSE.

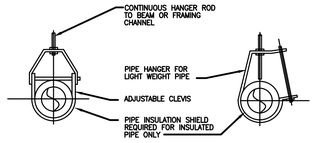
EMERGENCY MODE:
- UPON ACTUATION OF THE FIRE SUPPRESSION SYSTEM OR A SIGNAL FROM THE FIRE ALARM, THE SOLENOID VALVE IS TO CLOSE

KITCHEN GAS SHUTOFF VALVE | 1

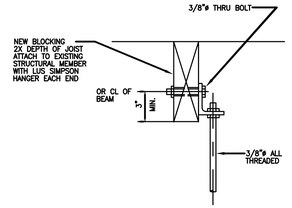


NOTES
1. METAL CHANNEL STRUT SUPPORT LONGER THAN THAN 36" SHALL BE INSTALLED WITH A CENTER SUPPORT ROD.
2. THE HANGER RODS SHALL BE DESIGNED AND SIZED FOR MAXIMUM VERTICAL LOAD OF 50 LBS PER ROD, AND 100 LBS MAXIMUM PER CEILING JOIST, ASSUMING SPACING OF TRAPEZE CHANNELS AT MAXIMUM 10 FEET O.C.
3. FOR TRAPEZE INSTALLATIONS , PROVIDE SEISMIC BRACING WIRES, USE MINIMUM #12 GAUGE BRACING WIRE WITH 4 TIGHT TURNS IN 1.5" BOTH ENDS. BRACES SHALL BE LOCATED AT EACH END OF CONDUIT RUNS, WHERE RUNS CHANGE DIRECTION AND AT INTERSECTIONS. THE TRANSVERSE BRACING SHALL NOT BE SPACED FURTHER APART THAN 30 FEET AND THE LONGITUDINAL BRACING SHALL NOT BE SPACED APART LONGER THAN 60 FEET. THE BRACING WIRES SHALL BE ANCHORED TO STRUCTURAL ELEMENTS OF THE BUILDING.

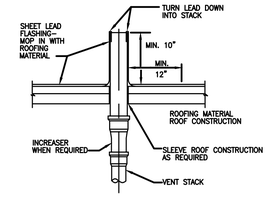
PIPING AND CONDUIT TRAPEZE HANGER DETAIL | 11



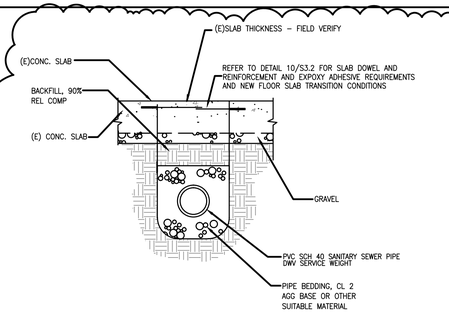
SINGLE PIPE HANGER | 8



HANGER ATTACHMENT | 5



VENT THRU ROOF DETAIL | 2



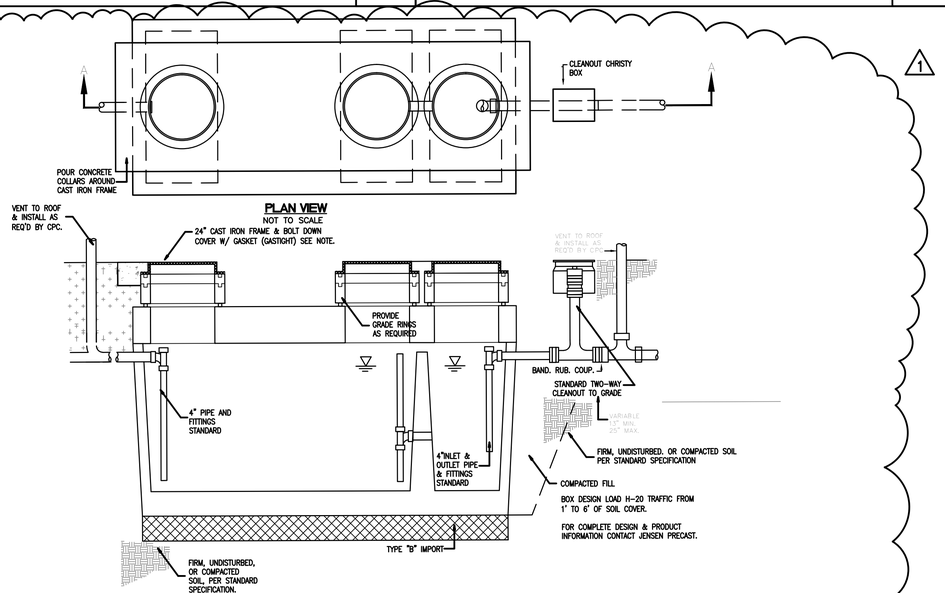
NOTE: SUSPEND THE NEW UNDERSLAB SEWER LINE PIPING FROM EXISTING GRADE BEAM OR NEW SLAB ASSEMBLY WITH STAINLESS STEEL THREADED RODS BOLTED OR SECURED TO CONCRETE, SPACED AT 8 FEET O.C. FOR MULTIPLE UNDERSLAB PARALLEL SEWER LINES, THE COPNTRACTOR SHALL UTILIZE SAME TRENCH WHERE FEASIBLE.

NOTE: CONCRETE THICKNESS, MIXTURE DESIGN, REBAR SIZE AND SPACING, VAPOR BARRIER, SAND AND ROCK SHALL MATCH DEPTH AND PLACEMENT PER EXISTING CONDITION IN FIELD.

(E) CONDITIONS OR CITY STANDARDS SHALL SUPERCEDE THIS DETAIL. (E) CONDITIONS SHALL TAKE PRECEDENCE.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR SAW CUTTING EXISTING CONCRETE SLABS TO INCLUDE AN OVER CUT BEYOND THAT WIDTH REQUIRED FOR THE TRENCH SO AS NOT TO AFFECT THE INTEGRITY OF THE EXISTING SUBSURFACE CONDITIONS AND VAPOR BARRIER MEMBRANE. THE SAW CUTTING SHALL BE PERFORMED IN A WAY TO MAINTAIN THE INTEGRITY OF THE EXISTING VAPOR BARRIER IN ORDER TO ALLOW A NEW CONSISTENT AND COMPLETE VAPOR BARRIER PATCH OVER THE TRENCH. THE NEW VAPOR BARRIER PATCH SHALL BE INSTALLED AND ATTACHED TO EXISTING VAPOR BARRIER PER MANUFACTURER SPECIFICATIONS AND RECOMMENDATIONS. THE EXISTING VAPOR BARRIER PATCH SHALL BE FREE OF DEFECTS, PUNCTURES, PENETRATIONS OR TEARS THAT WOULD VOID TO PERFORMANCE INTEGRITY OF THE VAPOR BARRIER IN PART OR AS A COMPLETE SYSTEM.

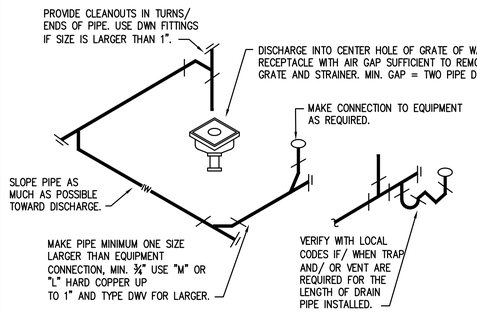
UNDERSLAB SEWER & SLAB DOWEL DETAIL | 9



NOTE

1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
2. CIRCULAR LIDS SHALL BE SOUTH BAY BOUNDRY 1900–BD OR APPROVED EQUAL., WITH RAISED "S" OR "SANITARY SEWER".
3. TANK TO BE PLACED ON BACKFILL PER CIVIL ENGINEERS PLANS.
4. HEIGHT OF TANK ABOVE FITTINGS IS VARIABLE. 6 OR 12 INCHES SECTIONS MAY BE ADDED TO REACH THE REQUIRE FINISHED GRADE, MORTAR AND BAND BOTH SIDES IN FIELD.
5. ALL CONCRETE JOINTS SHALL BE CLEANED. WETTED AND MORTARED PRIOR TO SETTING NEXT SECTION. THE JOINTS SHALL BE PACKED, TROWELED AND BANDED SMOOTH ON BOTH SIDES OF THE BOX.
6. BOLT EACH OF THE THREE (3) COMPARTMENT COVERS DOWN TO FRAME WITH NO LESS THAN TWO (2) ⅜" HEX HEAD STEEL BOLTS.
7. UNLESS OTHERWISE APPROVED BY THE CITY OF JURISDICTION, A VENT WILL BE REQUIRED ON THE INLET OF THE INTERCEPTOR WHEN ITS DISTANCE FROM THE VENT SYSTEM WITHIN THE BUILDING IS GREATER THAN 10 FEET. VENT PIPES ON THE INLET SIDE AND THE OUTLET SIDE MAY BE INSTALLED SEPARATELY OR COMBINED IN CONFORMANCE WITH THE CPC 2013 CODE.
8. STRUCTURE SHALL BE MANUFACTURED BY JENSEN PRECAST OR APPROVED EQUAL.
9. PLUMBING THROUGH THE INTERCEPTOR SHALL MATCH LATERAL SIZE.
10. SEE JENSEN PRECAST OR APPROVED EQUAL. FOR DIMENSIONS OR EQUIVALENT TANK WITH PRIOR APPROVAL OF THE ENGINEER.

750 GALLON GREASE INTERCEPTOR | 6



ROUTE PIPE INCONSPICUOUSLY AND UNOBTRUSIVELY. HANG PIPE AS REQUIRED. DO NOT INSULATE INDIRECT DRAIN PIPE WHEN INSTALLED EXPOSED IN FOOD SERVICE FACILITY. REFER TO LOCAL CODES FOR FURTHER INFORMATION.

INDIRECT WASTE DRAIN DETAIL | 3

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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

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

PLUMBING DETAILS

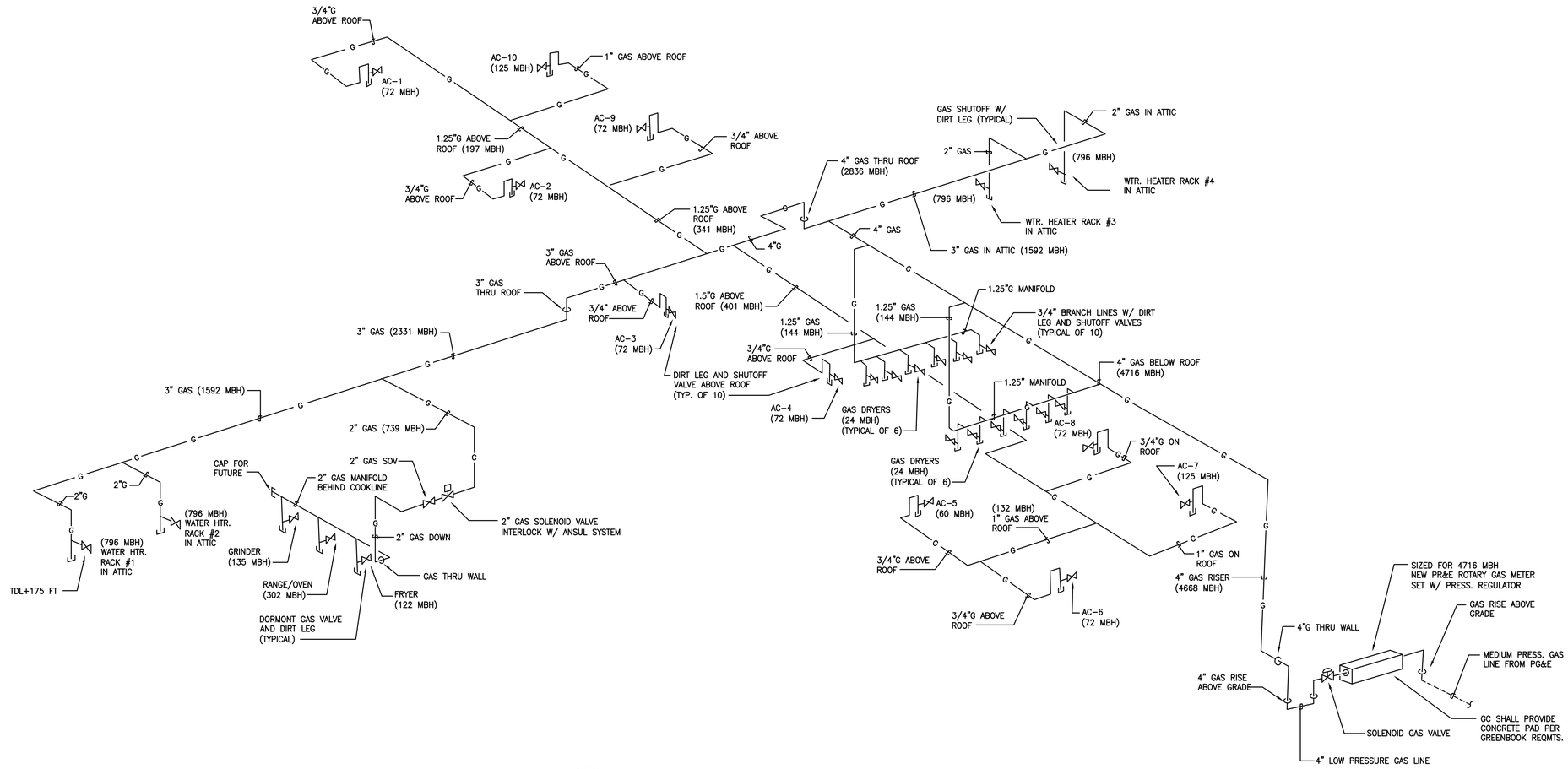
◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLDG SUBMITTAL 1
2	8.15.16	PLAN CHECK 1 ADDENDUM 3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: P3.4



1 GAS RISER DIAGRAM

N.T.S.

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

GAS RISER DIAGRAM

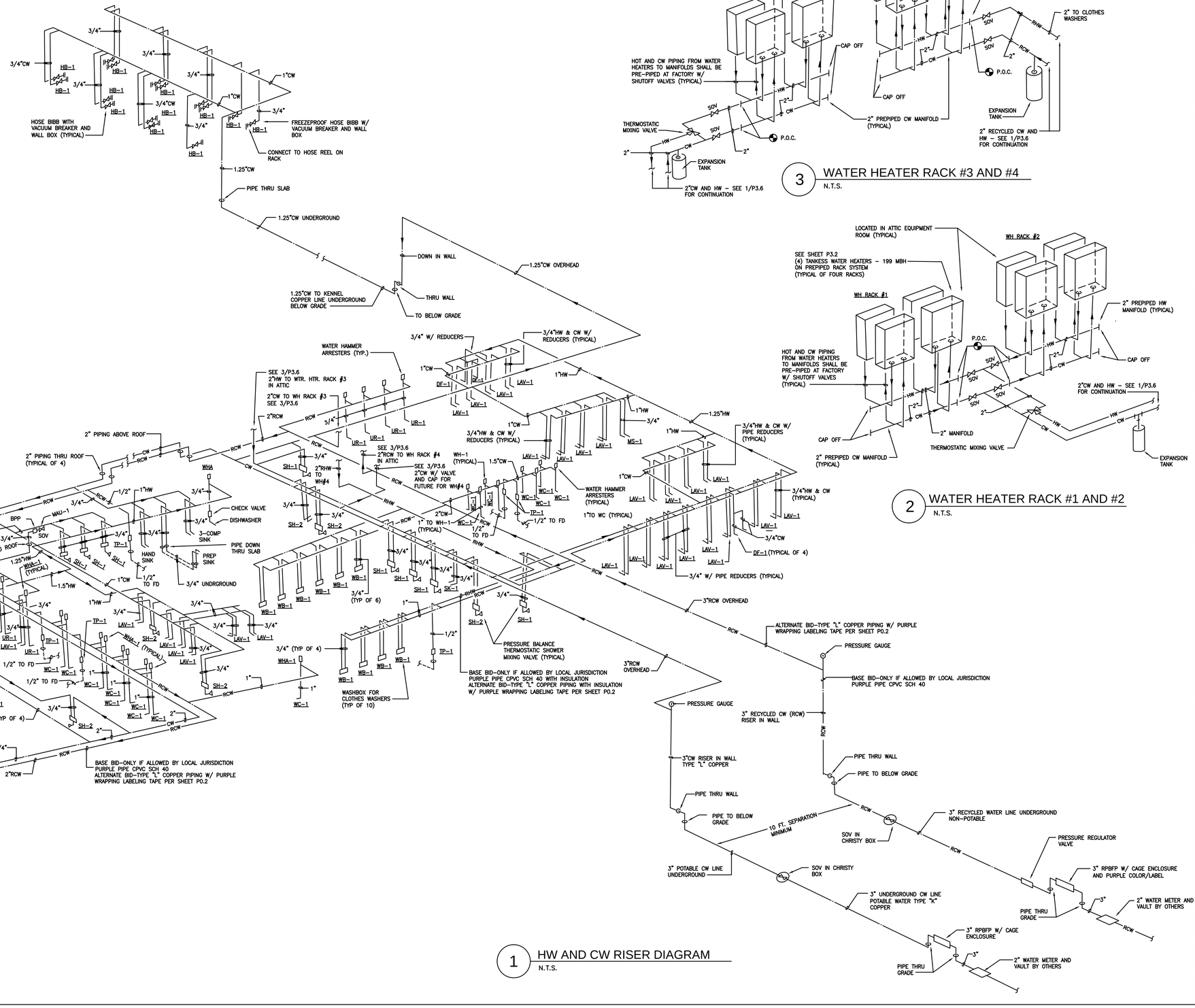
◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: P3.5 2



1 HW AND CW RISER DIAGRAM
N.T.S.

3 WATER HEATER RACK #3 AND #4
N.T.S.

2 WATER HEATER RACK #1 AND #2
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

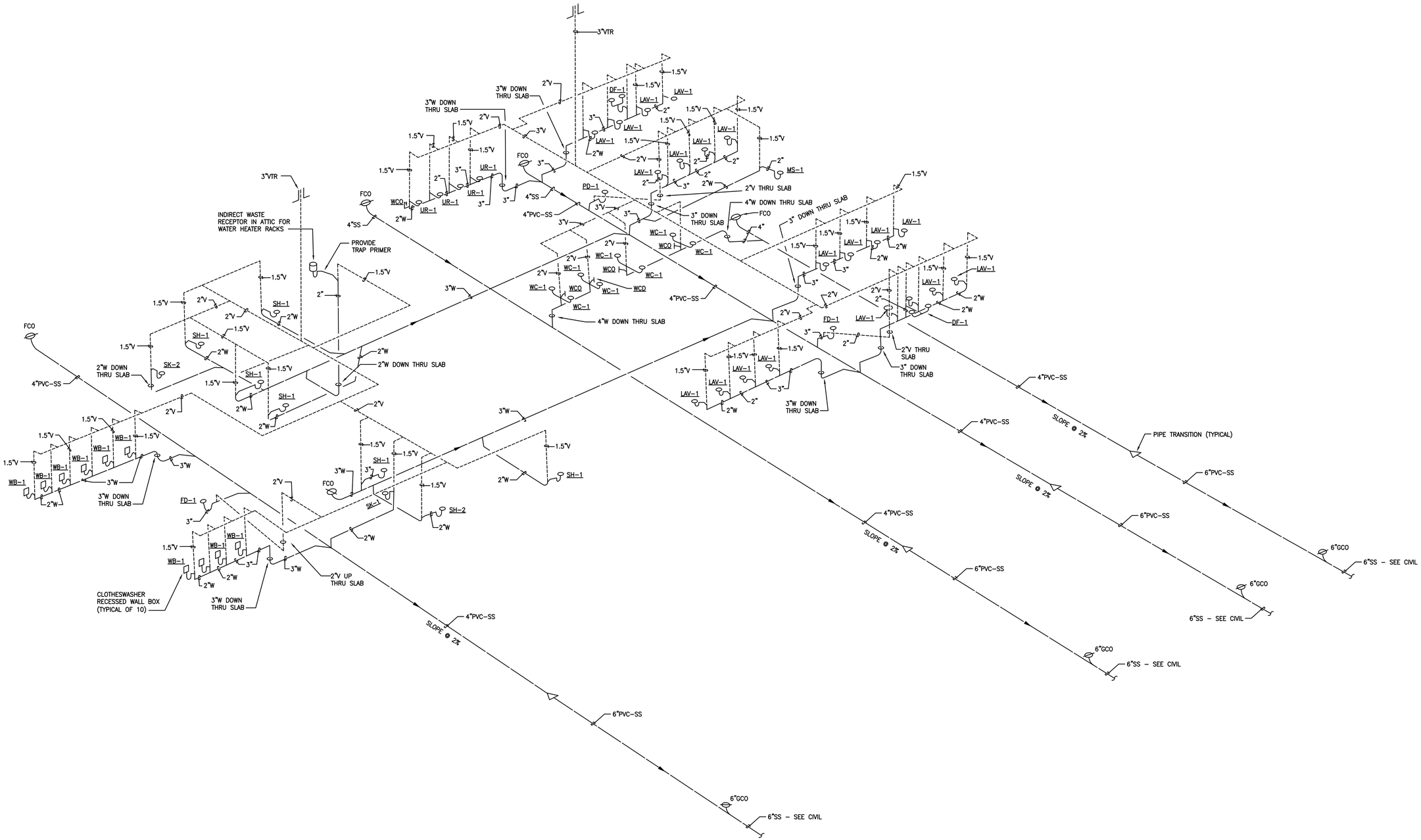
◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: P3.6 2



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

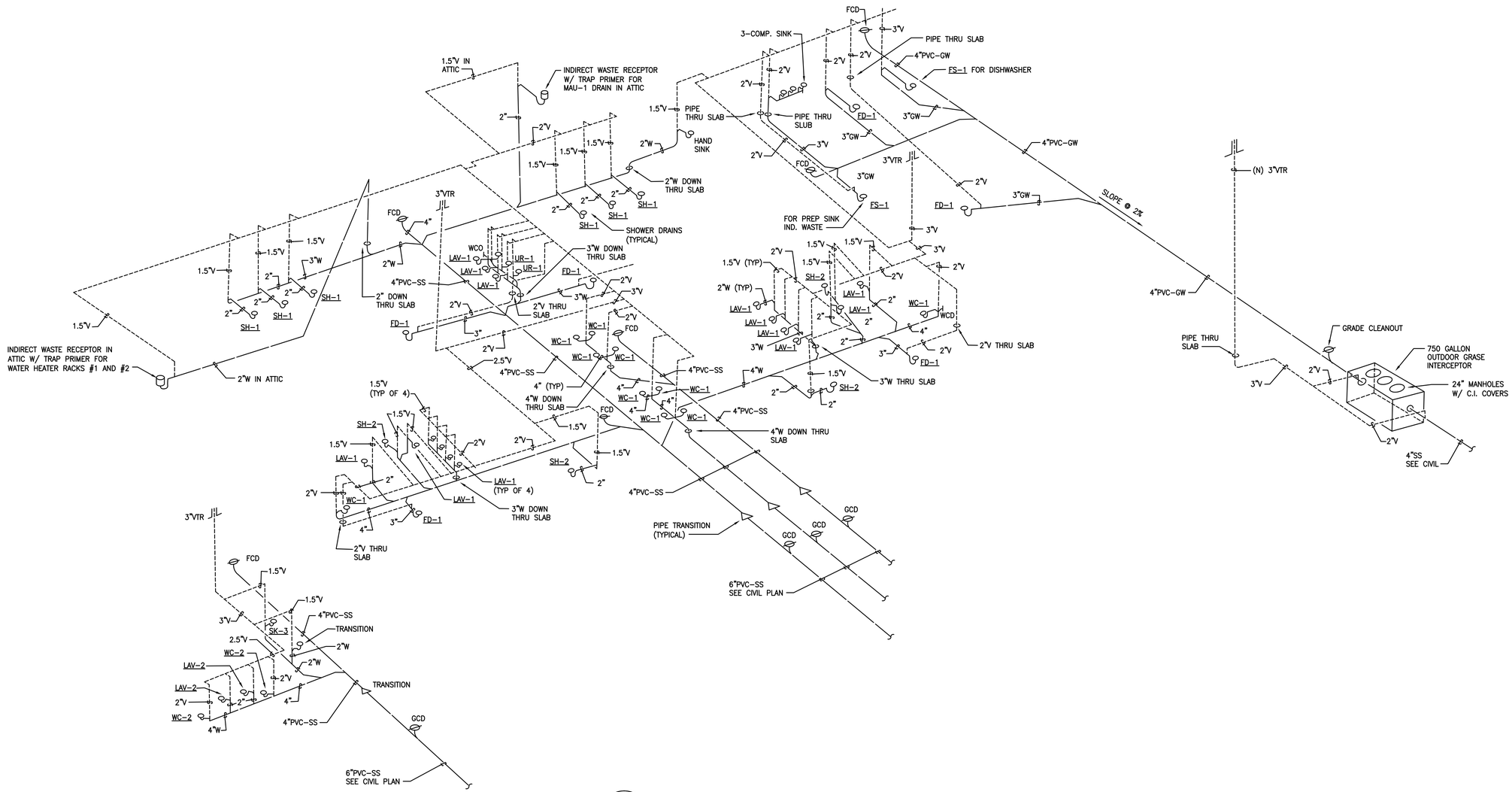
◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: P3.7 2



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

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	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: P3.8 2

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 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.

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

SYMBOL	DESCRIPTION
SIGNAL	
▷	TELEPHONE OUTLET: +18" AFF U.O.N.
▷	DATA OUTLET: +18" AFF U.O.N. (SINGLE, DOUBLE)
▷	TELEPHONE/DATA OUTLETS IN SAME OUTLET BOX
TV	TELEVISION OUTLET: +18" AFF U.O.N.
DS	MAGNETIC DOOR SWITCH
SINGLE LINE DIAGRAM	
M	METER SOCKET
M	TRANSFORMER RATED METER SOCKET AND CT
N	NEUTRAL BUS
G	GROUND BUS
	CIRCUIT BREAKER
	FUSIBLE SWITCH
FIRE ALARM	
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 DR	DUCT SMOKE DETECTOR–S.M.D. FOR EXACT LOCATION
SD	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

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)

SYMBOL	DESCRIPTION
EQUIPMENT	
	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
T	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
FD	COMBINATION STARTER/DISCONNECT, FUSED. SIZE AND TYPE AS REQUIRED OR NOTED
	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	
	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, @ UNIT UNO
$P	SINGLE POLE TOGGLE WITH PILOT LIGHT
OS / $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
PE	DAYLIT LIGHT PHOTOSENSOR WITH POWER PACK AND BOX

SYMBOL	DESCRIPTION
OUTLETS	
	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
GFCI	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
	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	
	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
	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

E0.1A	LEGEND, NOTES AND GENERAL NOTES
E0.1B	LCP AND LIGHTING FIXTURE SCHEDULE
E2.0	LIGHTING CONTROLS
E2.1	POWER AND SIGNAL PLAN
E2.1D	ELECTRICAL DEMOLITION PLAN
E2.2	LIGHTING PLAN
E3.1	SINGLE LINE DIAGRAM
E3.2	PANEL SCHEDULES
E4.1	LTG TITLE 24 CALCULATIONS
E4.2	LTG TITLE 24 CALCULATIONS
E4.3	LTG TITLE 24 CALCULATIONS
E4.4	LTG TITLE 24 CALCULATIONS
E4.5	LTG TITLE 24 CALCULATIONS
SE1	ELECTRICAL SITE PLAN NOTES, DETAIL
SE2	ELECTRICAL SITE PLAN
SE3	ELECTRICAL SITE PHOTOMETRIC PLAN

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	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

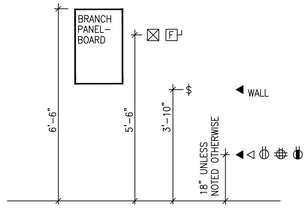
◦ JOB: 2015.2801

◦ 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.



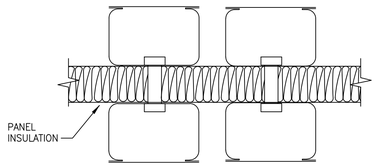
4 STANDARD MOUNTING HEIGHTS
N.T.S.
RE: ALL ELECTRICAL DRAWINGS

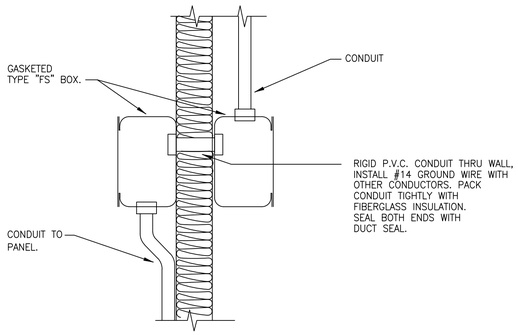
3 FIXTURE SCHEDULE NOTES
RE: E0.1-3

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

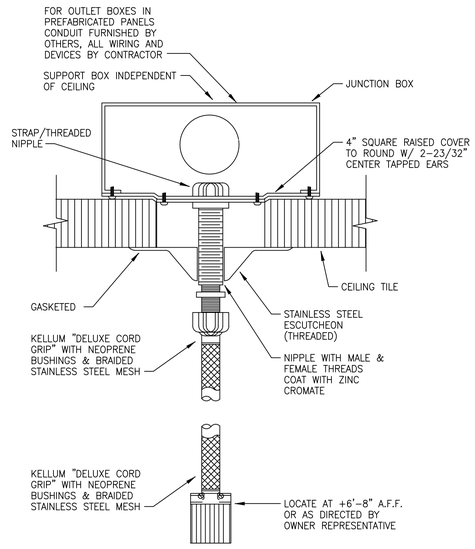
2 FIXTURE SCHEDULE
RE: E2.2

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-LD4-1LO-35-UNV-0-EDD1	26.2w LED	26.2w	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
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

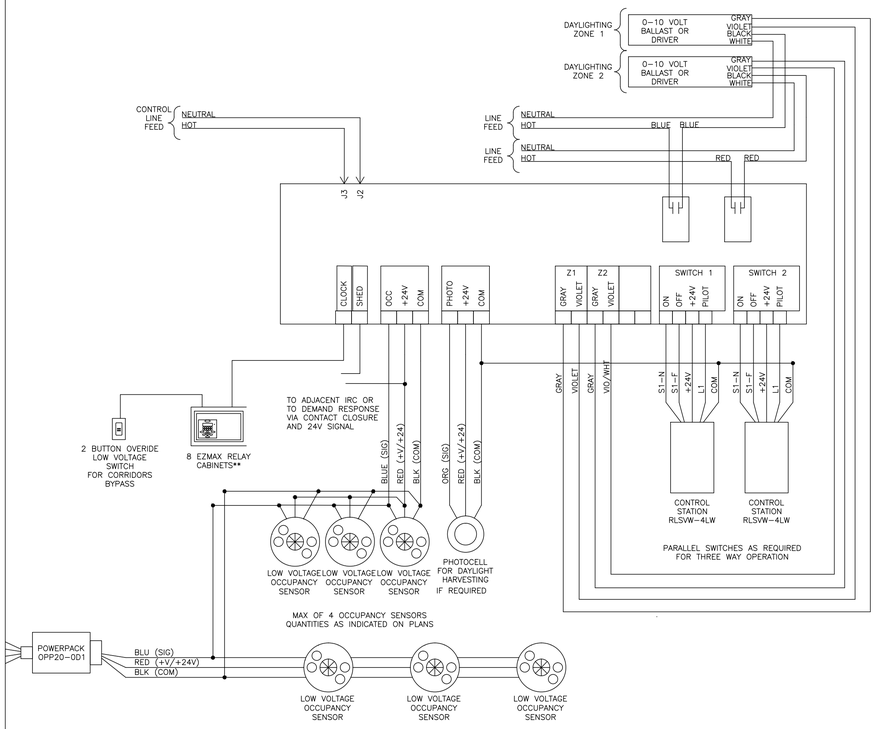
◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

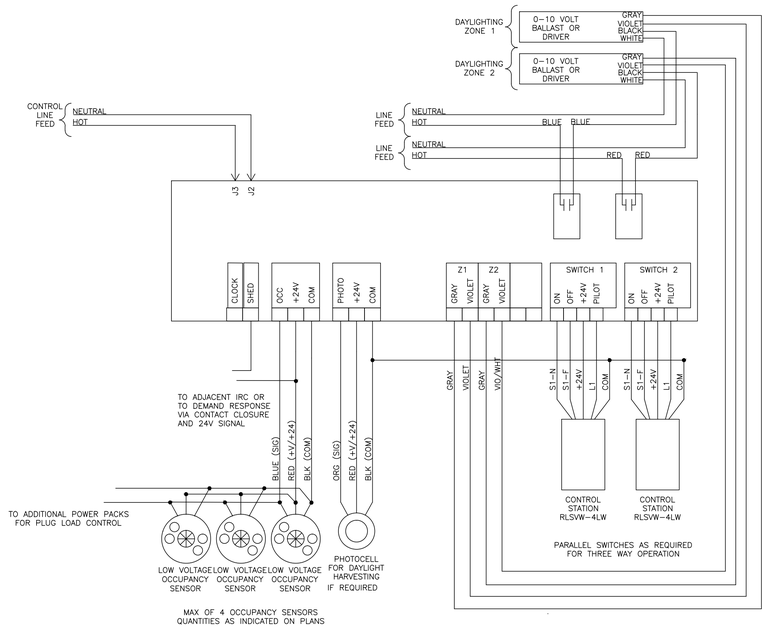
◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: E0.1B



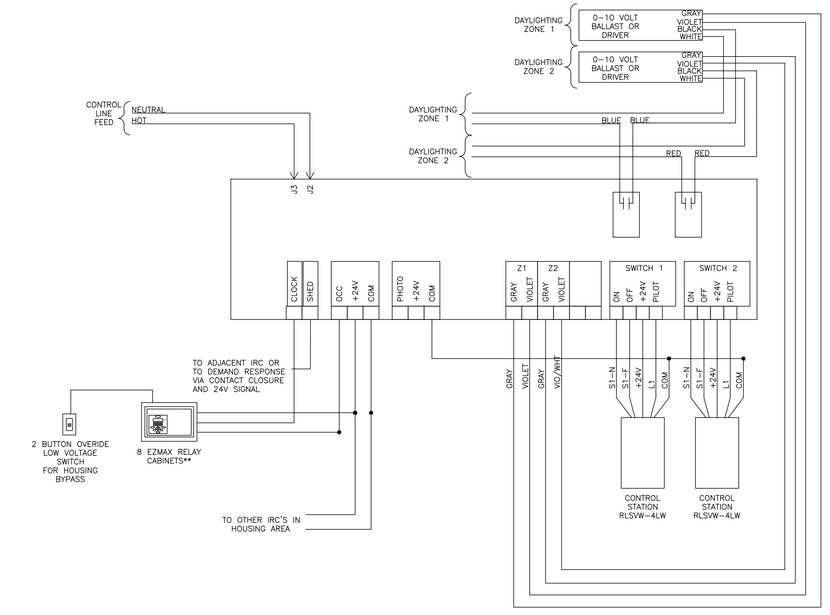
2 ROOM CONTROLLER–LARGE SINGLE RM UP TO 2 ZONES
CORRIDOR PARTIAL OFF BYPASS



3 ROOM CONTROLLER–LARGE SINGLE RM UP TO 2 ZONES
TYPICAL ROOMS

LCP-1 CIRCUIT SCHEDULE RBD08-LO8

RELAY / CIRCUIT		CONTROL			LOAD CIRCUITS			
RELAY NO.	PANEL - BREAKER	OCC SENSOR	ANALOG INPUT	TIME CLOCK	FIELD CIRCUIT	LOAD WATTS	NOTES	(EM)
1	EMX			YES	2,4		PARKING	
2	EMX			YES	1		Exterior WALL	
3	EMX			YES	3		Exterior BOLLARDS	
4	EMX			YES	5		TRELLIS AND RAMP	
5				YES			SPARE	
6				YES			SPARE	
7	EM		2 button	YES			Low Voltage Housing	
8	EM		2 vutton	YES			Low Voltage corridors/lobby	



1 ROOM CONTROLLER– SINGLE RM UP TO 2 ZONES–TIME CLOCK VIA RELAY
HOUSING AREAS

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

LIGHTING CONTROLS

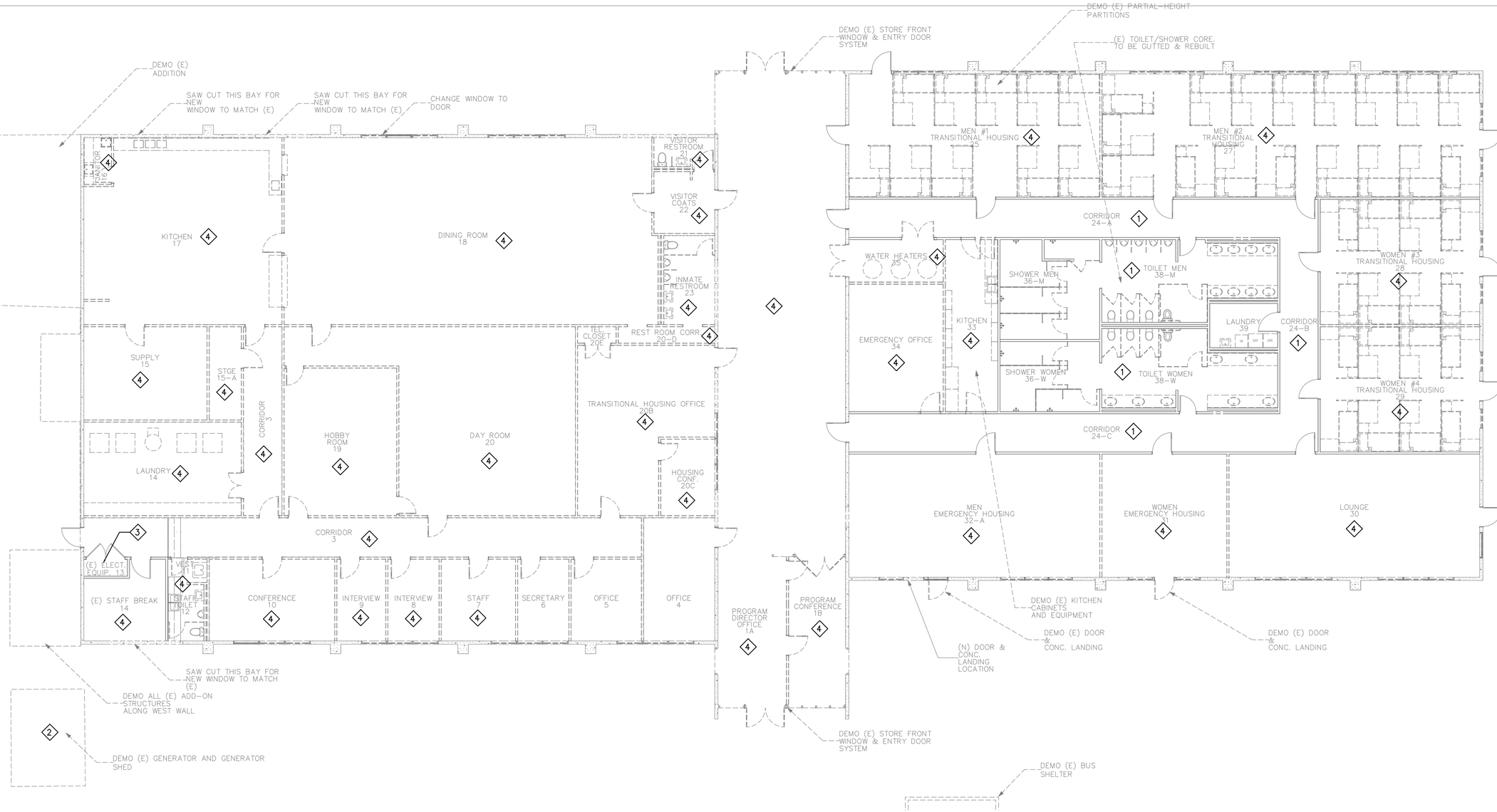
◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: E0.2



1 ELECTRICAL DEMOLITION PLAN

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. COORDIANTE 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.

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 ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

ELECTRICAL DEMOLITION PLAN

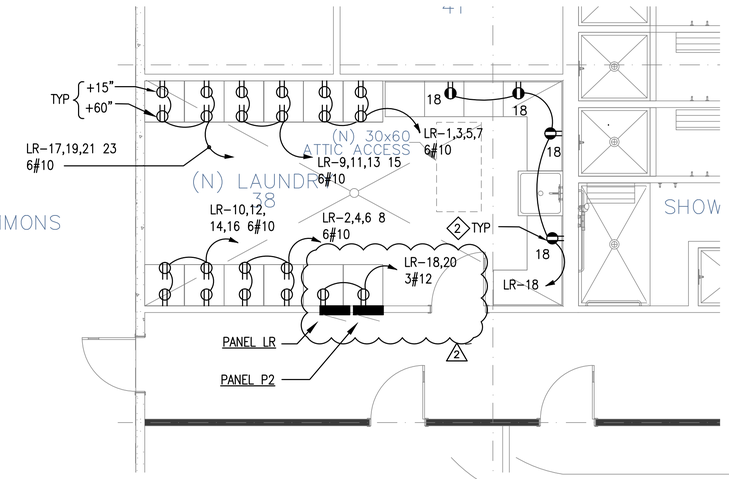
◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ 1 ADDENDUM □3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: E2.1D



4 Power and Signal Plan-Laundry

1/4" = 1'-0"

NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HOOD FIRE SUPPRESSION SYSTEM CONTROL WIRING. PROVIDE CONDUIT, WIRE, RELAYS CONTACTOR, ETC. AS REQUIRED. MAKE ALL CONNECTIONS AND INTERLOCKS IN CONFORMANCE WITH THE LOCAL FIRE MARSHALL REQUIREMENTS.
2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LINE VOLTAGE WIRING AS SHOWN ON "WEBB" DWGS. FOR THE HOOD PREWIRE CONTROL PNL WIRING DIAGRAM, INCLUDING LINE VOLTAGE POWER TO HOOD LIGHTS, LINE VOLTAGE TO CONTROL PANEL AND LINE VOLTAGE WIRING BETWEEN ALL COMPONENTS.
3. REFER TO KITCHEN DRAWING FOR ADDITIONAL INFORMATION.

3 SHEET NOTES

RE: E2.1

A. ALL RACEWAYS PASSING THROUGH THE WALLS, FLOOR OR CEILING OF THE WALK-IN COOLER/FREEZER SHALL BE SEALED WITH COMPOUND PER ARTICLE 300-7(A).

B. PLANS ARE PREPARED WITH REQUIRED BRANCH CIRCUITS INDICATED BY CIRCUIT NUMBERS. PROVIDE AND INSTALL ALL CONDUITS, CONDUCTORS, BOXES, MISCELLANEOUS FITTINGS, ETC. FOR A COMPLETE AND 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 120V CIRCUIT RUNS OVER 125 FT.

C. ALL RECEPTACLE IN KITCHEN AND WITHIN 6 FT OF ANY BASIN SINK OR LAVATORY MUST BE PROTECTED WITH GFCI. THIS INCLUDES ISOLATED GROUND RECEPTACLES.

D. WHERE 208V EQUIPMENT IS SPECIFIED, ELECTRICAL CONTRACTOR TO PROVIDE TRANSFORMER TO CORRECT VOLTAGE TO 240V. OR 230V. VERIFY NAMEPLATE REQUIREMENTS PRIOR TO INSTALLATION.

E. PROVIDE DISCONNECTING MEANS AS REQUIRED FOR ALL APPLIANCE/EQUIP. ALL DISCONNECTS, INCLUDING THOSE WITH FUSES FOR MOTORS A/C'S FANS, COMPRESSORS, ETC., SHALL BE RATED IN HORSEPOWER (BE HEAVY DUTY) AT LEAST EQUAL TO THE HORSEPOWER RATING OF THE MOTOR. NEC 430-109 AND 422C.

F. ALL AREAS OF FIRE RATED CONSTRUCTION THE POWER WIRING AND POWER CONTROL WIRING SHALL BE INSTALLED IN METALLIC CONDUIT. CBC.

G. UNDERGROUND AND OVERHEAD ROUTING OF BRACH CIRCUITS ARE GENERALLY NOT SHOWN. HOWEVER THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR COMPLETE WIRING SYSTEM INCLUDING HOMERUNS, RESTORATION OF ALL NEW OR EXISTING SURFACES REQUIRING SAW CUTTING, PATCHING, PLASTERING, PAINTING AND/OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED. VERIFY ANY APPLICABLE SEALANT SPECIFICATIONS WITH OWNER'S REPRESENTATIVE.

2 KEYED NOTES

RE: E2.1

1. PROVIDE 1"C TO ABOVE CEILING IN ACCESSIBLE LOCATION.
2. LOCATE OUTLET ABOVE COUNTER BACKSPLASH, COORDINATE WITH ARCHITECT.
3. PROVIDE TELEPHONE BACKBOARD, 48"W X 96"H X 3/4" THICK PLYWOOD WITH APPROVED GROUNDING MEANS AND 4-PLEX OUTLET. EXTEND EXISTING TELEPHONE SERVICE CONDUIT IN SPACE TO BACKBOARD. VERIFY LOCATION OF SERVICE CONDUIT IN FIELD. COORDINATE FINAL LOCATION OF BOARD IN FIELD WITH OWNER.
4. MAINTAIN REQUIRED CLEARANCE IN FRONT OF EQUIPMENT PER NEC SECTION 110-34.
5. SHOW WINDOW RECEPTACLE, FLUSH MOUNT ON CEILING.
6. LIGHTING CONTROL PANEL "LCP" SEE SHEET E02-3.
7. CONTROLLED WITH ROOM LIGHTS OCCUPANCY SENSOR VIA ROOM CONTROLLER
8. PROVIDE OUTLET FOR BOX FANS, WARMERS AND ETC.. LOCATE OUTLET ABOVE BOX AT LOCATION DIRECTED BY BOX INSTALLER. PROVIDE APPROVED VAPOR SEAL AROUND RACEWAY ENTERING BOX INCLUDING INSIDE OF ENTERING RACEWAY AFTER INSTALLATION OF CONDUCTORS.
9. HANG TWISTLOCK RECEPTACLE FROM CEILING OUTLET ON "SO" CORD WITH STRAIN RELIEF. TERMINATE CORD, RECEPTACLE AND OUTLET WITH COVERED NYLON CONNECTOR BODY. VERIFY CORD LENGTH REQUIRED WITH OWNER REPRESENTATIVE.
10. LOCATE OUTLET AND CONNECT TO HOOD FIRE SUPPRESSION SYSTEM AS REQUIRED. VERIFY LOCATION AND COORDINATE W/ HOOD SUPPLIER/INSTALLER, SEE NOTE 1, 2 AND 3 THIS SHEET
11. COORDINATE LOCATION WITH VENDOR/OWNER'S REP

I Power and Signal Plan

1/8" = 1'-0"

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

Power and Signal Plan

◦ REVISIONS ◦

No.	Date	Notes
2	6.17.16	BLD□ SUBMITTAL 1
	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: E2.1

NOTE:

- IRC — INTEGRATED ROOM CONTROLLER (IRC) LEVITON# MZD20-102.
- LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR OSC10-MOW.
- LOW VOLTAGE CEILING PHOTO SENSOR #ODCOP-OOW.
- $D — 4 BUTTON IRC CONTROL SWITCH LEVITON #RLVSW-4LW OR EQUAL
- $OS — WALLBOX OCCUPANCY SENSOR SINGLE RELAY LEVITON #ODS15-TDW OR EQUAL
- $ — 2 BUTTON OVERRIDE CONTROL SWITCH LEVITON #LVS-2LW
- PP — POWER PACK/RELAY FOR LV OCCUPANCY SENSOR OPP20-OD2.
- LCP — 8 CIRCUIT RELAY PANEL LEVITON RBD08-L08.

PLUG LOAD CONTROL REQUIRES 1 OPP20-OD1 POWER PACK PER CIRCUIT PER SPACE (2)

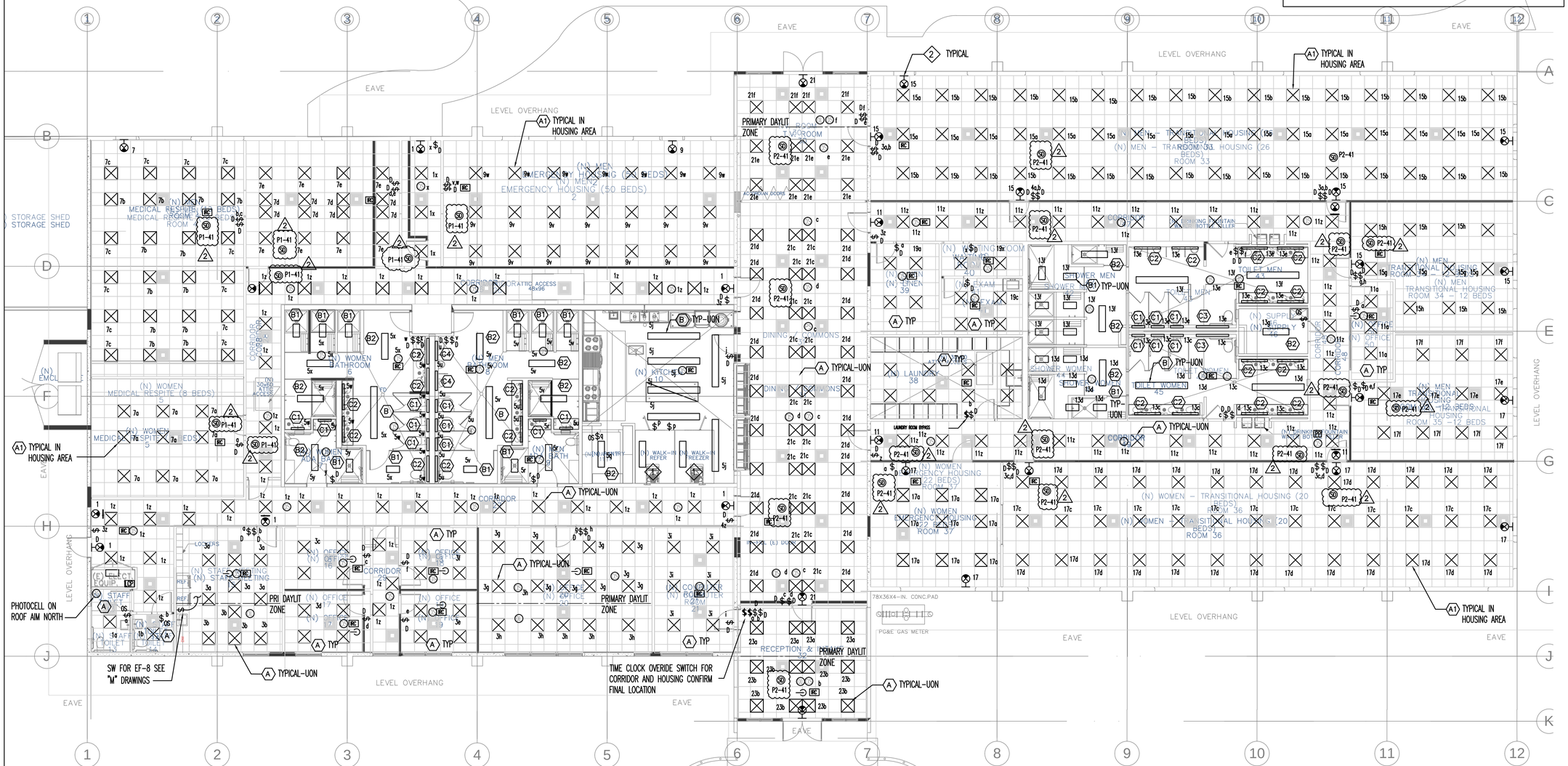
HOUSING/BED AREAS ARE NOT INCLUDED IN THE T24 CALCULATIONS, THESE AREAS ARE WITH 90 CRI LED LAMPS

3 KEYED NOTES
RE:E2.2-2

1. LIGHTS PROVIDED WITH COOLER/FREEZER BOX, COORDINATED WITH BOX MANUFACTURER.
2. CONNECT EXIT/EMERGENCY LIGHT AHEAD OF SWITCH LEG.
3. 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.

2 SHEET NOTES
RE:E2.2-2

1. PROVIDE UNSWITCHED HOT TO NIGHTLIGHTS, EMERGENCY LIGHTS, EMERGENCY BALLASTS AND EXIT SIGNS.
2. ALL ELECTRICAL LINES SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE TO AS GREAT AN EXTENT AS POSSIBLE. ALL EXPOSED CONDUITS SHALL BE INSTALLED AT LEAST 6" OFF FLOOR.
3. ALL SEAMS, GAPS, OPENINGS TO BE PROPERLY SEALED.
4. ADDITIONAL DIRECTIONAL EXIT SIGN AND EMERGENCY LIGHTS TYPE "EX" MAY BE REQUIRED TO CLEARLY INDICATE THE DIRECTION OF EGRESS AND SHALL BE FIELD VERIFIED.
5. ANY TIME A BUILDING OR PORTION OF A BUILDING IS OCCUPIED, THE MEANS OF EGRESS SERVING THE OCCUPIED PORTION SHALL BE ILLUMINATED AT AN INTENSITY OF NOT LESS THAN 1 FOOT CANDLE (II LUX) AT WALKING SURFACE LEVEL.
6. ALL EXTERIOR LIGHTING CIRCUITS THRU LIGHTING CONTROL (LCP).
7. PLANS ARE PREPARED WITH REQUIRED BRANCH CIRCUIT INDICATED BY CIRCUIT NUMBERS. PROVIDE AND INSTALL ALL CONDUITS. CONDUCTORS, BOXES, MISCELLANEOUS FITTINGS, ETC. FOR A COMPLETE AND OPERABLE SYSTEM INCLUDING HOMERUN (WHETHER OR NOT SHOWN). BRANCH CIRCUIT INSTALLATION SHALL COMPLY WITH SPECIFICATIONS AND N.E.C. (2011). PROVIDE #10 WIRE FOR 120V CIRCUIT RUNS OVER 125 FT.
8. ALL CIRCUITS THRU PANEL 'EM' U.O.N



I Lighting Plan

1/8" = 1'-0"

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

Lighting Plan

◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD☐ SUBMITTAL 1
2	8.15.16	PLAN CHEC☐ 1 ADDENDUM ☐3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: E2.2

3 GENERAL NOTES

A. ALL WIRING, DEVICES MOUNTED ON ROOF SHALL BE WEATHERPROOF.

B. PROVIDE CONTROL WIRING FOR HVAC EQUIPMENT PE MECHANICAL DRAWINGS.

C. SIZE ALL FUSES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

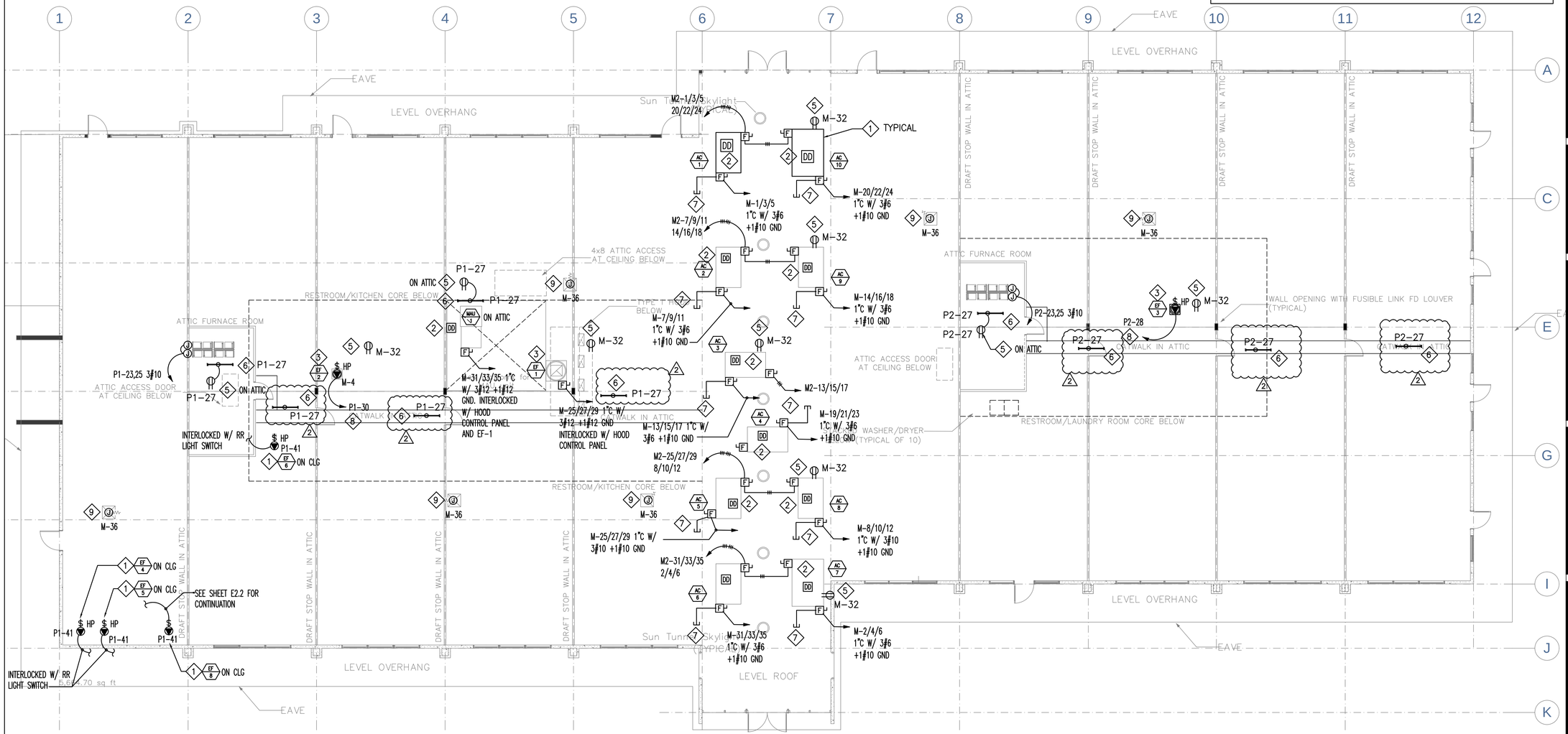
D. ALL U.L. LISTED EQUIPMENT SHALL BE INSTALLED PER THEIR LISTING OR LABELING.

E. PROVIDE NAME TAG IDENTIFICATION OF PANEL NUMBER AND BREAKER NUMBER WITH PERMANENT MARKER ON EACH DISCONNECT SWITCH LOCATED ON ROOF.

F. ROUTE ALL CONDUIT BELOW ROOF, PROVIDE FLASHED ROOF JACKS AS REQUIRED.

2 SHEET NOTES

1. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT.
2. DUCT SMOKE DETECTOR. PROVIDE OUTLET AND CONNECT TO M-34 CIRCUIT
3. EXHAUST FAN LOCATED ON ROOF SEE MECHANICAL DRAWINGS.
4. ~~CONNECT EXHAUST FAN TO BUILDING TIME CLOCK.~~
5. A GFCI PROTECTED RECEPTACLE SHALL BE INSTALLED WITHIN 25 FEET OF ALL NEW HVAC AND VENTILATING EQUIPMENT ON THE ROOF. 15 AND 20 AMPERE, 125 AND 250 VOLT RECEPTACLES INSTALLED IN A WET LOCATION HAVE AN ENCLOSURE THAT IS WEATHERPROOF WHETHER OR NOT THE THE ATTACHMENT PLUG CAP IS INSERTED.
6. PROVIDE 4 FT LED STRIP FIXTURE PENDANT HUNG TO AVOID DUCTS, PIPES ETC WITH BUILT IN MOTION SENSOR SWITCH (DAYBRITE #LF4-FR-31-30K-U-DZT-FH360)
7. PROVIDE 3/4" EMPTY CONDUIT W/ PULLCORD STUBBED INTO CEILING SPACE FOR CONTROLS.
8. INTERLOCKED WITH RESTROOMS LIGHT FIXTURE, PROVIDE RELAYS AS REQUIRED CONNECT SO EXHAUST FAN IS ON WHEN EITHER MEN'S OR WOMEN'S LIGHT SWITCH IS ON. EXHAUST FAN IS OFF WHEN BOTH SWITCHES ARE OFF.
9. VERIFY WITH MECHANICAL FOR EXACT LOCATION OF FIRE SMOKE DAMPERS, PROVIDE 120 VOLT DEDICATED CIRCUIT FOR FOR ALL SMOKE DAMPERS (CIRCUIT M-36). INTERLOCKED WITH FA SYSTEM-FA SYSTEM IS DEEFERRED SUBMITTAL.



Roof Plan-ELECTRICAL

1/8" = 1'-0"

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

Roof Plan
Electrical

◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

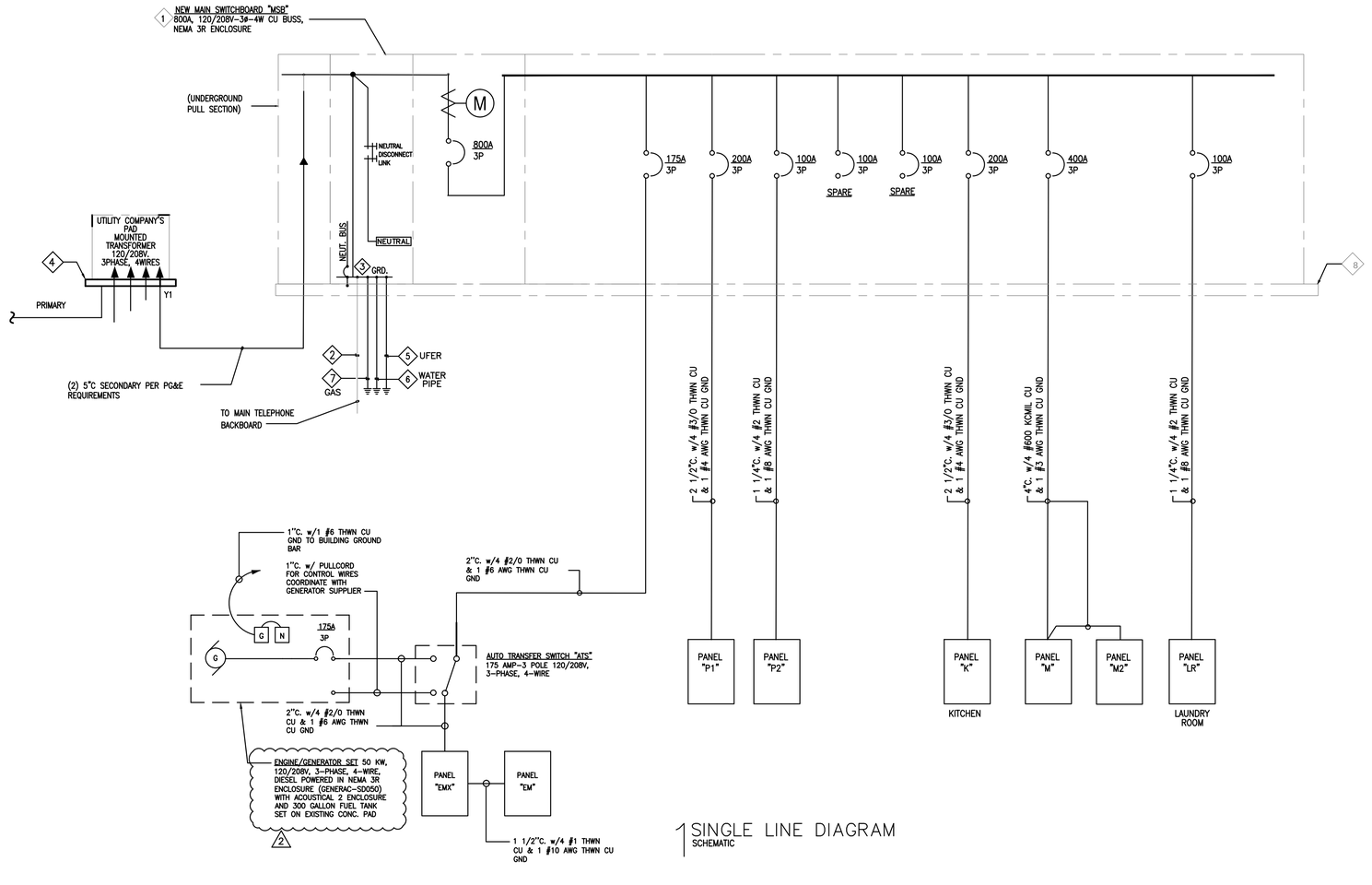
◦ SHEET: E2.3

GENERAL NOTES

1. ALL EQUIPMENT IS NEW, UNLESS OTHERWISE NOTED AS EXISTING.
2. ONLY U.L. LISTED EQUIPMENT SHALL BE USED. SUBMIT SHOP DRAWINGS OF MAIN SWITCHBOARD TO PG&E AND OBTAIN THEIR APPROVAL PRIOR TO RELEASING SHOP DRAWINGS TO MANUFACTURER.
3. ALL WIRE IS COPPER.
4. ALL SECTIONS OF MAIN SWITCHBOARD SHALL HAVE THE HORIZONTAL AND VERTICAL BUS BARS RATED FOR THE AMPERE RATING SHOWN ON SINGLE LINE DIAGRAM. REDUCTION OF AMPERE RATING OF BUS BARS THROUGHOUT THE SECTIONS OF MAIN SWITCHBOARDS IS NOT ACCEPTABLE.
5. EACH SWITCHBOARD, PANELBOARDS, CONTROL PANELS SHALL BE FIELD MARK/ATTACH WARNING LABELS " WARNING; POTENTIAL ARC FLASH HAZARD. Appropriate PPE and Tools Required when working on this equipment."
6. BUILDING DEPT. APPROVAL IS CONDITIONAL FOR THE SWITCHBOARD AND DOWNSTREAM PANELS TO MATCH OR EXCEED THE UTILITY CO. PROVIDED AIC RATING AT THE POINT OF SERVICE.
7. ALL UNDERGROUND SERVICE CONDUITS SHALL BE SEALED PER CEC 2010 ARTICLE 230-8.
8. ALL DEVICES ARE 3 POLE (UON).
9. SUPPLY METERING SECTIONS WITH SIDE RACEWAY SECTION TO FACILITATE OVERHEAD TENANT FEEDERS.
10. OBTAIN UTILITY COMPANY APPROVAL PRIOR TO SUBMITTING TO ENGINEER.
11. EACH GENERATOR SHALL BE PROVIDED WITH A NAMEPLATE GIVING THE MANUFACTURER'S NAME, THE RATED FREQUENCY, POWER FACTOR, NUMBER OF PHASES IF OF ALTERNATING CURRENT, THE SUBTRANSIENT AND TRANSIENT IMPEDANCES, THE RATING IN KILOWATTS OR KILOVOLT AMPERES, THE NORMAL VOLTS AND AMPERESCORRESPONDING TO THE RATING, RATED REVOLUTIONS PER MINUTE, INSULATION SYSTEM CLASS AND RATED AMBIENT TEMPERATURE OR RATED TEMERATURE RISE AND TIME RATING. (CEC 445.11) (2)

SINGLE LINE DIAGRAM NOTES

1. ALL COMPONENTS SHOWN ON THE SINGLE LINE DIAGRAM SHALL BE "SERIES-COMBINATION RATED SYSTEM" ADEQUATE FOR THE MAXIMUM FAULT CURRENT AVAILABLE AT THE POINT OF APPLICATION, INCORPORATING THE CURRENT LIMITING OVERCURRENT PROTECTIVE DEVICES AS SPECIFIED. SHOP DRAWINGS SHALL INDICATE SERIES- COMBINATION RATING AND INCLUDE A COPY OF ALL LABELING, INCLUDING RESPECTIVE UL LISTINGS. ALL SERIES RATED PANELS SHALL BE MARKED PER CEC 2010 ARTICLE 110-22.
2. PROVIDE 1"C.,1#6 THWN CU TO MAIN TELEPHONE BACKBOARD.
3. CONTINUOUS COPPER GROUND BUS.
4. UTILITY TRANSFORMER CONCRETE PAD, BY SITE GENERAL CONTRACTOR.
5. PROVIDE 20 FOOT OF 1#3/0 B.C. TO UFER GROUND. 2" MINIMUM CONCRETE ENCASEMENT AT BOTTOM OF BUILDING FOOTING.
6. PROVIDE 1"C.,1#3/0 THWN, CU TO BUILDING COLD METALLIC WATER PIPING SYSTEM.
7. PROVIDE 1"C.,1#3/0 THWN, CU TO ACCESSIBLE GAS MAIN. CONNECT ON SECONDARY SIDE OF METER AT SERVICE ENTRY.
8. PROVIDE 3" HOUSEKEEPING CONCRETE PAD OR BUILDING CONCRETE PAD.



1 SINGLE LINE DIAGRAM
SCHEMATIC

Table 8-4 Summary of Voltage Drop Limits

Circuit Volts (V)	2% Voltage Drop (V)	3% Voltage Drop (V)	Total Loss (V)
120	2.4	3.6	6.0
208	4.2	6.2	10.4
240	4.8	7.2	12.0
277	5.5	8.3	13.9
480	9.6	14.4	24.0

Table 8-5 Voltage Drop for Common Copper Wire Gauges and Current Loads

Wire	Circuit Amps	Maximum Feeder Length					Maximum Branch Circuit Length				
		120	208	240	277	480	120	208	240	277	480
14*	12	39	67	78	90	156	58	101	117	135	233
12*	16	46	80	93	107	185	69	120	139	160	278
10	24	48	83	96	111	192	72	125	144	166	288
8	32	57	99	115	132	229	86	149	172	199	344
6	40	73	127	146	169	293	110	190	220	253	439
4	52	89	154	178	206	356	134	232	267	309	535
2	72	103	178	206	237	412	154	267	309	356	617
0	96	123	212	245	283	490	184	319	368	424	735
00	108	137	238	274	317	549	206	357	412	475	823
0000	144	163	283	327	377	654	245	425	490	566	980
250 (kcmil)	164	170	294	340	392	679	255	441	509	588	1019
300	184	181	314	362	418	725	272	471	543	627	1087
350	200	195	338	390	450	779	292	506	584	675	1169
500	248	224	388	448	517	896	336	582	672	776	1344

Table 8-6 Voltage Drop for Common Aluminum Wire Gauges and Current Loads

Wire	Circuit Amps	Maximum Feeder Length					Maximum Branch Circuit Length				
		120	208	240	277	480	120	208	240	277	480
14*	12	24	41	47	55	95	36	62	71	82	142
12*	16	28	49	56	65	113	42	73	85	98	169
10	24	29	51	59	68	118	44	76	88	102	176
8	32	35	61	70	81	140	53	91	105	121	210
6	40	45	77	89	103	178	67	116	134	154	267
4	52	54	94	109	126	218	82	142	163	188	327
2	72	62	108	125	144	250	94	162	187	216	375
0	96	74	129	149	172	298	112	193	223	258	446
00	108	84	145	167	193	334	125	217	251	289	501
0000	144	99	172	198	229	397	149	258	298	344	595
250 (kcmil)	164	103	179	207	239	413	155	269	310	358	620
300	184	111	192	221	255	442	166	287	332	383	663
350	200	119	206	238	274	475	178	309	356	411	713
500	248	137	237	273	316	547	205	355	410	473	820

3 LOAD SUMMARY

ITEM	CONNECTED LOAD (KVA)		
1. PANEL EM/EMX (GENERATOR)	42.9		
2. PANEL K (KITCHEN LOAD)	24.4		
3. M/M2 (MECHANICAL)	140.7		
4. PANEL LR (IAUNDRY)	23.8		
5. PANEL P1	28.8		
6. PANEL P2	25.3		
7.			
8.			
9.			
10. 25% LONG CONTINUOUS LOAD	3.4		
11. 25% LARGEST MOTOR	3.6		
TOTAL	@120/208V-3P,4W		269.1 KVA 748.0 AMPS

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San Carlos, CA 94070
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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

Sinlgle Line Diagram

◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: E3.1

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	PHASE KVA LOAD A	PHASE KVA LOAD B	PHASE KVA LOAD C	LCL	BRKR P	BRKR T	REC	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-WOMENS/MENS 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	1.2	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						SUB TOTALS 14.4	14.5	14.8						CONNECTED KVA PER PHASE	
	200% RATED NEUTRAL						120	121	123						CONNECTED AMPS PER PHASE	
							TOTAL CONNECTED LOAD 43.7 KVA+[3.8 (LCL) KVA x 25%] = 47.5 KVA= 67 AMPS									

2

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	PHASE KVA LOAD A	PHASE KVA LOAD B	PHASE KVA LOAD C	LCL	BRKR P	BRKR T	REC	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			SPARE	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							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						SUB TOTALS 13.5	14.7	16.9						CONNECTED KVA PER PHASE	
	200% RATED NEUTRAL						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 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	PHASE KVA LOAD A	PHASE KVA LOAD B	PHASE KVA LOAD C	LCL	BRKR P	BRKR T	REC	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			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						SUB TOTALS 8.0	8.0	7.8						CONNECTED KVA PER PHASE	
	200% RATED NEUTRAL						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

2

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	PHASE KVA LOAD A	PHASE KVA LOAD B	PHASE KVA LOAD C	LCL	BRKR P	BRKR T	REC	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)	1	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	0.5	1	20		EXH FANS 4,5,6,8	42
	ISOLATED GROUND BUS						SUB TOTALS 9.3	9.4	10.2						CONNECTED KVA PER PHASE	
	200% RATED NEUTRAL						78	78	85						CONNECTED AMPS PER PHASE	
							TOTAL CONNECTED LOAD 28.9 KVA+[0.0 (LCL) KVA x 25%] = 28.9 KVA= 80 AMPS									

2

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	PHASE KVA LOAD A	PHASE KVA LOAD B	PHASE KVA LOAD C	LCL	BRKR P	BRKR T	REC	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						SUB TOTALS 39.6	39.1	38.7						CONNECTED KVA PER PHASE	
	200% RATED NEUTRAL						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	PHASE KVA LOAD A	PHASE KVA LOAD B	PHASE KVA LOAD C	LCL	BRKR P	BRKR T	REC	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						SUB TOTALS 7.8	7.8	7.8						CONNECTED KVA PER PHASE	
	200% RATED NEUTRAL						65	65	65						CONNECTED AMPS PER PHASE	
							TOTAL CONNECTED LOAD 23.4 KVA+[0.0 (LCL) KVA x 25%] = 23.4 KVA= 65 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	PHASE KVA LOAD A	PHASE KVA LOAD B	PHASE KVA LOAD C	LCL	BRKR P	BRKR T	REC	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						SUB TOTALS 7.6	9.1	7.7						CONNECTED KVA PER PHASE	
	200% RATED NEUTRAL						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 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	PHASE KVA LOAD A	PHASE KVA LOAD B	PHASE KVA LOAD C	LCL	BRKR P	BRKR T	REC	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						SUB TOTALS 9.7	6.9	8.8						CONNECTED KVA PER PHASE	
	200% RATED NEUTRAL						81	58	73						CONNECTED AMPS PER PHASE	
							TOTAL CONNECTED LOAD 25.4 KVA+[0.0 (LCL) KVA x 25%] = 25.4 KVA= 71 AMPS									

2

232525

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

Tantech Engineers
MEP CONSULTING ENGINEERS
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San Carlos, CA 94070
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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

Panel Schedule

◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

◦ 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: 6/12/2016

A. General Information

Climate Zone: 3	Conditioned Floor Area : 10,173				
	Unconditioned Floor Area : 0				
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: 6/12/2016

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	+	8,555	**Installed** Lighting NRCC-LTI-01-E, page 4	+	0
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)	=	8,555	Adjusted **Installed** Lighting Power (row 1 minus row 3)	=	0
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		0

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: 6/12/2016

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: 6/12/2016

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: 6/12/2016

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 (H03 x H05)	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		

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: 6/12/2016

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 (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	26.2w LED	26.2	☑	☐	22	576	Corridor/Restroom/Support	☐	☐
B2	32w LED	32.0	☑	☐	1	32	All Others	☐	☐
B2	26.2w LED	26.2	☑	☐	11	288	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:						3,077	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

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These plans are copyrighted and are subject to copyright protection as an "architectural work" under Sec. 102 of the Copyright Act, 17 U.S.O. as amended December 1990 and known as Architectural Works Copyright Protection Act of 1990. The protection includes but is not limited to the overall form as well as the arrangement and composition of spaces and elements of the design. Under such protection, unauthorized use of these plans, work or home represented, can legally result in the cessation of construction or building being seized and /or monetary compensation to CJW Architecture.

PROJECT

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

SHEET TITLE

Title 24
Lighting

REVISIONS

No.	Date	Notes
	6.17.16	BLD☐ SUBMITTAL 1
2	8.15.16	PLAN CHEC☐ ☐1 ADDENDUM ☐3

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: 6/12/2016

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]	
			How wattage was determined						
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	CEC-Default from NA6	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		

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: 6/12/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Company: Tantech Engineers	Signature Date: 6/12/2016
Address:	CEA Certification Identification (if applicable):
City/State/Zip: ,	Phone:

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: 6/12/2016

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: 6/12/2016

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)	§130.1(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(e)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.

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 3 of 3)
Project Name: LifeMoves Maple St	Date Prepared: 6/12/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Company: Tantech Engineers	Signature Date: 6/12/2016
Address:	CEA Certification Identification (if applicable):
City/State/Zip: ,	Phone:

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 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 1 of 4)
Project Name: LifeMoves Maple St	Date Prepared: 6/12/2016

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES
☐ If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
☐ If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)		(b)
1. Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)			
2. Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)			8,795
3. Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E			0
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1			8,795

☐ Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

1	2		3		4
TYPE OF BUILDING (From §140.6 Table 140.6-B)	WATTS PER (ft^2)	X	COMPLETE BLDG. AREA	=	ALLOWED WATTS
Total Area:					
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)					

C -1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES (D plus E) — **Watts**

Total from section C-2	8,795
Total from section C-3	0
Total Watts. Enter Total Watts into section A, row 2 (Above on this page)	8,795

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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	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: E4.2

1 TITLE 24

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: 6/12/2016

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 (ft²)	X	AREA (ft²)	=	WATTS
OFFICE 16	Office <= 250 sqft	1.00		199		199
OFFICE 17	Office <= 250 sqft	1.00		129		129
OFFICE 18	Office <= 250 sqft	1.00		121		121
OFFICE 19	Office <= 250 sqft	1.00		110		110
OFFICE 20	Office > 250 sqft	0.75		530		398
COMPUTER RM	Lounge, Recreation	1.10		249		274
FOOD PREP	Kitchen, Food Preparation	1.60		652		1,043
Conference RM	Convention/Conference/Meeting	1.40		333		466
Reception	Waiting Area	1.10		378		416
Corridor	Corridors	0.60		2,398		1,439
Laundry	Laundry	0.90		320		288
Restrooms	Corridor/Restroom/Support	0.60		2,472		1,483
SUPPLY	All Others	0.60		97		58
Waiting 38	Waiting Area	1.10		68		75
LINEN	Laundry	0.90		163		147
OFFICE 50	Office <= 250 sqft	1.00		108		108
			TOTALS	8,327		
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance form)						6,753
						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 2 of 4)
Project Name: LifeMoves Maple St	Date Prepared: 6/12/2016

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 (ft²)	X	AREA (ft²)	=	WATTS
DINE	Dining Room	1.10		1,734		1,907
EXAM RM	Treatment/Examination	1.20		112		134
			TOTALS	1,846		
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance form)						2,042
						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: 6/12/2016

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: 6/12/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Company: Tantech Engineers	Signature Date: 6/12/2016
Address:	CEA Certification Identification (if applicable):
City/State/Zip: ,	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
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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).
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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: 6/12/2016

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 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: 6/12/2016

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	
Name or Item Tag	Complete Luminaire Description	Watts per Luminaire	How wattage was determined: 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		☐	☐
			☐	☐					☐	☐
			☐	☐					☐	☐
			☐	☐		

1 TITLE 24

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-03-E (Revised 05/14) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 4 of 4)
Project Name: LifeMoves Maple St	Date Prepared: 6/12/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Company: Tantech Engineers	Signature Date: 6/12/2016
Address:	CEA Certification Identification (if applicable):
City/State/Zip: ,	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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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: 6/12/2016

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
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 2 of 3)
Project Name: LifeMoves Maple St	Date Prepared: 6/12/2016

MANDATORY OUTDOOR LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

Outdoor Lighting Control Schedule			Standards Complying With (✓ all that apply, or enter 'E' if Exempted)						✓ if Acceptance Test Required	Field Inspector	
A	B	C	D	E	F	G	H	I	N	O	
Location and Application of Luminaires being controlled	Type/ Description of Lighting Control (i.e. motion sensor, photocontrol, outdoor astronomical time-switch control, centralized time-based zone lighting control)	# of Units	§130.2(a)	§130.2(c)1	§130.2(c)2	§130.2(c)3	§130.2(c)4	§130.2(c)5		Pass	Fail
										☐	☐
										☐	☐
										☐	☐
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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 3 of 3)
Project Name: LifeMoves Maple St	Date Prepared: 6/12/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

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City/State/Zip: ,	Phone:

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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 POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 1 of 4)
Project Name: LifeMoves Maple St	Date Prepared: 6/12/2016

A. OUTDOOR LIGHTING POWER ALLOWANCE SUMMARY

1. General Hardscape Lighting Power Allowance (Site Total from Section B of NRCC-LTO-03-E)	1.	7,365
2. Additional Specific "use it or lose it" Lighting Power Allowances listed in each of these cells shall be identical to total allowed watts determined in Section C-1 to C-4 of NRCC-LTO-03-E.		

PER APPLICATION from Section C-1		PER UNIT LENGTH (SALES FRONTAGE) from Section C-2		PER HARDSCAPE AREA (ORNAMENTAL LIGHTING) from Section C-3		PER SPECIFIC AREA from Section C-4.			
0	+	0	+	0	+	606	=	2.	606
3. **Sum Total ALLOWED** Outdoor Lighting Wattage (add rows 1 and 2)								3.	7,971

B. GENERAL HARDSCAPE LIGHTING POWER ALLOWANCE FROM TABLE 140.7-A

Area Wattage Allowance (AWA)				Linear Wattage Allowance (LWA)			Initial Wattage Allowance (IWA)	Total General Hardscape Lighting Allowance
A	B	C	D	E	F	G	H	I
Name of area	Illuminated Hardscape Area	AWA Per Square Foot	AWA (B x C)	Perimeter Length of General Hardscape	LPA per Linear Foot	LWA (E x F)	IWA (Watts)	D + G + H
PKG AREA	64,228	0.090	5,781	1,357	0.600	814	770	7,365
							TOTAL	7,365

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 2 of 4)
Project Name: LifeMoves Maple St	Date Prepared: 6/12/2016

C. ADDITIONAL "USE IT OR LOSE IT" OUTDOOR LIGHTING POWER ALLOWANCES FOR SPECIFIC APPLICATIONS

☐ The additional specific outdoor lighting power allowance shall be the smaller of the allowed lighting power or the actual lighting power used.
☐ Use Outdoor Lighting Zone (OLZ) that is documented on page 1 of NRCC-LTO-01-E to calculate the specific wattage allowances.

C-1. WATTAGE ALLOWANCE PER APPLICATION – Table 140.7-B

☐ Available only for qualifying locations, which include Building Entrances or Exits; Primary Entrances to Senior Care Facilities, Police Stations, Hospitals, Fire Stations, and Emergency Vehicle Facilities; Drive Up Windows; Vehicle Service Station Uncovered Fuel Dispenser
☐ If more than one luminaire type is used per location, use multiple rows for that location

A	ALLOTTED WATTS			DESIGN WATTS					J
Name of Location for which allowance is claimed	B: Number of qualifying locations	C: Wattage Allowance per qualifying location	D: Allotted Watts (B x C)	E: Luminaire Code or Symbol	F: Luminaire Description	G: Luminaire Quantity	H: Watts per luminaire	I: Design Watts (G x H)	Allowed Watts (smaller of D or I)
Sum total allowance per application on this site:									0

C-2. WATTAGE ALLOWANCE PER UNIT LENGTH (Sales Frontage) from Table 140.7-B

☐ If more than one luminaire type is used per location, use multiple rows for that location

A	ALLOTTED WATTS			DESIGN WATTS					J
Name of Location for which allowance is claimed	B: Linear feet of Sales Frontage	C: Wattage Allowance per linear foot	D: Allotted Watts (B x C)	E: Luminaire Code or Symbol	F: Luminaire Description	G: Luminaire Quantity	H: Watts per luminaire	I: Design Watts (G x H)	Allowed Watts (smaller of D or I)
Sum total allowance for sales frontage on the site:									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

These plans are copyrighted and are subject to copyright protection as an "architectural work" under Sec. 102 of the Copyright Act, 17 U.S.O. as amended December 1990 and known as Architectural Works Copyright Protection Act of 1990. The protection includes but is not limited to the overall form as well as the arrangement and composition of spaces and elements of the design. Under such protection, unauthorized use of these plans, work or home represented, can legally result in the cessation of construction or building being seized and /or monetary compensation to CJW Architecture.

∘ PROJECT ∘

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

∘ SHEET TITLE ∘

Title 24
Lighting

∘ REVISIONS ∘

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

∘ JOB: 2015.2801

∘ DATE: 06/17/16

∘ SHEET: E4.4

TITLE 24

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 3 of 4)
Project Name: LifeMoves Maple St	Date Prepared: 6/12/2016

C-3. WATTAGE ALLOWANCE PER SQUARE FOOT OF HARDSCAPE AREA (Ornamental Lighting) – Table 140.7-B

☐ Allowance for the total site illuminated hardscape area. Luminaires qualifying for this allowance shall be rated for 100 watts or less as determined in accordance with Section 130.0(c), and shall be post-top luminaires, lanterns, pendant luminaires, or chandeliers.

☐ If more than one luminaire type is used per location, use multiple rows for that location

A	B	C	D	E	F	G	H	I	J
	ALLOTTED WATTS			DESIGN WATTS					
Name of area for which ornamental allowance is claimed	Square feet of Hardscape	Wattage Allowance per square foot	Allotted Watts (B x C)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per luminaire	Design Watts (G x H)	Allowed Watts (smaller of D or I)
						Sum total allowance for ornamental lighting on the site:			0

C-4. WATTAGE ALLOWANCE PER SQUARE FOOT OF SPECIFIC AREA - Table 140.7-B

☐ Allowances for Building Facades; Outdoor Sales Lots; Vehicle Service Station Hardscape; Vehicle Service Station Canopies; Sales Canopies; Non-sales Canopies; Guard Stations; Student Pick-up/Drop-off zone: Outdoor Dining; Special Security Lighting for Retail Parking and Pedestrian Hardscape.

☐ If more than one luminaire type is used per location, use multiple rows for that location

A	B	C	D	E	F	G	H	I	J
	ALLOTTED WATTS			DESIGN WATTS					
Name of Location for which allowance is claimed	Illuminated Area of Application	Wattage Allowance per square foot	Allotted Watts (B x C)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per luminaire	Design Watts (G x H)	Allowed Watts (smaller of D or I)
BUILDING FACADE	5,769	0.350	2,019	X1	30w LED	15	30.0	450	606
				X2	26 LED	6	26.0	156	
						Sum total allowance for specific area on the site:			606

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 4 of 4)
Project Name: LifeMoves Maple St	Date Prepared: 6/12/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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Address: 1431 CEDAR ST	License:
City/State/Zip: SAN CARLOS, CA 94070	Phone: 415-269-4283

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 05/15) — CALIFORNIA ENERGY COMMISSION

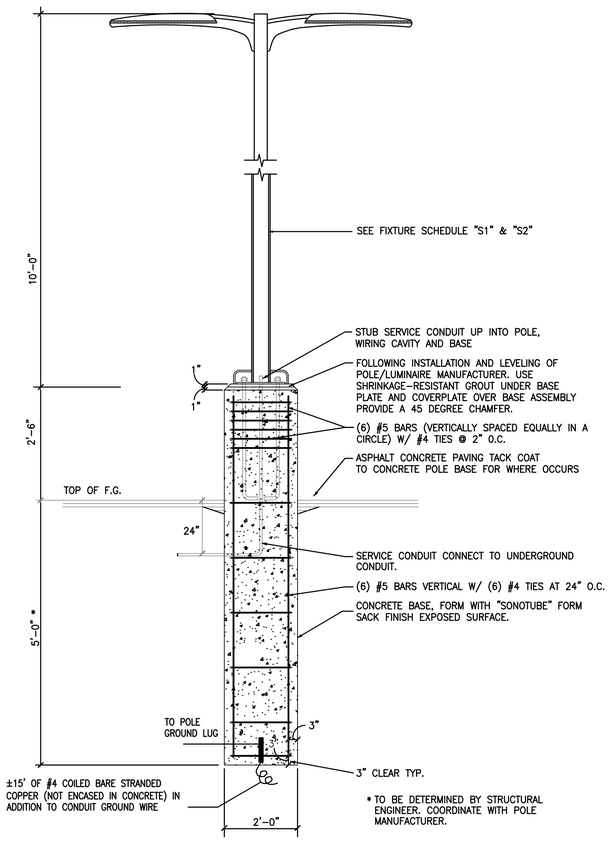
CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 2 of 7)
Project Name: LifeMoves Maple Street	Date Prepared: 7-26-2016

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 kW demand	Historical peak demand (kW)	Resettable kWh	kWh per rate period	Pass	Fail
MSB exterior wall/Main Switchboard	269.1	☐	☐	☑	☐	☐	☐
		☐	☐	☐



NOTES:

1. PAINT EXPOSED SURFACES OF POLE BASE WITH TWO (2) COATS YELLOW OR WHITE.
2. INSTALL POLE BASE IN COMPETENT SUPPORTING SOIL AS APPROVED BY THE GEOTECHNICAL ENGINEER DURING FOUNDATION CONSTRUCTION.
3. LIGHT FIXTURE AND BASE FURNISHED INSTALLED BY GENERAL CONTRACTOR

5 BASE FOR LIGHT STANDARD
N.T.S.

4 ELECTRICAL NOTES
RE:SE2

A. MARK ALL STUBOUTS WITH SUBSTANTIAL WOODEN STAKES.

B. ALL BOXES SUBJECT TO VEHICULAR TRAFFIC SHOULD BE CAREFULLY RATED FOR HEAVY VEHICULAR TRAFFIC.

C. PROVIDE ALL SPLICE/PULLBOXES WITH BOTTOM AND EXTENSIONS AS REQUIRED.

D. WHERE CONDUIT PASSES UNDER EXTERIOR FOOTINGS, BACKFILL TRENCH WITHIN 5' OF BUILDING WITH IMPERVIOUS SOIL AS APPROVED BY SOILS ENGINEER.

E. ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECONIZED TESTING LABORATORY FOR THE SPECIFIC APPLICATION IN WHICH USED, AND SHALL BE INSTALLED AS PER LISTING OR LABELING.

F. ALL EMPTY CONDUITS SHALL HAVE PULLCORDS INSTALLED AND PERMANENTLY MARKED TO IDENTIFY THEIR INTENDED USES.

G. WHERE MAIN SITE LIGHTING FIXTURE BASES DO NOT OCCUR ON AN ISLAND, BASE SHALL OCCUR AT CROSS-LINES OF PARKING STALLS. VERIFY PRECISE LOCATION WITH ARCHITECT BEFORE INSTALLATION OF CONCRETE BASES, INCLUDING SIGNS.

H. CONTRACTOR MAY INCREASE CONDUIT SIZES INDICATED FOR EASE OF PULLING- WITH NO ADDITIONAL COST TO OWNER (SITE LIGHTING ONLY).

I. PROVIDE GROUND WIRE IN ALL NON-METALLIC UNDERGROUND CONDUITS, PER CODE, 1#12 CU. MINIMUM (GROUND WIRE GENERALLY NOT SHOWN). USE PVC SCHEDULE 40 OR 80 FOR NON-METALLIC CONDUITS.

J. UNDERGROUND BRANCH CIRCUIT RACEWAYS SHALL BE A MINIMUM OF 24" BELOW FINISHED GRADE.

K. SEE BUILDING DRAWING FOR BUILDING-MOUNTED LIGHTING

L. SEE ARCHITECTURAL AND LANDSCAPE DRAWINGS FOR PRECISE LOCATION OF FLATWORK, WALKWAY AND LIGHTING FIXTURES. COODINATE BOX LOCATIONS WITH LANDSCAPING TO OCCUR IN PLANTED AREAS, NOT LAWNS OR PAVING, WHERE POSSIBLE.

M. SEE ARCHTECTURAL SITEWORK AND CIVIL DRAWINGS FOR PRECISE LOCATIONS OF PARKING LOT LUMINAIRES.

N. ALL 20A CIRCUITS UP TO 100'-0" IN LENGTH SHALL UTILIZE #12 CONDUCTORS MINIMUM, UNLESS NOTED OTHERWISE. ALL 20A CIRCUITS FROM 101'-0" TO 150'-0" IN LENGTH SHALL UTILIZE #10 CONDUCTORS MINIMUM. ALL 20A CIRCUITS 151'-0" UP TO 250'-0" IN LENGTH SHALL UTILIZE #8 CONDUCTORS MINIMUM. CIRCUITS ABOVE 251'-0" SHALL UTILIZE #6 CONDUCTORS MINIMUM. REDUCE TO #12 CONDUCTORS AT PANEL FOR FINAL CONNECTIONS TO CIRCUIT BREAKER.

1 LEGEND
RE: SE2

SYMBOL	DESCRIPTION
—U/P—	UNDERGROUND ELECTRICAL DUCT LINE POWER, 24" DEEP PER UTILITY CO REQUIREMENTS. SAWCUT (E) PAVING FOR NEW CONDUITS AND PATCH EXISTING PAVING TO MATCH IN LIKE AND KIND AFTER INSTALLATION OF CONDUITS.
▨	PRE-CAST ELECTRICAL SPLICE BOX 13"X24"X16" DEEP (SIZE PER NEC) DUTY TRAFIC COVER WHERE EXPOSED TO LOCATE SO AS HOT TO AFFECT PLANTING.
⊙	DECORATIVE POLE MOUNTED FIXTURE.
□●, □●□	POLE MOUNTED LUMINAIRE(S) WITH SINGLE HEAD, TWIN HEADS.
- - - -	CONDUIT 3/4"C. W/ 3#8 MIN UON, DOWN 24" SAWCUT AND PATCH (E) PAVING.

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.

3 GENERAL NOTES
RE:SE2

(SEE PG&E JOINT TRENCH UTILITY PLANS FOR TRENCHING, ROUTING, SUBSTRUCTURE SIZES AND LOCATIONS)

1. ALL THE CONTRACTOR INSTALLED FACILITIES AND TRENCHING MUST BE INSPECTED BY A PG&E INSPECTOR. WHEN APPROVED, THE INSPECTOR WILL SIGN THE PG&E UNDERGROUND INSPECTION RECORD. PLEASE MAKE ARRANGEMENTS FOR INSPECTIONS A MINIMUM OF (3 WORKING DAYS) 72 HOURS IN ADVANCE. FAX THE "REQUEST FOR INSPECTION" FORM WITHIN 72 HOURS (831)784-3334. ANY QUESTIONS, PLEASE CALL YOUR PG&E REPRESENTATIVE.
2. ALL MATERIALS AND WORKMANSHIP MUST MEET THE REQUIREMENTS AND SPECIFICATION AS OUTLINED HEREIN, AND SHOULD NOT BE INSTALLED WITHOUT PRIOR NOTICE TO THE INSPECTOR. ANY MATERIAL OR WORKMANSHIP NOT APPROVED BY THE INSPECTOR SHALL BE CORRECTED AND INSTALLED IN AN APPROVED MANNER. NO WORK SHALL BE BACKFILLED, COVERED, OR IN ANYWAY CONCEALED UNTIL IT HAS BEEN APPROVED BY A PG&E INSPECTOR.
3. THE CONTRACTOR IS REQUIRED TO GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR A PERIOD OF 2 YEARS AFTER FINAL ACCEPTANCE BY PG&E. SIGNATURE ON THE CHECK LIST CONSTITUTES THE CONTRACTOR'S RECOGNITION OF THIS REQUIREMENT.
4. CONTACT UNDERGROUND SERVICE ALERT (U.S.A.), 2 WORKING DAYS IN ADVANCE OF DIGGING (1-800- 227-2600).
5. IMMEDIATE BACKFILL OF PG&E FACILITIES IS REQUIRED; MANPOWER, TOOLS AND EQUIPMENT MUST BE PROVIDED BY THE CONTRACTOR.
6. FOR CUSTOMER OWNED SERVICE TERMINATION FACILITIES REFER TO PG&E GAS AND ELECTRIC SERVICE REQUIREMENTS MANUAL (GREEN BOOK)

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

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

SITE ELECTRICAL PLAN NOTES,

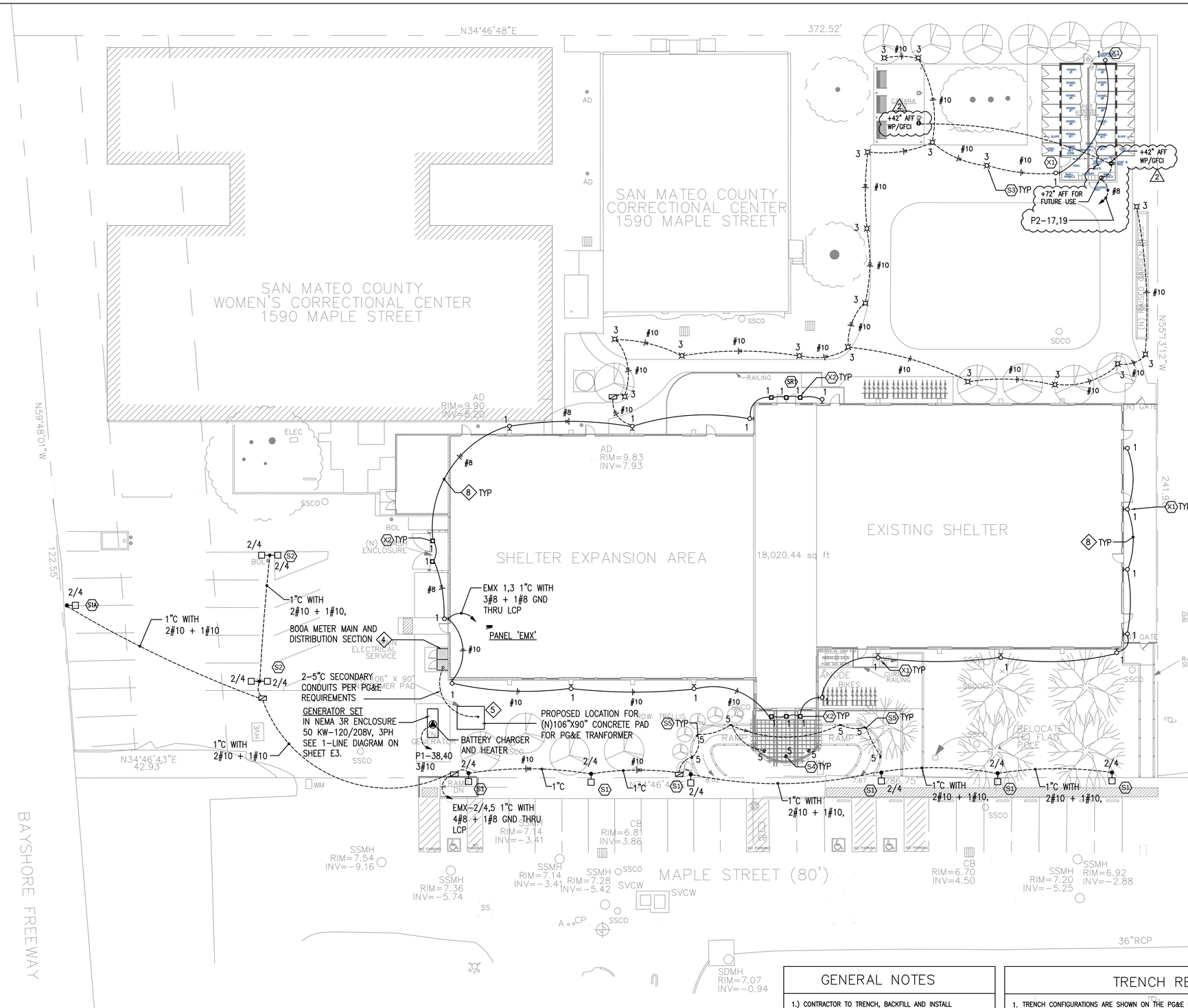
◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: SE1



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.

1 SITE PLAN – ELECTRICAL
1/16"= 1'-0"

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◦ PROJECT ◦

LifeMoves Maple Street Shelter
1580 Maple Street
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◦ SHEET TITLE ◦

SITE ELECTRICAL PLAN

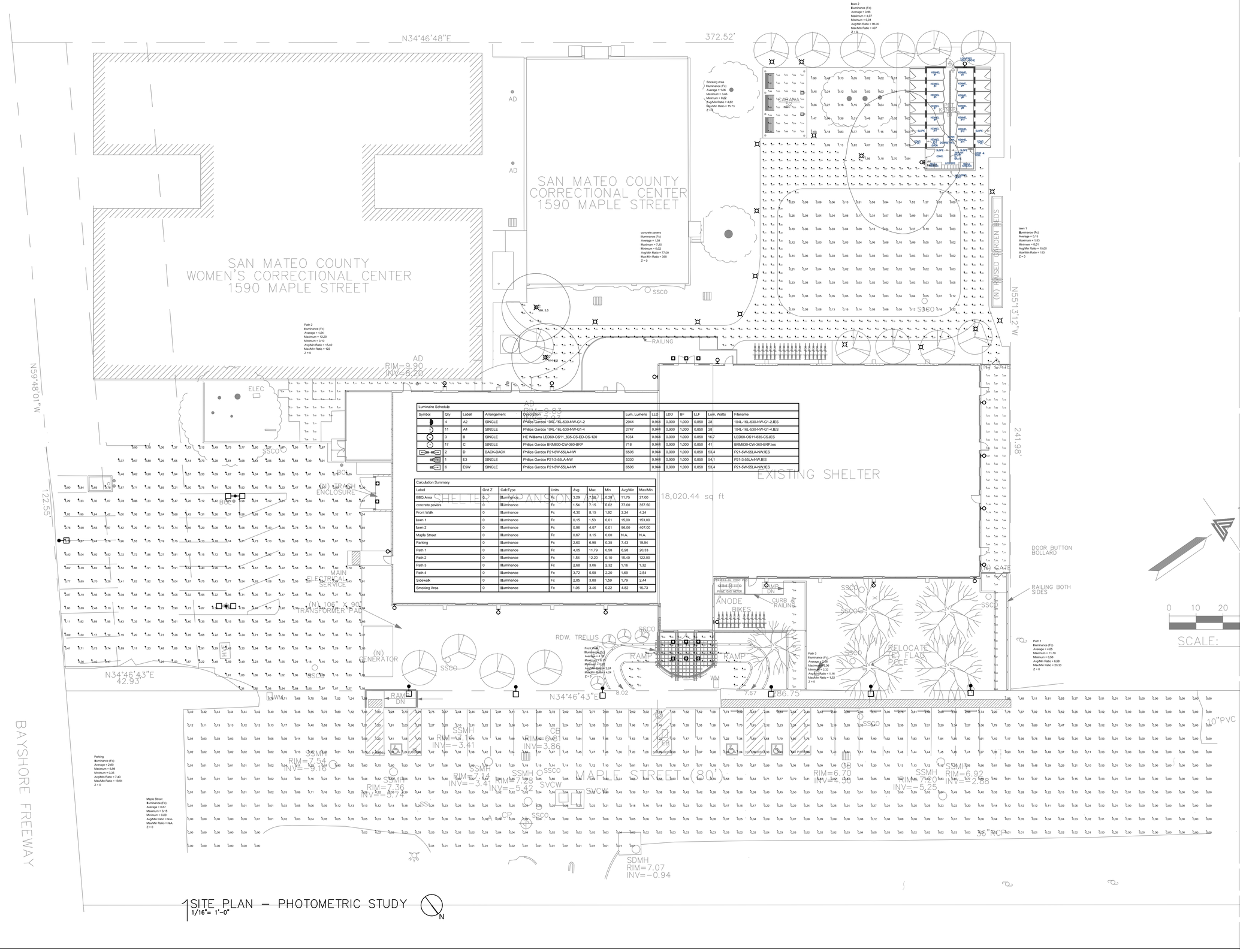
◦ REVISIONS ◦

No.	Date	Notes
	6.17.16	BLD□ SUBMITTAL 1
2	8.15.16	PLAN CHEC□ □1 ADDENDUM □3

◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: SE2


N34°46'48"E
372.52'
SAN MATEO COUNTY
WOMEN'S CORRECTIONAL CENTER
1590 MAPLE STREET
SAN MATEO COUNTY
CORRECTIONAL CENTER
1590 MAPLE STREET
AD
RIM=9.90
INV=8.20
ELEC
N59°48'01"W
122.55'
BAYSHORE FREEWAY
N34°46'43"E
42.93'
(N) TRASH ENCLOSURE
MAIN ELECTRICAL SERVICE
(N) 10'-0" X 9'-0" TRANSFORMER PAD
(N) GENERATOR
RAMP DN
RAMP
RAILING
CURB RAILING
ANODE BIKES
RDW. TRELLIS
SSCO
SSCO
SSCO

87,125 SQ.FT.
2.00 ACRES

NOTE: ALL PLANTED AREAS WITHIN THE ▨ LINE SHALL HAVE 12" IMPORTED TOP SOIL
REMOVE EXISTING GRAVELY SOIL FROM SITE & REPLACE WITH RICE TRUCKING 85% / 15% AMENDED SOIL

16 | 1gc | Festuca m.
2 | 24" b. | Arbutus m.
6 | 5gc | Raph o.m.
12 | 5gc | Pittosporum ten.
7 | 24" b. | Tristania l.
27 | 1gc | Carex tum.
12 | 5gc | Raph o.m.
20 | 1gc | Festuca m.
12 | 5gc | Loropetalum 'Plum Delight'
8 | 5 gc | Phormium c.
15 | 5gc | Phormium c.
12 | 5gc | Pittosporum ten.
5 | 1gc | Ceanothus Y.P. 6' o.c.
7 | 5gc | Parthenocissus tri
26 | 1gc | Carex tum.
28 | 1gc | Ceanothus Y.P. 6' o.c.
5 | 24" b. | Metrosideros t.

LEGEND

TREES

5- 24 " BOX METROSIDEROS EXCELSUS NEW ZEALAND CHRISTMAS TREE

12- 24 " TRISTANIA LAURINA SWAMP MYRTLE

12- 24 " BOX ARBUTUS MARINA STRAWBERRY MADRONE STANDARD

SHRUBS

48- 1 GALLON CEANOTHUS GRESIUS 'YANKEE POINT' CARMEL CREEPER

51- 5 GALLON RHAPHIOLEPIS OVATA MINOR NCN

37- 5 GALLON PITTOSPORUM TENUIFOLIUM 'TOM THUMB' NCN

21- 5 GALLON LOROPETALUM 'PLUM DELIGHT'

23- 5 GALLON PHORMIUM COOKIANUM 'MAORI QUEEN' NEW ZEALAND FLAX

GRASSES & VINES

36- 1 GALLON FESTUCA MAIREI ATLAS FESCUE
179- 1 GALLON CAREX TUMUICOLA BERKELEY SEDGE

42- 1 GALLON CAREX PANSA CALIFORNIA MEADOW SEDGE
7- 5 GALLON PARTHENOCISSUS TRICUSPADATA 'VETCHII' BOSTON IVY

GROUND COVERS

RHIZOMATOUS TALL FESCUE SOD PARK AVE TURF OR EQ. ALL TURF AREAS TO HAVE 12" AMENDED TOPSOIL RICE TRUCKING 85/15 OR APP EQ.

MYOPRUM 'PUTAH CREEK' 1 G.C. @5'O.C.

ROSA 'FLOWER CARPET RED' 5 G.C. @4'O.C.

3" WETTED DEPTH OF RECYCLED MULCH @ EXISTING TREES TO BE SAVED

6" WIDE X8" DEEP CONCRETE MOW BAND @ TREES

PLANT LIST

BOTANICAL NAME	COMMON NAME	QUANTITY	WATER USE	SIZE
TREES				
Metrosideros excelsus	New Zealand Xmas Tree	5	Low	24" Box
Tristania laurina	Swamp Myrtle	12	Low	24" Box
Arbutus 'Marina"	Strawberry Madrone	12	Low	24" Box
Shrubs				
Ceanothus gresius 'Yankee Point'	Carmel Creeper	48	LOW	1 g.c.
Rhaphiolepis ovata 'Minor'	N.C.N.	51	Low	5 g.c.
Pittosporum tenuifolium 'Tom Thumb'	NCN	37	Moderate	5 g.c.
Loropetalum 'Plum Delight'	NCN	21	Low	5 G.C.
Phormium hybrid. 'Maori Queen'	New Zealand Flax	23	Low	5 G.C.
Grasses & Vines				
Festuca mairei	Atlas Fescue	36	Low	1 G.C.
Carex tumuicola	Berkeley sedge	179	Low	1 G.C.
Carex pansa	California Meadow Sedge	42	Moderate	1 g.c.
Tall fescue sod	NCN	Sod	Moderate	Sod
Myoprum 'Putah Creek'	Myoprum		Low	1 g.c. @ 5' o.c.
Rosa 'Flower Carpet Red'	Flower Carpet Rose		MODERATE	5 g.c. @ 4' o.c.
Parthenocissus tricuspadata	Boston Ivy	7	Low	5 G.C.

PLANTING PLAN SOUTH
1"=10'

0 10 20
scale 1" = 10' feet

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

Ron Hodges
Landscape Architect
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ronalde.hodges@gmail.com
707-481-4500

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LICENSED LANDSCAPE ARCHITECT
RONALD E. HODGES
No. 1356
Ronald E. Hodges
Signature
08/1/16
Date
EXP. 1/31/17
STATE OF CALIFORNIA

• PROJECT •

SAN MATEO SHELTER

• SHEET TITLE •

PLANTING PLAN

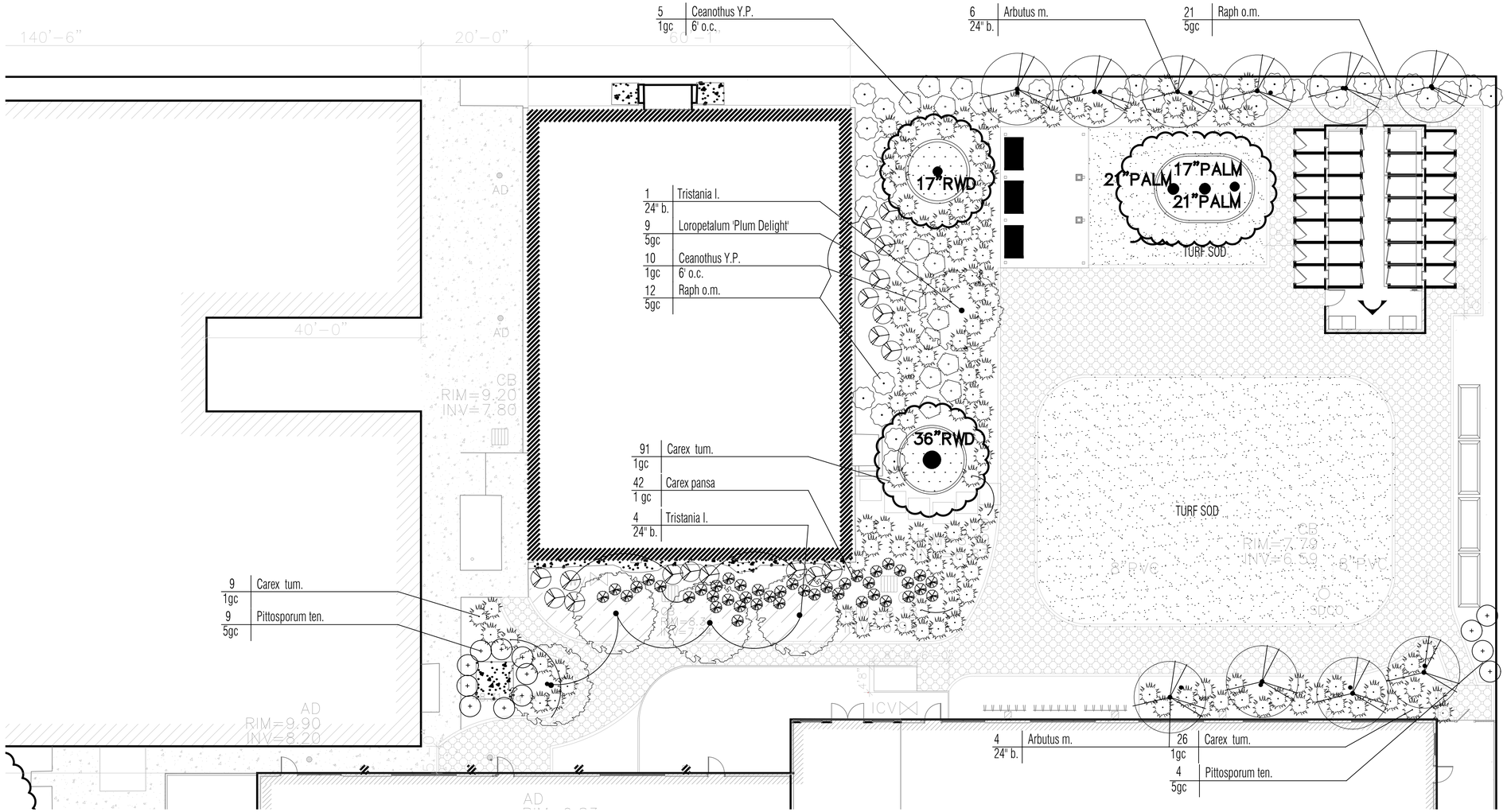
• REVISIONS •

No.	Date	Notes
1	08-11-16	REV.BASE / P.C

• JOB: SAN MATEO SHELTER

• DATE: 08-11-16

• SHEET: L-1



LEGEND

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ROSA 'FLOWER CARPET RED' 5 G.C. @4'O.C.

3" WETTED DEPTH OF RECYCLED MULCH @ EXISTING TREES TO BE SAVED

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Tall fescue sod	NCN	Sod	Moderate	Sod
Myoprum 'Putah Creek'	Myoprum		Low	1 g.c. @ 5' o.c.
Rosa 'Flower Carpet Red"	Flower Carpet Rose		MODERATE	5 g.c. @ 4' o.c.
Parthenocissus tricuspadata	Boston Ivy	7	Low	5 G.C.

PLANTING PLAN NORTH 1"=10'

0 10 20 scale 1" = 10' feet

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LICENSED LANDSCAPE ARCHITECT RONALD E. HODGES No. 1356 Ronald E. Hodges Signature 08/1/16 Date EXP. 1/31/17 STATE OF CALIFORNIA

• PROJECT •

SAN MATEO SHELTER

• SHEET TITLE •

PLANTING PLAN

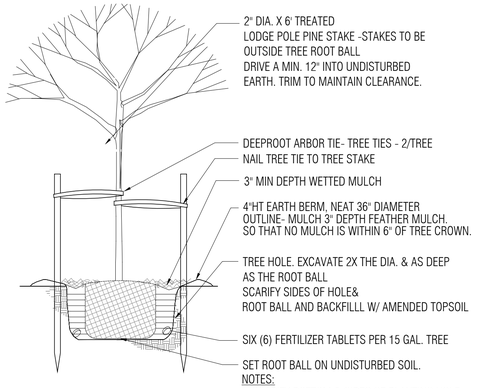
• REVISIONS •

No.	Date	Notes
2	08-11-16	REV.BASE / P.C

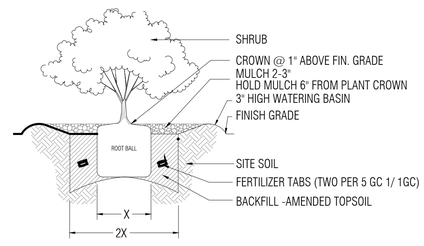
• JOB: SAN MATEO SHELTER

• DATE: 08-11-16

• SHEET: L-2

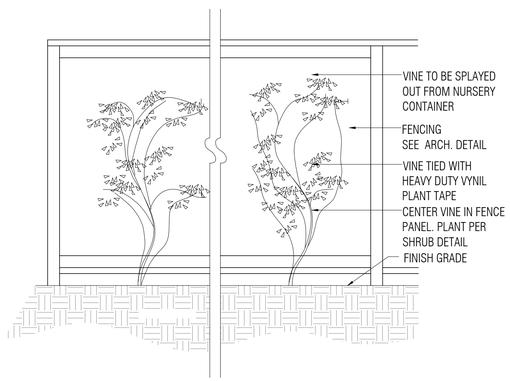


A L-5 TREE PLANTING DETAIL



NOTES:
1. SCARIFY BOTTOM & SIDES OF PLANTING HOLE.
2. LOOSEN ROOTBALL, CUT ANY CIRCLING ROOTS.
3. OBTAIN BACKFILL FROM SITE TOPSOIL STOCKPILE

B L-5 SHRUB PLANTING DETAIL



C L-5 VINE PLANTING DETAIL

ITEM	MATERIAL	RATE OF APPLICATION
SOIL PREPARATION IN ACCORDANCE WITH THE SPECIFICATIONS FOR GRASS AREAS, SOIL PREPARATION AND SOIL PREPARATION FOR ALL SHRUB, TREE AND/OR GROUNDCOVER AREAS, INCORPORATE SOIL AMENDMENTS INTO TOP 10" OF SITE SOIL ON AREAS W/O IMPORTED TOPSOIL SEE PLANS FOR LOCATION OF IMPORTED TOPSOIL	LANDSCAPE CONTRACTOR TO REFER TO WAYPOINT REPORT 16-092-0105 COMPOSTED RECYCLED ORGANIC SOIL AMMENDMENT	3YARDS/1000 S.F. 7 LBS 21-0-0 5 LBS 0-0-50
PLANTING BACKFILL IN ACCORDANCE WITH THE SPECIFICATIONS FOR PLANTING OF SHRUBS & TREES, INCORPORATE SOIL AMENDMENTS AND FERTILIZERS IN PLANTING BACKFILL AS FOLLOWS:	PER SOILS REPORT	PER SOILS REPORT
PRE-EMERGENCE WEED CONTROL TWO WEEKS AFTER PLANTING OF GROUNDCOVER EXCEPT BIO SWALES,& ARCTOSTAPHYLOS AREAS CULTIVATE, WEED & APPLY PRE-EMERGENCE WEED CONTROL, IN ACCORDANCE W/ MANUFACTURER'S DIRECTIONS, TO ALL GROUNDCOVER AREAS & PLANT BASINS.	RONSTAR OR APPROVED EQUAL	AS PER MFG'S DIRECTIONS.
TOP DRESSING IN ACCORDANCE WITH THE SPECIFICATIONS, AFTER APPLICATION OF PRE-EMERGENCE WEED CONTROL, MULCH GROUNDCOVER AREAS AND PLANT BASINS (KEEP MULCH 6" FROM PLANT CROWNS) WITH MULCH TO WETTED DOWN DEPTHS AS FOLLOWS:	RECYLCED WOOD MULCH OR APPROVED EQUAL	3" DEPTH 2" DEPTH IN MANZINITA AREAS
FEEDING IN ACCORDANCE WITH THE SOILS REPORT FOR FEEDING DURING MAINTENANCE PERIOD, APPLY FERTILIZER TO PLANTINGS AND GROUND- COVER AREAS ONE WEEK PRIOR TO FINAL INSPECTION AS FOLLOWS:	COMMERCIAL FERTILIZER AS REQUIRED BY SOILS REPORT	PER SOILS REPORT
SOILS REPORT SOILS REPORT PREPARED BY WAYPOINT ANALYTICAL 04/06/16 AVALIABLE TO CONTRACTOR 408-727-0330 www.waypointanaylitical.com		

D L-5 PLANTING MATERIALS

PLANTING NOTES

1. INSTALL PLANT MATERIALS AS SHOWN IN THE PLANTING DETAILS.

2. PLANT QUANTITIES ARE NOT PROVIDED ON LEGEND FOR THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE CORRECT QUANTITY OF PLANTS PER THE PLANS

3. NURSERY TRAINING STAKES SHALL BE REMOVED FROM ALL TREES AT TIME OF PLANTING. TREES THAT CAN NOT SUPPORT THEMSELVES WHEN STAKED OR GUYED PER DETAIL SHALL BE REJECTED.

4. TREES TO BE PLANTED WITHIN 4' OF ANY CURBS, PAVEMENTS, OR WALLS MUST BE INSTALLED WITH ROOT BARRIERS, SEE DETAIL FOR TREE PLANTING

5. FERTILIZER TABLETS PER SOILS REPORT

6. CARE SHALL BE TAKEN TO PROTECT EXISTING TREES AND ROOTS. TRENCHING AND DIGGING BENEATH EXISTING TREE CANOPIES SHALL BE DONE MANUALLY. DO NOT CUT ROOTS LARGER THAN 2" IN DIAMETER.

7. CONTRACTOR TO IMPORT AMENDED TOPSOIL MIX AS SHOWN ON PLANS FOR FRONT LANDSCAPE AREAS.

E L-5 PLANTING NOTES

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

Ron Hodges
Landscape Architect
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ronalde.hodges gmail.com

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LICENSED LANDSCAPE ARCHITECT
RONALD E. HODGES
No. 1356
Ronald Hodges
Signature
08/11/16
Date
EXP. 1/31/17
STATE OF CALIFORNIA

• PROJECT •

SAN MATEO SHELTER

• SHEET TITLE •

PLANTIN DETAILS

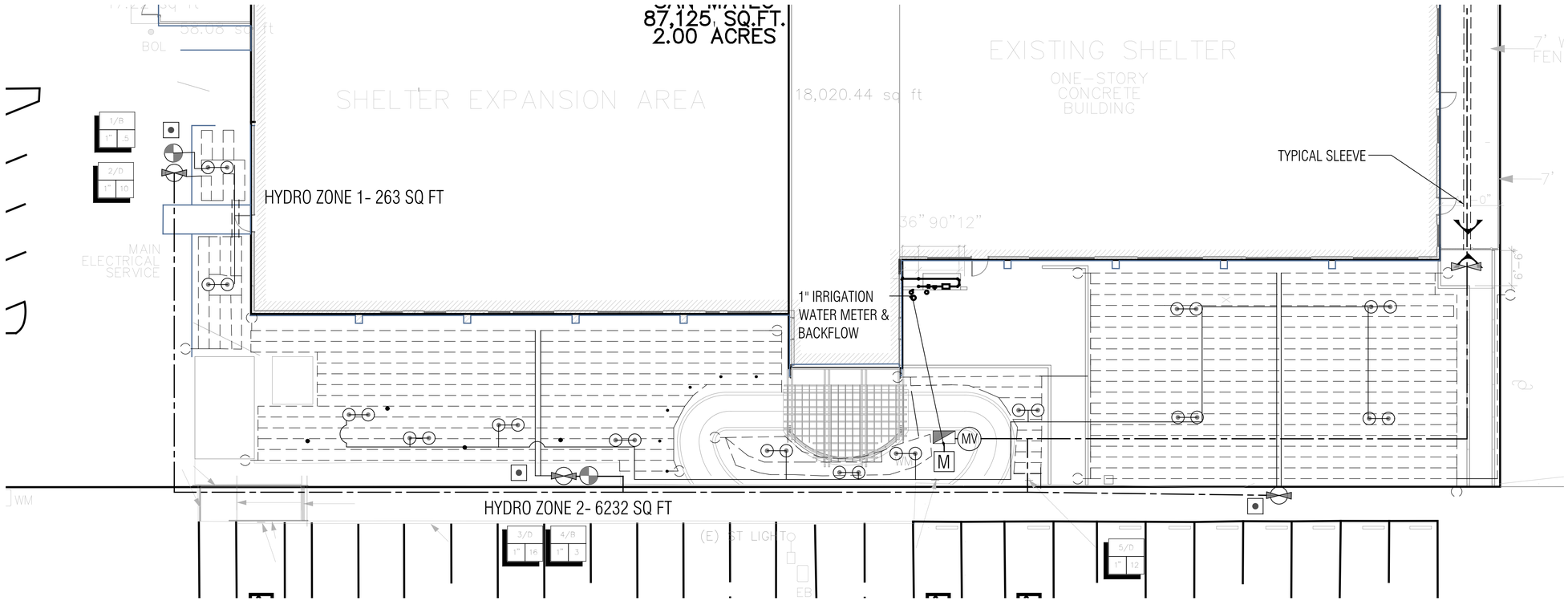
• REVISIONS •

No.	Date	Notes
1	08-11-16	REV. BASE / P.C

• JOB: SAN MATEO SHELTER

• DATE: 08-11-16

• SHEET: L-5



IRRIGATION
PLAN
SOUTH
1"=10'

LEGEND

- M — 1" WATER METER FOR IRRIGATION SEE CIVIL PLANS
- BACKFLOW PREVENTER 1" DIA. SEE DETAIL NON-POTABLE MODEL
- PR — 1" WATTS PRESSURE REGULATOR SET @ 40 PSI
- REMOTE CONTROL VALVE HUNTER PGV-100G SERIES
  FOR TREE BUBBLERS ONLY W/ NON-POTABLE BOX COVER
- MV — REMOTE CONTROL VALVE HUNTER PGV-100G SERIES
  FOR MASTER VALVE IN NON-POTABLE VALVE BOX
- LINE SIZE BALL ISOLATION VALVE PER DETAIL VALVES
  @ MAIN LINE CROSSINGS UNDER DRIVE WAYS
- C — HUNTER I-Core 6-station base model with outdoor plastic cabinet, North America version
  6-Station Module ICM-600
  Solar Sync- Wireless (ET/rain sensor) WSS-SEN
  Twelve station controller w/ ET module & wireless rain sensor
- DRIP VALVE PER DETAIL IN NON-POTABLE BOX
- BALL ISOLATION VALVE PER DETAIL ONE PER MANIFOLD TO SHUT OFF VALVES
- QUICK COUPLER RAINBIRD 33DLRC W/ NON-POTABLE "PURPLE" COVER
- 2.5 — HUNTER I-25 ADV -025 ROTOR W/ NON-POTABLE "PURPLE" COVER
- 4 — HUNTER I-25 ADV -04 ROTOR W/ NON-POTABLE "PURPLE" COVER
- V H Q P — TORO 570Z PRX-6P-COM-15-F-PC-V NON POTABLE "PURPLE" NOZZLE
- VALVE CALL OUT D- SHRUB DRIP / B- TREE BUBBLER / L- LAWN
- HUNTER RZWS-10 - 25 = 10" Root zone watering system at 0.25 GPM
  (2 BUBBLERS) PER TREE SEE DETAIL
- RAINBIRD XFD-09-12-500 0.90 18 SURFACE DRIP TUBING PER DETAILS L-4
- SCHEDULE 40 SOLVENT WELD MAIN LINE 11/2" DIA. NON-POTABLE PIPE- "PURPLE PIPE"
- 3/4" SCHEDULE 40 LATERAL LINE TO BUBBLERS & DRIP TUBING NON-POTABLE- "PURPLE PIPE"
- SCHEDULE 40 SLEEVE UNDER PAVEMENT TYPICAL ALL PIPE CROSSINGS
- THREADED END CAP FOR DRIP LINES

HYDRO ZONE 1- 263'
HYDRO ZONE 2- 6232'
HYDRO ZONE 3- 4769'
HYDRO ZONE 4- 8844'
HYDRO ZONE 5- 575'

TOTAL IRRIGATED AREA 20,683 SQ FT

scale 1" = 10' — 0, 10, 20 feet

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

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Ronald E. Hodges
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Date
EXP. 1/31/17
STATE OF CALIFORNIA

• PROJECT •

SAN MATEO
SHELTER

• SHEET TITLE •

IRRIGATION

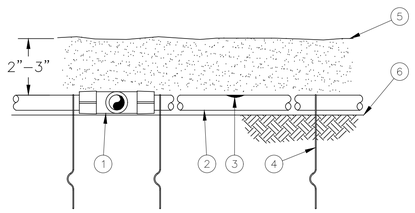
• REVISIONS •

No.	Date	Notes
1	08-11-16	REV.BASE / P.C

• JOB: SAN MATEO SHELTER

• DATE: 08-11-16

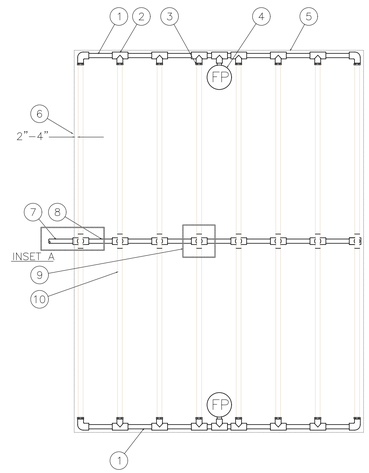
• SHEET: L-3



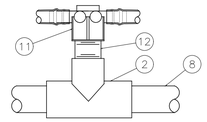
1. EASY FIT COMPRESSION TEE: RAIN BIRD MDCFTEE
2. ON–SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFD DRIPLINE
3. INLINE DRIP EMITTER OUTLET
4. TIE DOWN STAKE: RAIN BIRD TDS–050 WITH BEND (TYPICAL)
5. MULCH
6. FINISH GRADE

NOTES:
1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE–DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

A L-6 DRIP LINE IRRIGATION



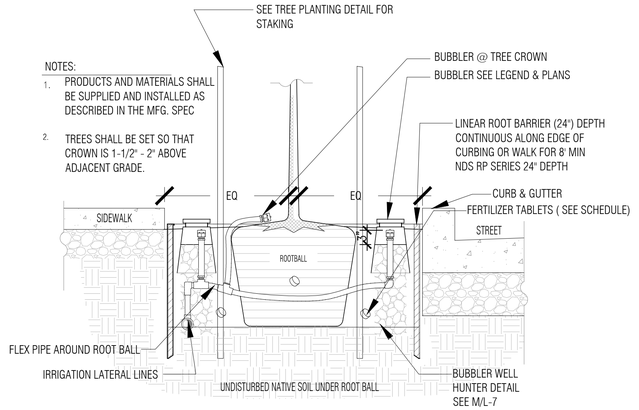
1. PVC EXHAUST HEADER
2. PVC SCH 40 TEE OR EL (TYPICAL)
3. BARB X MALE FITTING: RAIN BIRD XFF–MA FITTING (TYPICAL)
4. FLUSH POINT (TYPICAL) SEE RAIN BIRD DETAIL "XFD FLUSH POINT"
5. PERIMETER OF AREA
6. PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"–4" FROM PERIMETER OF AREA
7. PVC SUPPLY PIPE FROM RAIN BIRD CONTROL ZONE KIT (SIZED TO MEET LATERAL FLOW DEMAND)



INSET A

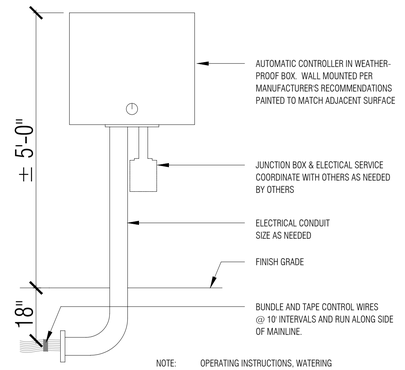
NOTES:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE 18"
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED 350'

B L-6 LAYOUT OF INLINE DRIP IRRIGATION



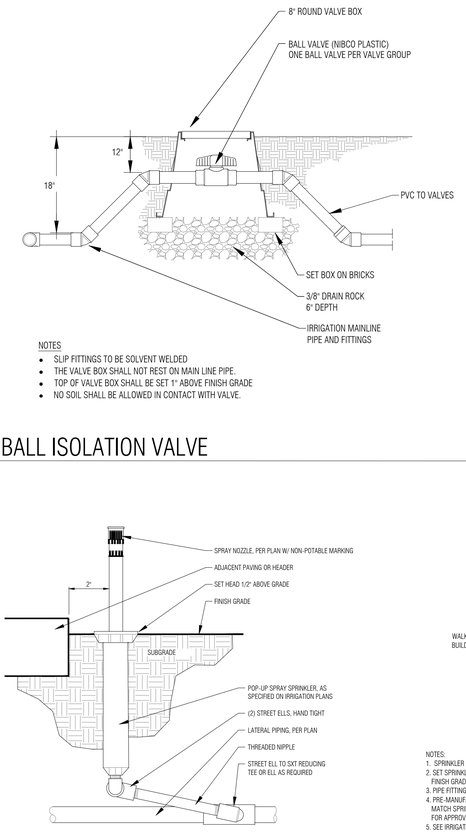
NOTES:
1. PRODUCTS AND MATERIALS SHALL BE SUPPLIED AND INSTALLED AS DESCRIBED IN THE MFG. SPEC
2. TREES SHALL BE SET SO THAT CROWN IS 1-1/2" - 2" ABOVE ADJACENT GRADE.

C L-6 ROOT BARRIER W/ IRRIGATION TYP. FOR STREET TREES



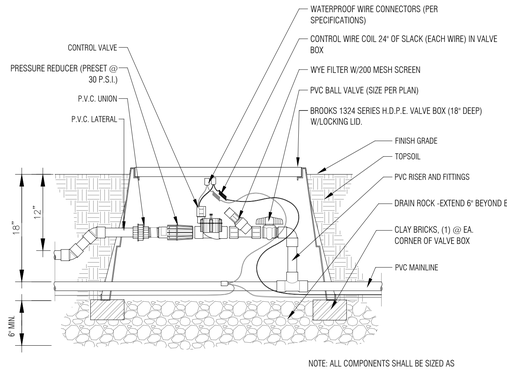
NOTE: OPERATING INSTRUCTIONS, WATERING SCHEDULE, AND REDUCED, LAMINATED PLAN TO BE POSTED INSIDE DOOR OF BOX.

D L-6 CONTROLLER- WALL MOUNT



NOTES
- SLIP FITTINGS TO BE SOLVENT WELDED
- THE VALVE BOX SHALL NOT REST ON MAIN LINE PIPE.
- TOP OF VALVE BOX SHALL BE SET 1" ABOVE FINISH GRADE
- NO SOIL SHALL BE ALLOWED IN CONTACT WITH VALVE.

E L-6 BALL ISOLATION VALVE



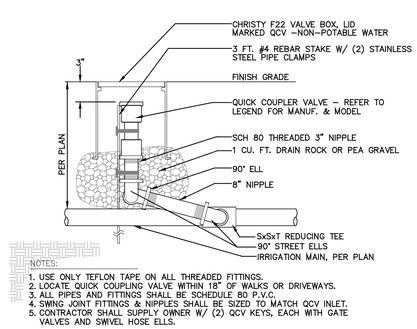
NOTE: ALL COMPONENTS SHALL BE SIZED AS RAINBIRD XERIGATION VALVE ASSEMBLY.

F L-6 DRIP IRRIGATION VALVE ASSEMBLY

IRRIGATION GENERAL NOTES

1. ALL PIPE AND EQUIPMENT (EXCEPT COPPER PIPE, CONTROLLERS, WIRE SLEEVES, AND PIPES SHOWN IN SLEEVES, SHALL BE INSTALLED IN PLANTER AREAS. SOME SHOWN IN PAVED AREAS ON PLAN FOR GRAPHIC CLARITY.
2. LOCATE IRRIGATION CONTROL VALVES (1 PER BOX) IN SHRUB BEDS, APPROXIMATELY 12"–18" FROM PAVEMENTS, WALKS, ETC.. VALVES SHALL NOT BE LOCATED IN LAWN AREAS.
3. COORDINATE PIPE SLEEVING, WIRE–PULLS AND PAVEMENT CROSS–OVERS WITH GENERAL CONTRACTOR PRIOR TO ROUGH GRADING. GENERAL CONTRACTOR SHALL STUB UP AND CAP SLEEVES 12"–18" INSIDE PLANTERS.
4. EXACT LOCATION FOR IRRIGATION CONTROLLER SHALL BE DETERMINED ON SITE BY OWNER'S REPRESENTATIVE. COORDINATE POWER SUPPLY AND WIRE SLEEVING WITH GENERAL CONTRACTOR.
5. ALL EQUIPMENT SHALL BE SUPPLIED AND INSTALLED AS DESCRIBED IN THE SPECIFICATIONS, OR AS SHOWN IN THE DETAILS.
6. CONTRACTOR SHALL INSTALL RAINBIRD 1800 PCS (PRESSURE COMPENSATING SCREENS) AS NEEDED TO REDUCE RADII OF SPRAY PATTERNS, AND TO ELIMINATE OVERSPRAY. REFER TO MANUFACTURER'S CATALOG CHART WHEN SELECTING APPROPRIATE SCREENS.
7. EXISTING TREES TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. TRENCHING BENEATH THE THE DRIPLINE OF EXISTING TREES SHALL BE AVOIDED, AND SHALL BE PERFORMED MANUALLY WHEN NECESSARY.
8. VALVE STATION ID NUMBERS ON PLAN DESIGNATE THE FOLLOWING: S = SHRUB SPRAY ZONES, L = LAWN ZONES, D = DRIP ZONES. PROGRAM CONTROLLER TO IRRIGATE ZONES IN NUMERIC ORDER SHOWN ON PLAN TO ALLOW INFILTRATION OF APPLIED WATER, AND REDUCE RUNOFF.
9. ALL PIPING AND SPRINKLERS TO BE MARKED NON–POTABLE
   ALL PIPING SHALL BE "PURPLE" PVC DESIGNATED FOR NON–POTABLE USE
   ALL IRRIGATION EQUIPMENT SHALL BE MARKED NON–POTABLE
   ALL VALVE BOXES SHALL HAVE APPROVED NON–POTABLE MARKINGS

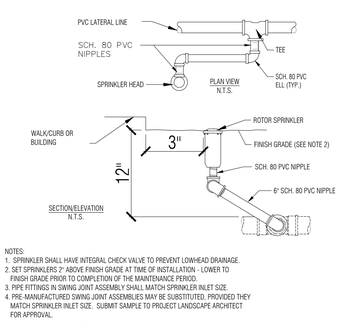
G L-6 IRRIGATION NOTES



NOTES:
1. USE ONLY TEFLON TAPE ON ALL THREADED FITTINGS.
2. LOCATE QUICK COUPLING VALVE WITHIN 18" OF WALKS OR DRIVEWAYS.
3. ALL PIPES AND FITTINGS SHALL BE SCHEDULE 80 P.V.C.
4. SWING JOINT FITTINGS & NIPPLES SHALL BE SIZED TO MATCH QCV INLET.
5. CONTRACTOR SHALL SUPPLY OWNER W/ (2) QCV KEYS, EACH WITH GATE VALVES AND SWIVEL HOSE ELLS.

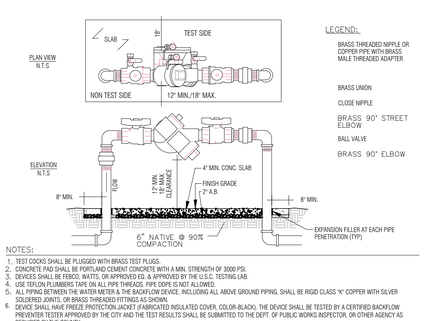
H L-6 QUICK COUPLER

I L-6 POP-UP LAWN HEAD



NOTES:
1. SPRINKLER SHALL HAVE INTEGRAL CHECK VALVE TO PREVENT LOWHEAD DRAINAGE.
2. SET SPRINKLERS 2" ABOVE FINISH GRADE AT TIME OF INSTALLATION - LOWER TO FINISH GRADE PRIOR TO COMPLETION OF THE MAINTENANCE PERIOD.
3. PIPE FITTINGS IN SWING JOINT ASSEMBLY SHALL MATCH SPRINKLER INLET SIZE.
4. PRE-MANUFACTURED SWING JOINT ASSEMBLIES MAY BE SUBSTITUTED, PROVIDED THEY MATCH SPRINKLER INLET SIZE. SUBMIT SAMPLE TO PROJECT LANDSCAPE ARCHITECT FOR APPROVAL.
5. SEE IRRIGATION LEGEND FOR MANUFACTURER / MODEL OF HEAD.

J L-6 LAWN ROTOR HEAD



LEGEND:
- BRASS THREADED NIPPLE OR COPPER PIPE WITH BRASS MALE THREADED ADAPTER
- BRASS UNION
- CLOSE NIPPLE
- BRASS 90° STREET ELBOW
- BALL VALVE
- BRASS 90° ELBOW

NOTES:
1. TEST COCKS SHALL BE PLUGGED WITH BRASS TEST PLUGS.
2. CONCRETE PAD SHALL BE PORTLAND CEMENT CONCRETE WITH A MIN. STRENGTH OF 3000 PSI.
3. DEVICES SHALL BE FEBCO, WATTS, OR APPROVED EQ. & APPROVED BY THE U.S.C. TESTING LAB.
4. USE TEFLON PLUMBERS TAPE ON ALL PIPE THREADS. PIPE DOPE IS NOT ALLOWED.
5. ALL PIPING BETWEEN THE WATER METER & THE BACKFLOW DEVICE, INCLUDING ALL ABOVE GROUND PIPING, SHALL BE RIGID CLASS 'K' COPPER WITH SILVER SOLDERED JOINTS, OR BRASS THREADED FITTINGS AS SHOWN.
6. DEVICE SHALL HAVE FREEZE PROTECTION JACKET (FABRICATED INSULATED COVER, COLOR-BLACK). THE DEVICE SHALL BE TESTED BY A CERTIFIED BACKFLOW PREVENTER TESTER APPROVED BY THE CITY AND THE TEST RESULTS SHALL BE SUBMITTED TO THE DEPT. OF PUBLIC WORKS INSPECTOR, OR OTHER AGENCY AS REQUIRED BY THE COUNTY.
7. BACKFLOW SHALL BE APPROVED AND LABLED FOR NON-POTABLE WATER

SIZING CHART

PIPE SIZE	FLOW IN G.P.M.
3/4"ø	0–10 G.P.M.
1"ø	11–16 G.P.M.
1–1/4"ø	16–24 G.P.M.
1–1/2"ø	24–34 G.P.M.
2"ø	34–52 G.P.M.
2–1/2"ø	52–70 G.P.M.

K L-6 IRRIGATION BACKFLOW PREVENTER

L L-6 PIPE SIZINF

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LICENSED LANDSCAPE ARCHITECT RONALD E. HODGES No. 1356 Ronald Hodges Signature 08/11/16 Date EXP. 1/31/17 STATE OF CALIFORNIA

• PROJECT •

SAN MATEO SHELTER

• SHEET TITLE •

IRRIGATION DETAILS

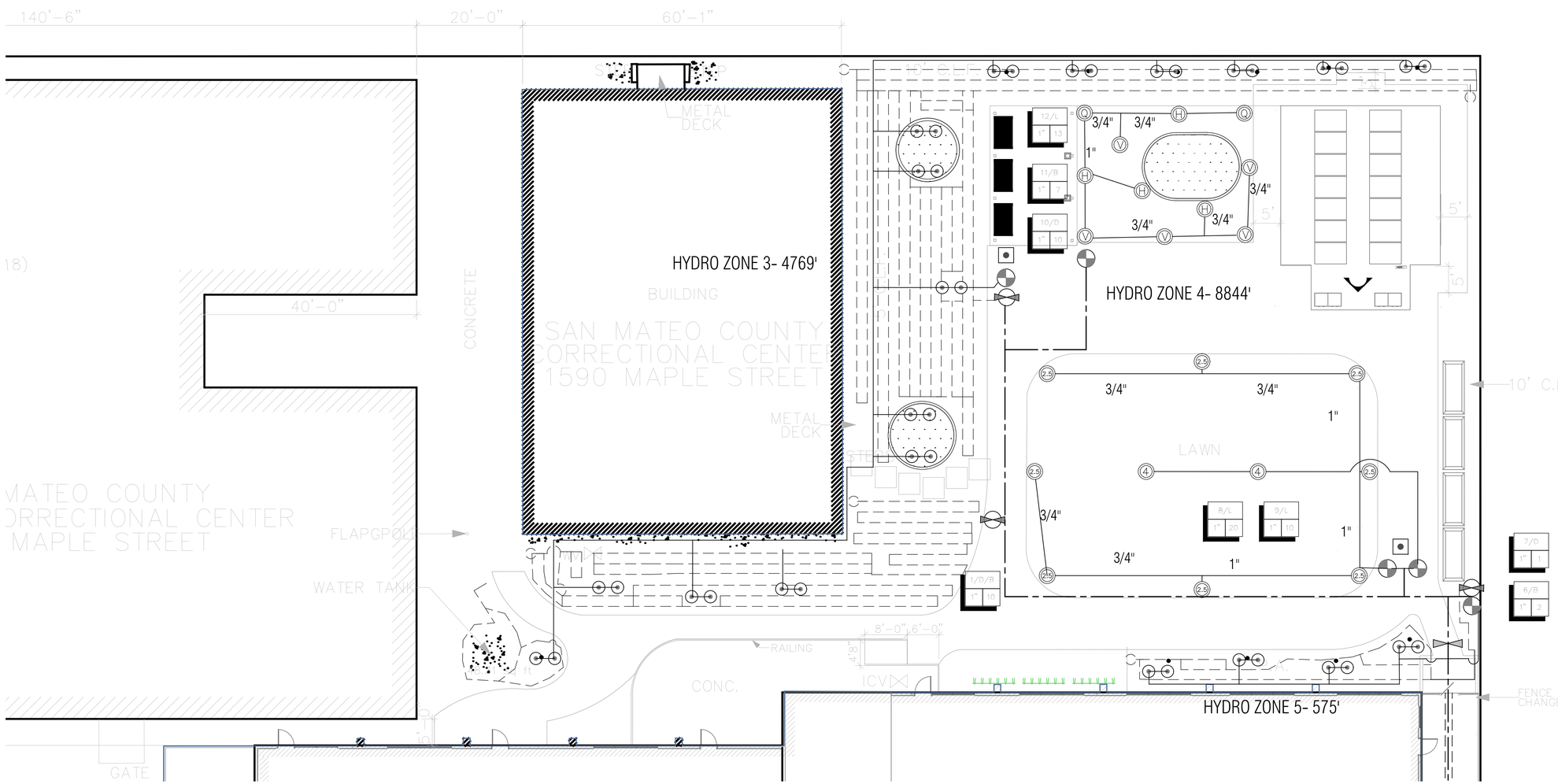
• REVISIONS •

No.	Date	Notes
1	08-11-16	REV. BASE / P.C

• JOB:

• DATE: 08/09/2016

• SHEET: L-6



IRRIGATION PLAN
NORTH
1"=10'

LEGEND

M	1" WATER METER FOR IRRIGATION SEE CIVIL PLANS
	BACKFLOW PREVENTER 1" DIA. SEE DETAIL NON-POTABLE MODEL
PR	1" WATTS PRESSURE REGULATOR SET @ 40 PSI
	REMOTE CONTROL VALVE HUNTER PGV-100G SERIES FOR TREE BUBBLERS ONLY W/ NON-POTABLE BOX COVER
MV	REMOTE CONTROL VALVE HUNTER PGV-100G SERIES FOR MASTER VALVE IN NON-POTABLE VALVE BOX
	LINE SIZE BALL ISOLATION VALVE PER DETAIL VALVES @ MAIN LINE CROSSINGS UNDER DRIVE WAYS
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V H Q P	TORO 570Z PRX-6P-COM-15-F-PC-V NON POTABLE "PURPLE" NOZZLE

V/D/B	VALVE CALL OUT D- SHRUB DRIP / B- TREE BUBBLER / L- LAWN
	HUNTER RZWS-10 - 25 = 10" Root zone watering system at 0.25 GPM (2 BUBBLERS) PER TREE SEE DETAIL
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scale 1" = 10' feet

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Signature
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STATE OF CALIFORNIA

• PROJECT •

SAN MATEO SHELTER

• SHEET TITLE •

IRRIGATIONPLAN

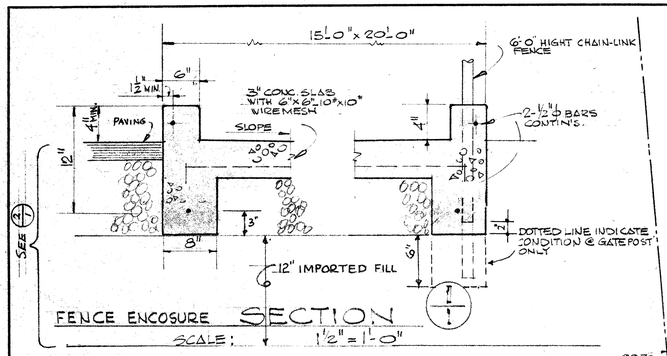
• REVISIONS •

No.	Date	Notes
1	08-11-16	REV.BASE / P.C

• JOB: SAN MATEO SHELTER

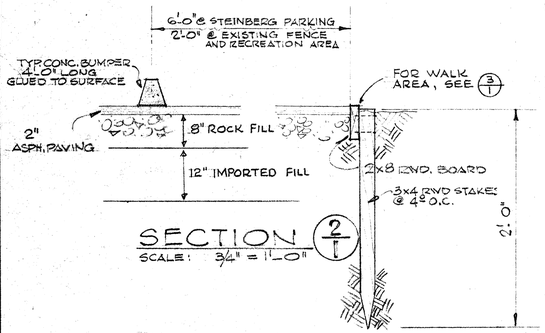
• DATE: 08-11-16

• SHEET: L-4



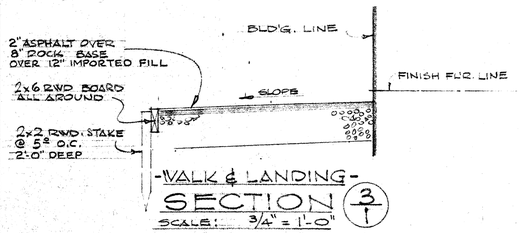
FENCE ENCOSURE SECTION

SCALE: 1'2" = 1'-0"



SECTION 2/1

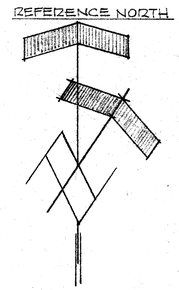
SCALE: 3/4" = 1'-0"

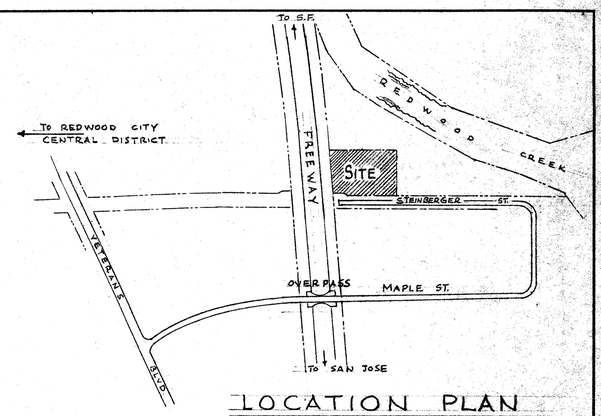


-WALK & LANDING-

SECTION 3/1

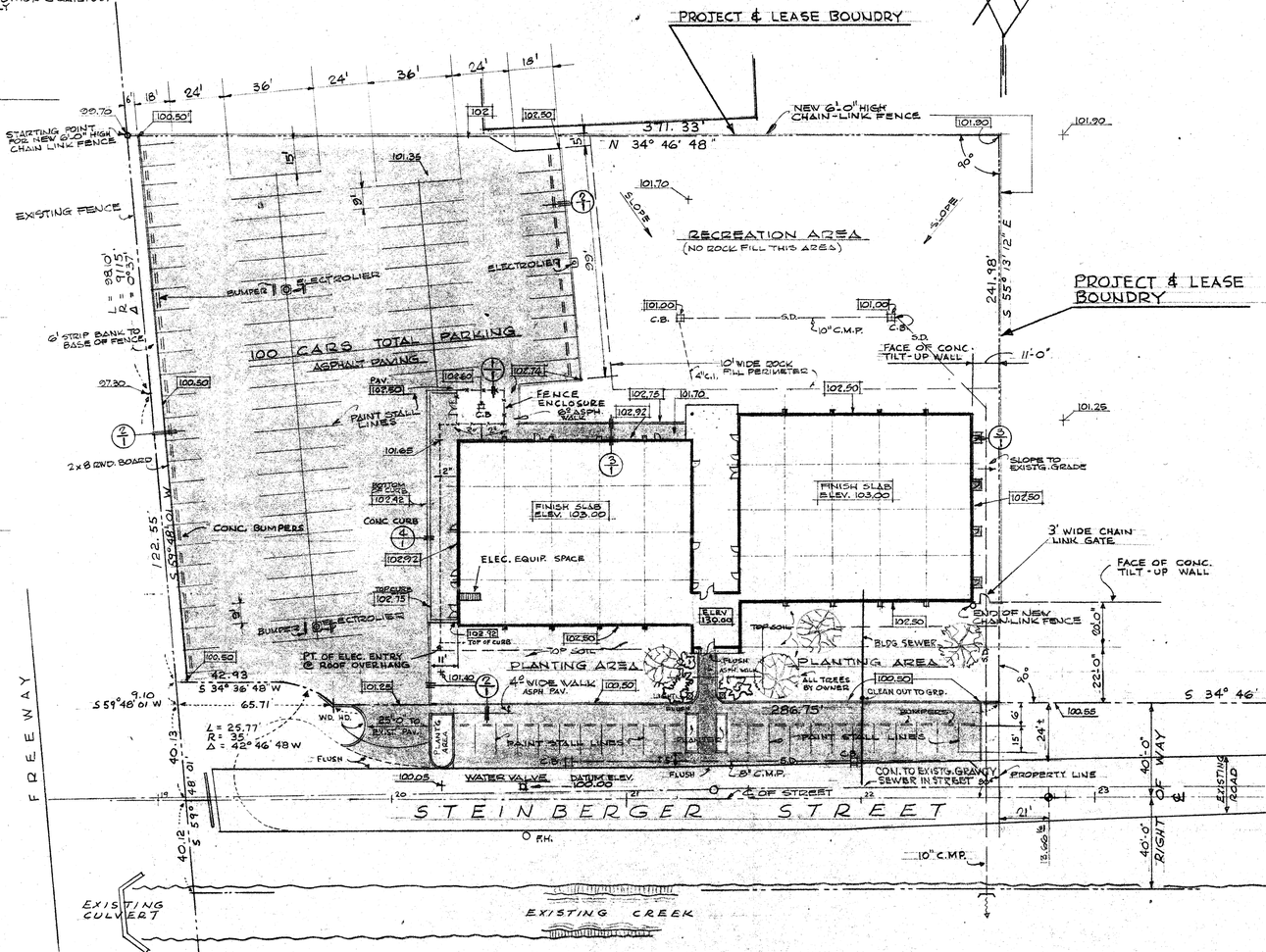
SCALE: 3/4" = 1'-0"

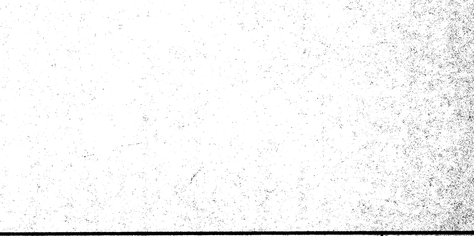




LOCATION PLAN

NO SCALE





SECTION 4/1

SCALE 3/4" = 1'-0"

PLOT PLAN

SCALE 1" = 30'

NOTE: - REMOVAL OF EXISTING UTILITIES AND SIGN ON PREMISES SHALL BE BY OWNER.

= CHAIN-LINK FENCE

101.25 = EXISTING ELEVATION

102.42 = FINISH GRADE ELEV.

S.D. = STORM DRAIN
C.B. = CATCH BASIN
C.M.P. = CORRUGATED METAL PIPING
C.I. = CAST-IRON

SHEET INDEX

	ARCHITECTURAL AND STRUCTURAL
1	PLOT PLAN
2	FOUNDATION PLAN AND DETAILS
3	ROOF PLAN, ROOF FRAMING AND DETAILS
4	EXTERIOR ELEVATIONS
5	TYPICAL CROSS SECTIONS & TRUSS DETAIL
6	FLOOR PLAN
7	INTER. ELEV'S., DOOR TYPES & DOOR SCHEDULES, DTL'S.
8	CONCRETE WALL PANELS AND DETAILS
9	FOUNDATION DETAILS
	ELECTRICAL
10	ELECTRICAL PLAN AND DETAILS
11	PARKING LIGHTING AND SCHEDULES
	PLUMBING AND HEATING
12	PLUMBING & HEATING PLAN, SYMBOLS SCHEDULE
13	RISER DIAGRAMS, DETAILS

Yours Gray — CHAIRMAN, BOARD OF SUPERVISORS
COUNTY MANAGER
DIRECTOR, BUILDING CONSTRUCTION

DEPARTMENT HEAD
ARCHITECT

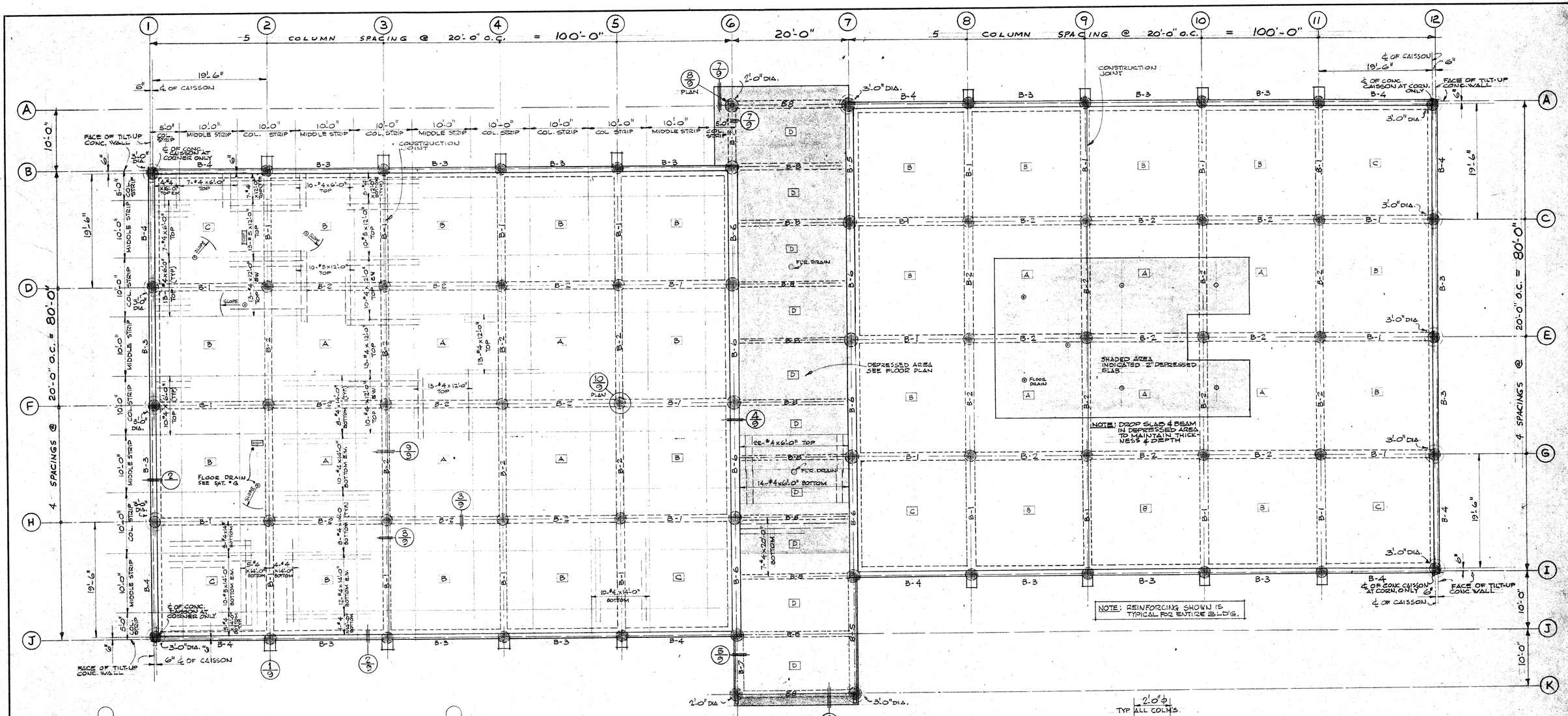
DATE APRIL 5 1966
DRAWN M.J.K & W.G.M.
CHECKED TCW
REVISED
JOB NUMBER 5470 A

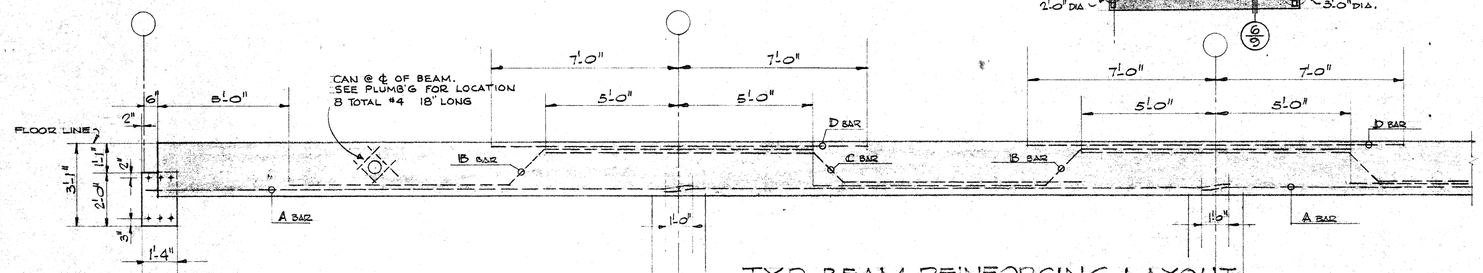
COUNTY OF SAN MATEO
DEPARTMENT OF BUILDING CONSTRUCTION AND GENERAL SERVICES
ARCHITECTURAL AND ENGINEERING DIVISION
COUNTY CENTER, REDWOOD CITY, TELEPHONE 369-1441, EXT. 444

SAN MATEO COUNTY
WORK FURLOUGH FACILITY
REDWOOD CITY CALIFORNIA

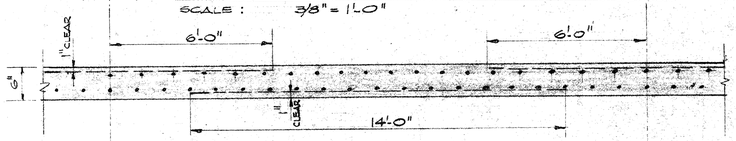
PLOT PLAN

SHEET 1 OF 13 SHEETS

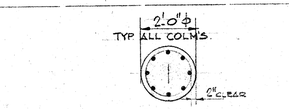




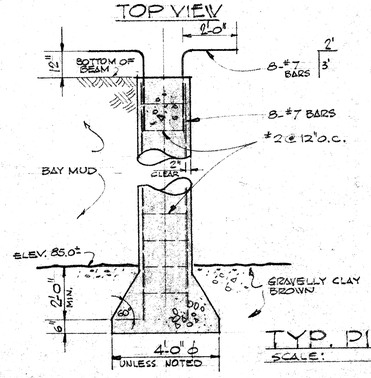
TYP. BEAM REINFORCING LAYOUT
SCALE: 3/8" = 1'-0"



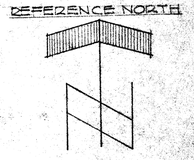
TYPICAL SLAB SECTION
NOT TO SCALE



TOP VIEW



TYP. PILE SECT.
SCALE: 3/8" = 1'-0"



BEAM SCHEDULE

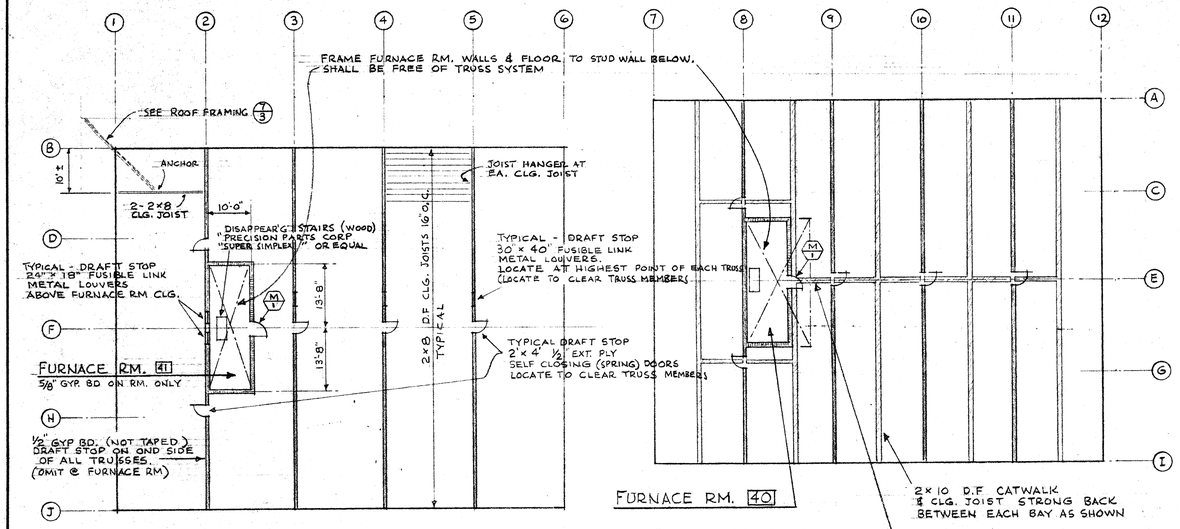
BEAM	DEPTH	WIDTH	A BARS	B BARS	C BARS	D BARS	REMARKS
B-1	24"	12"	2-#7	1-#6		2-#7	STIRRUPS #3 @ 24
B-2	24"	12"	1-#6	1-#6	1-#6	2-#6	" " "
B-3	24"	16"	1-#4	1-#6	1-#6	1-#6	" " "
B-4	24"	16"	2-#7	1-#6		2-#6	" " "
B-5	24"	28"	2-#7	1-#6		2-#7	" " "
B-6	24"	28"	1-#7	1-#6	1-#6	2-#6	" " "
B-7	24	16"	2-#6	1-#6			" " "
B-8	24"	12"	2-#7	1-#6		2-#7	" " "

CHAIRMAN, BOARD OF SUPERVISORS	DEPARTMENT HEAD	DATE APRIL 5-1966	COUNTY OF SAN MATEO
COUNTY MANAGER	ARCHITECT	DRAWN M.J.K. & W.G.M.	DEPARTMENT OF BUILDING CONSTRUCTION AND GENERAL SERVICES
DIRECTOR, BUILDING CONSTRUCTION	ENGINEER	CHECKED RHW	ARCHITECTURAL AND ENGINEERING DIVISION
		REVISED	COUNTY CENTER, REDWOOD CITY, TELEPHONE 369-1441, EXT. 444
		JOB NUMBER 5470 A	

SAN MATEO COUNTY WORK FURLOUGH FACILITY
REDWOOD CITY CALIFORNIA

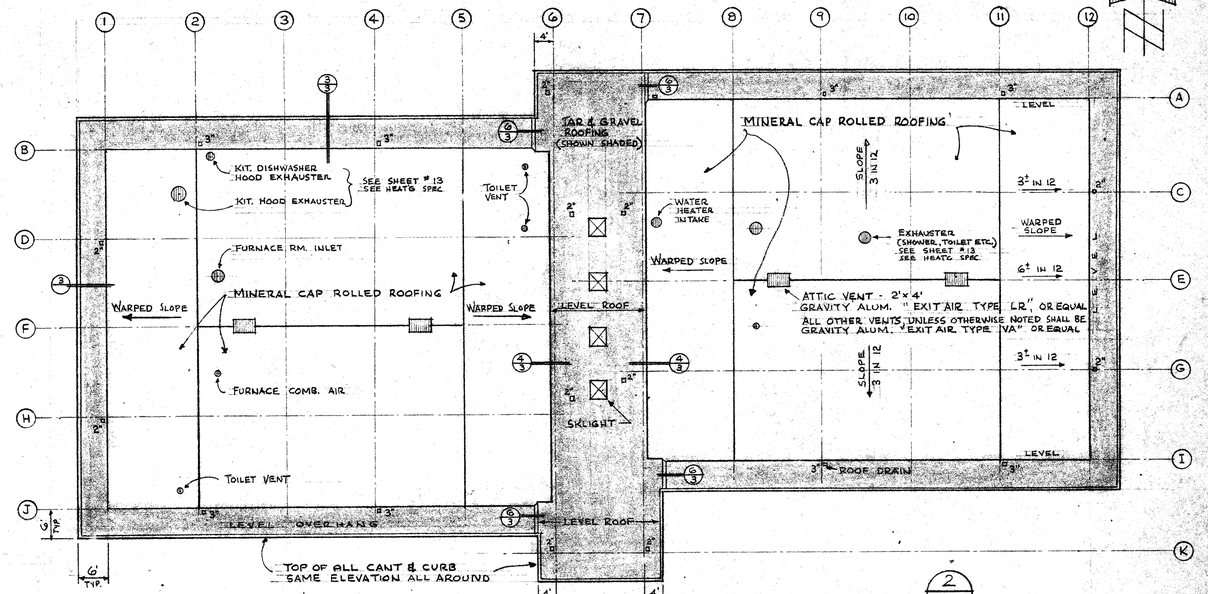
FOUNDATION PLAN CONC. BEAM, SLAB AND PILE DETAILS

SHEET 2 OF 13 SHEETS



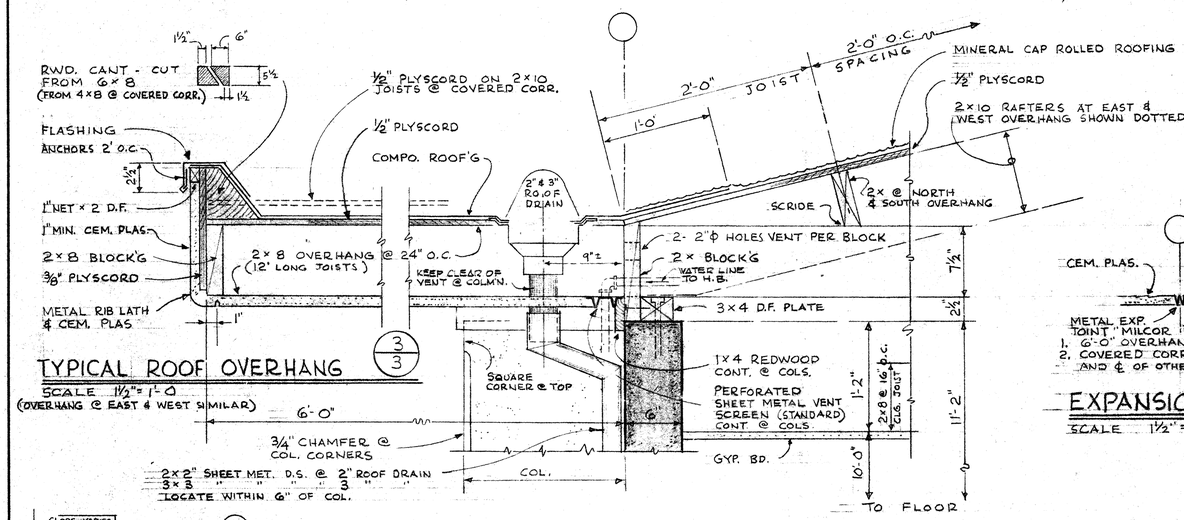
ATTIC PLAN 1/3

SCALE 1/16" = 1'-0"



ROOF PLAN 2/3

SCALE 1/16" = 1'-0"

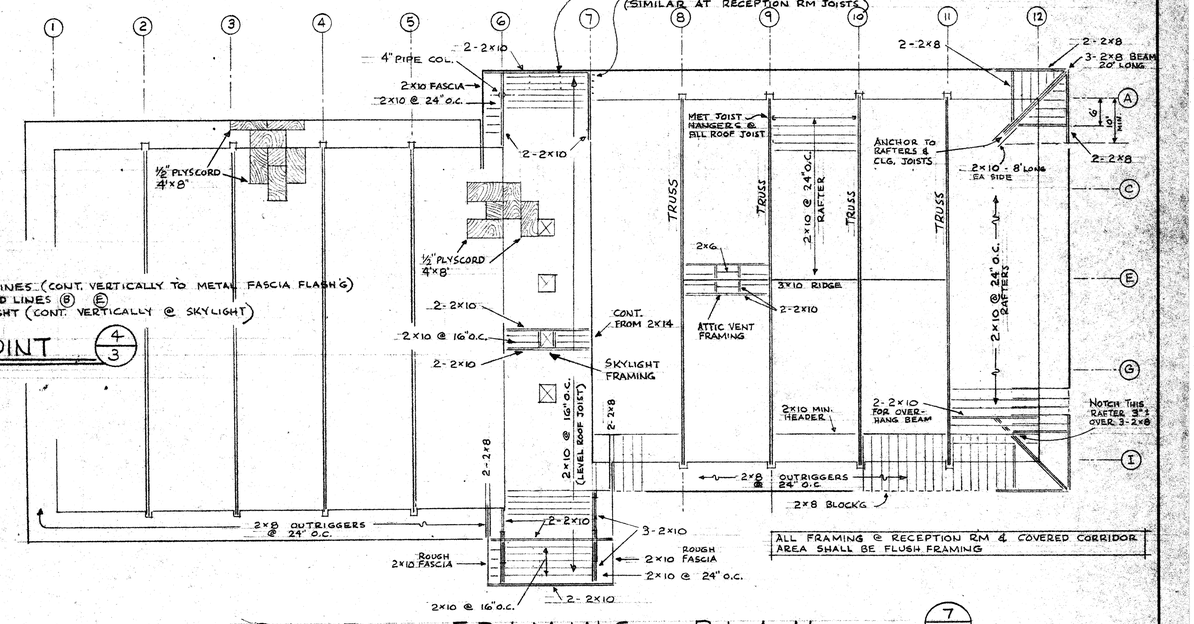


TYPICAL ROOF OVERHANG 3/3

SCALE 1 1/2" = 1'-0" (OVERHANG @ EAST & WEST SIMILAR)

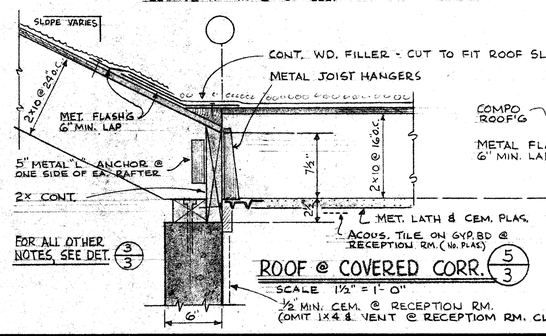
EXPANSION JOINT 4/3

SCALE 1 1/2" = 1'-0"



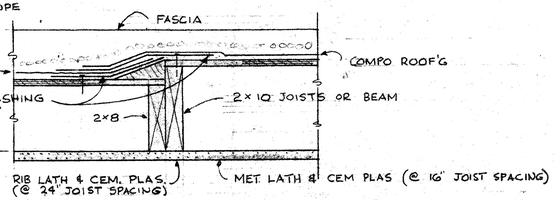
ROOF FRAMING PLAN 7/3

SCALE 1/16" = 1'-0"



ROOF @ COVERED CORR. 5/3

SCALE 1 1/2" = 1'-0"



OVERHANG @ COVERED CORR. 6/3

SCALE 1 1/2" = 1'-0"

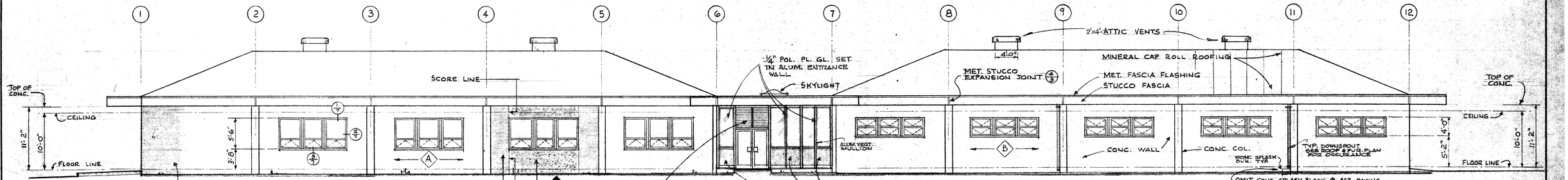
CHAIRMAN, BOARD OF SUPERVISORS	DEPARTMENT HEAD / ARCHITECT	DATE	APRIL 5, 1966
COUNTY MANAGER		DRAWN	MK
DIRECTOR, BUILDING CONSTRUCTION		CHECKED	TCW
		REVISED	
		JOB NUMBER	5470 A

COUNTY OF SAN MATEO
DEPARTMENT OF BUILDING CONSTRUCTION AND GENERAL SERVICES
ARCHITECTURAL AND ENGINEERING DIVISION
COUNTY CENTER, REDWOOD CITY, TELEPHONE 369-1441, EXT. 444

SAN MATEO COUNTY
WORK FURLOUGH FACILITY
REDWOOD CITY CALIFORNIA

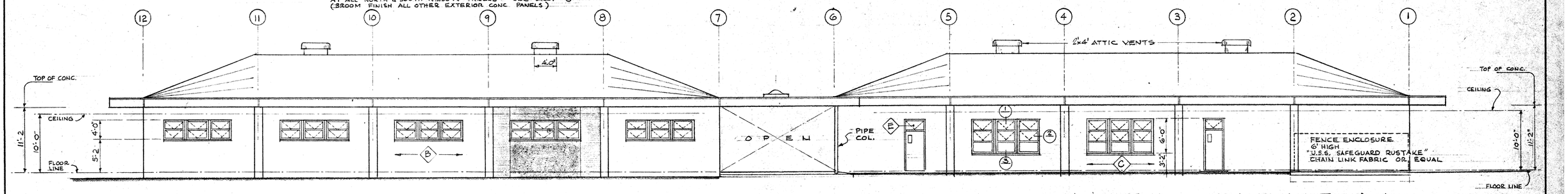
ROOF PLAN
ROOF FRAMING AND DETAILS

SHEET 3 OF 13 SHEETS



SOUTH ELEVATION

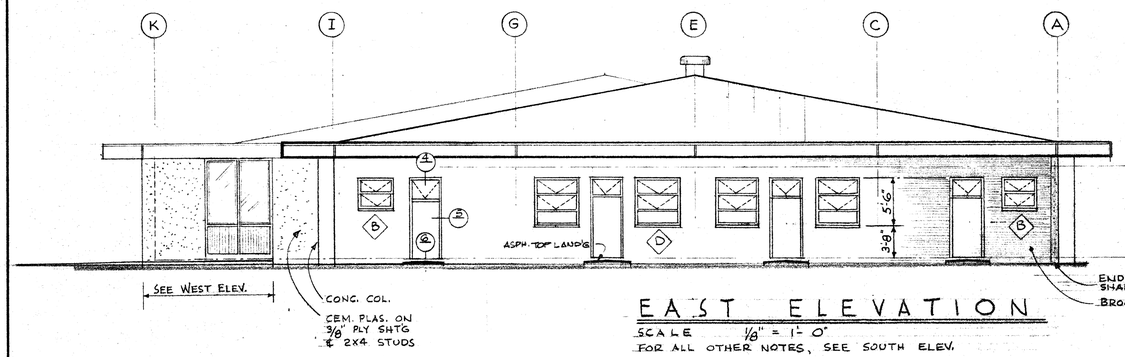
SCALE ⅛" = 1'-0"



NORTH ELEVATION

SCALE ⅛" = 1'-0"

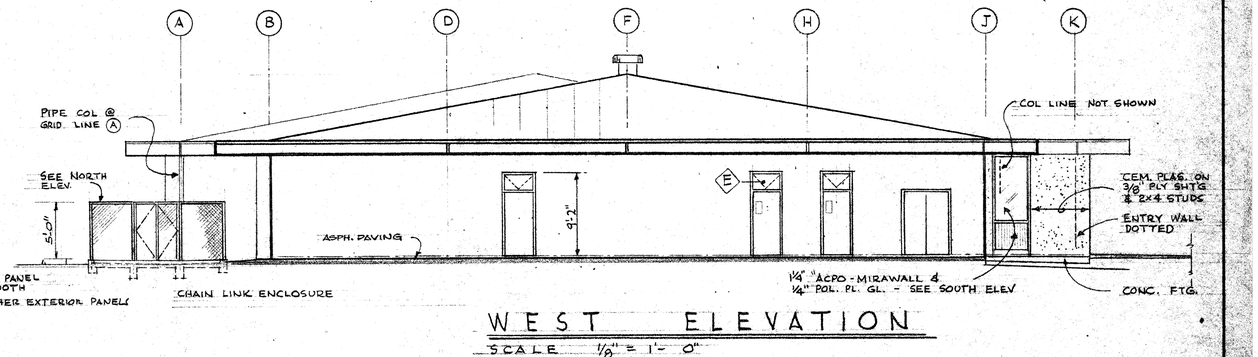
FOR ALL OTHER NOTES, SEE SOUTH ELEV.



EAST ELEVATION

SCALE ⅛" = 1'-0"

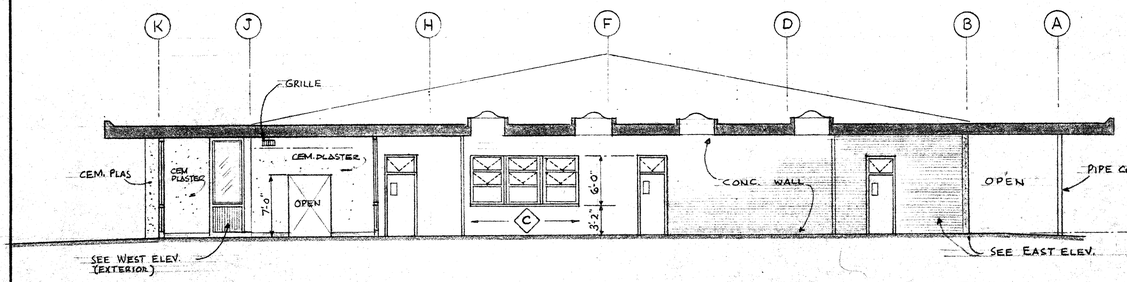
FOR ALL OTHER NOTES, SEE SOUTH ELEV.



WEST ELEVATION

SCALE ⅛" = 1'-0"

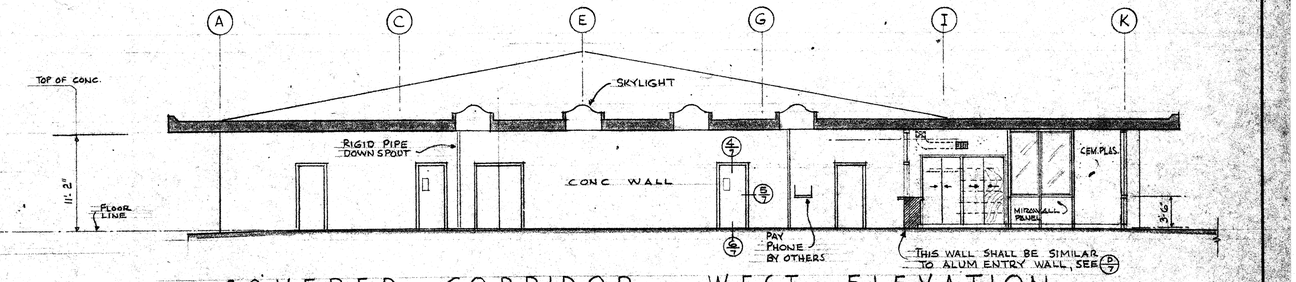
FOR ALL OTHER NOTES, SEE SOUTH ELEV.



COVERED CORRIDOR - EAST ELEVATION

SCALE ⅛" = 1'-0"

FOR ALL OTHER NOTES SEE SOUTH ELEV.



COVERED CORRIDOR - WEST ELEVATION

SCALE ⅛" = 1'-0"

FOR ALL OTHER NOTES, SEE SOUTH ELEV.

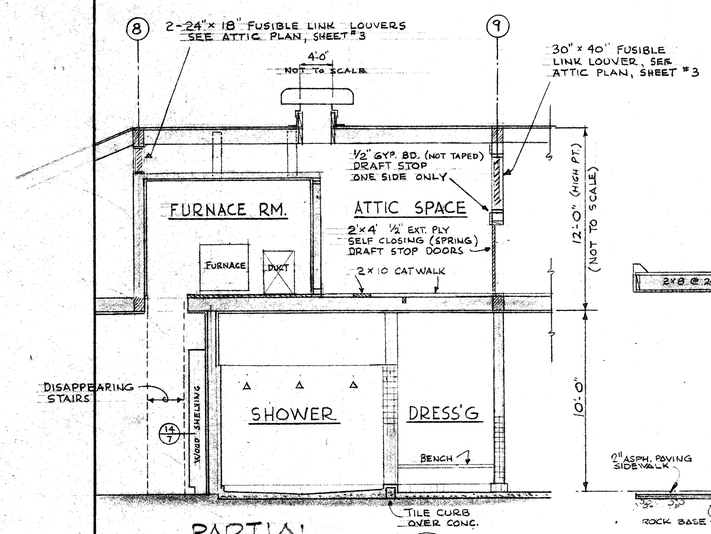
CHAIRMAN, BOARD OF SUPERVISORS	DEPARTMENT HEAD	DATE	APRIL 5, 1966
COUNTY MANAGER	ARCHITECT	DRAWN	MK
DIRECTOR, BUILDING CONSTRUCTION		CHECKED	TCW
		REVISED	
		JOB NUMBER	5470 A

COUNTY OF SAN MATEO
DEPARTMENT OF BUILDING CONSTRUCTION AND GENERAL SERVICES
ARCHITECTURAL AND ENGINEERING DIVISION
COUNTY CENTER, REDWOOD CITY, TELEPHONE 369-1441, EXT. 444

SAN MATEO COUNTY
WORK FURLOUGH FACILITY
REDWOOD CITY CALIFORNIA

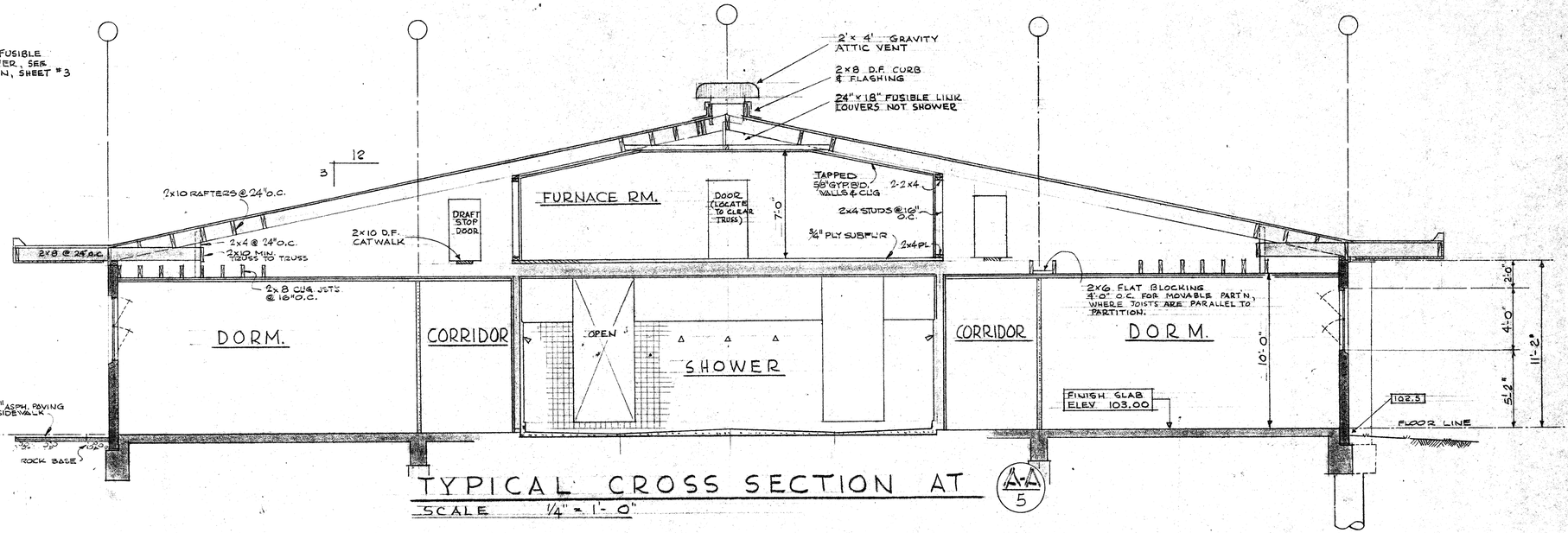
EXTERIOR ELEVATIONS

SHEET 4 OF 13 SHEETS



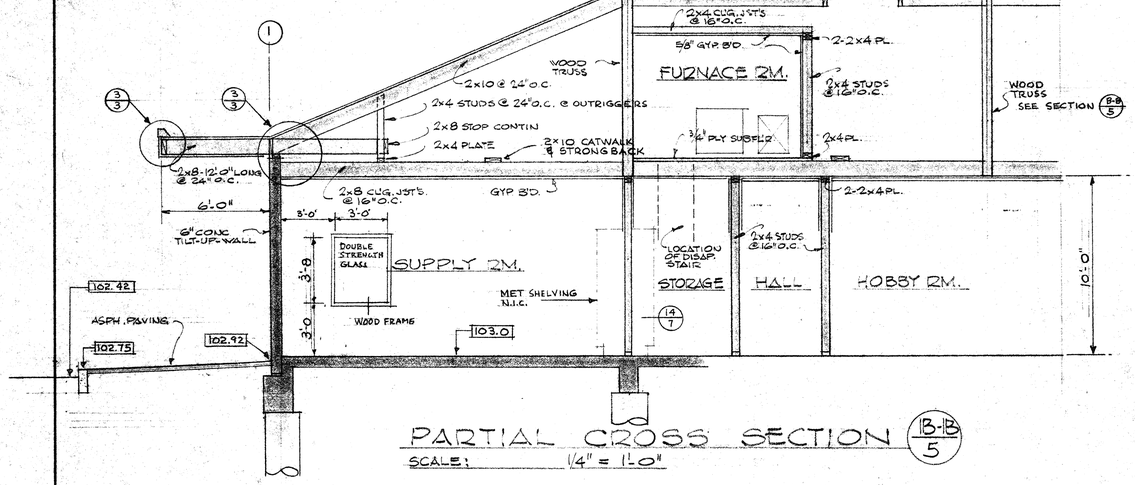
PARTIAL SECTION (B-B / 5)

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



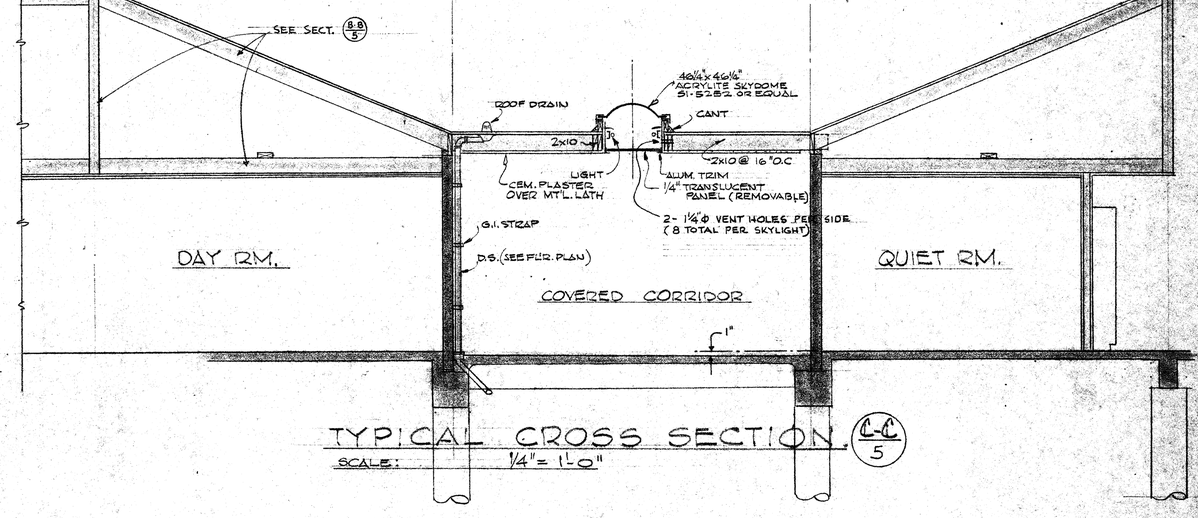
TYPICAL CROSS SECTION AT (A-A / 5)

SCALE 1/4" = 1'-0"



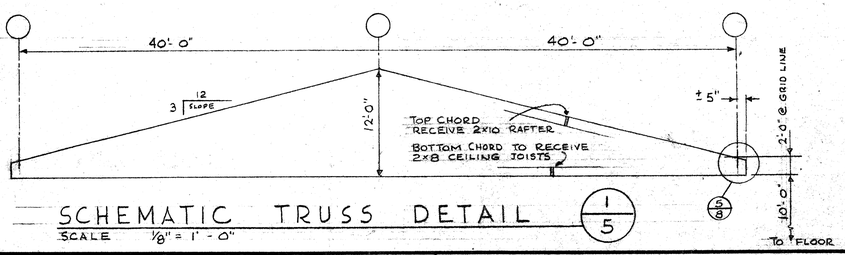
PARTIAL CROSS SECTION (B-B / 5)

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



TYPICAL CROSS SECTION (C-C / 5)

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



SCHEMATIC TRUSS DETAIL (1 / 5)

SCALE 1/8" = 1'-0"

CHAIRMAN, BOARD OF SUPERVISORS

COUNTY MANAGER

DIRECTOR, BUILDING CONSTRUCTION

DEPARTMENT HEAD

ARCHITECT

DATE APRIL 5-1966

DRAWN M.J.K.

CHECKED T.C.W.

REVISED

JOB NUMBER 5470 A

COUNTY OF SAN MATEO

DEPARTMENT OF BUILDING CONSTRUCTION AND GENERAL SERVICES

ARCHITECTURAL AND ENGINEERING DIVISION

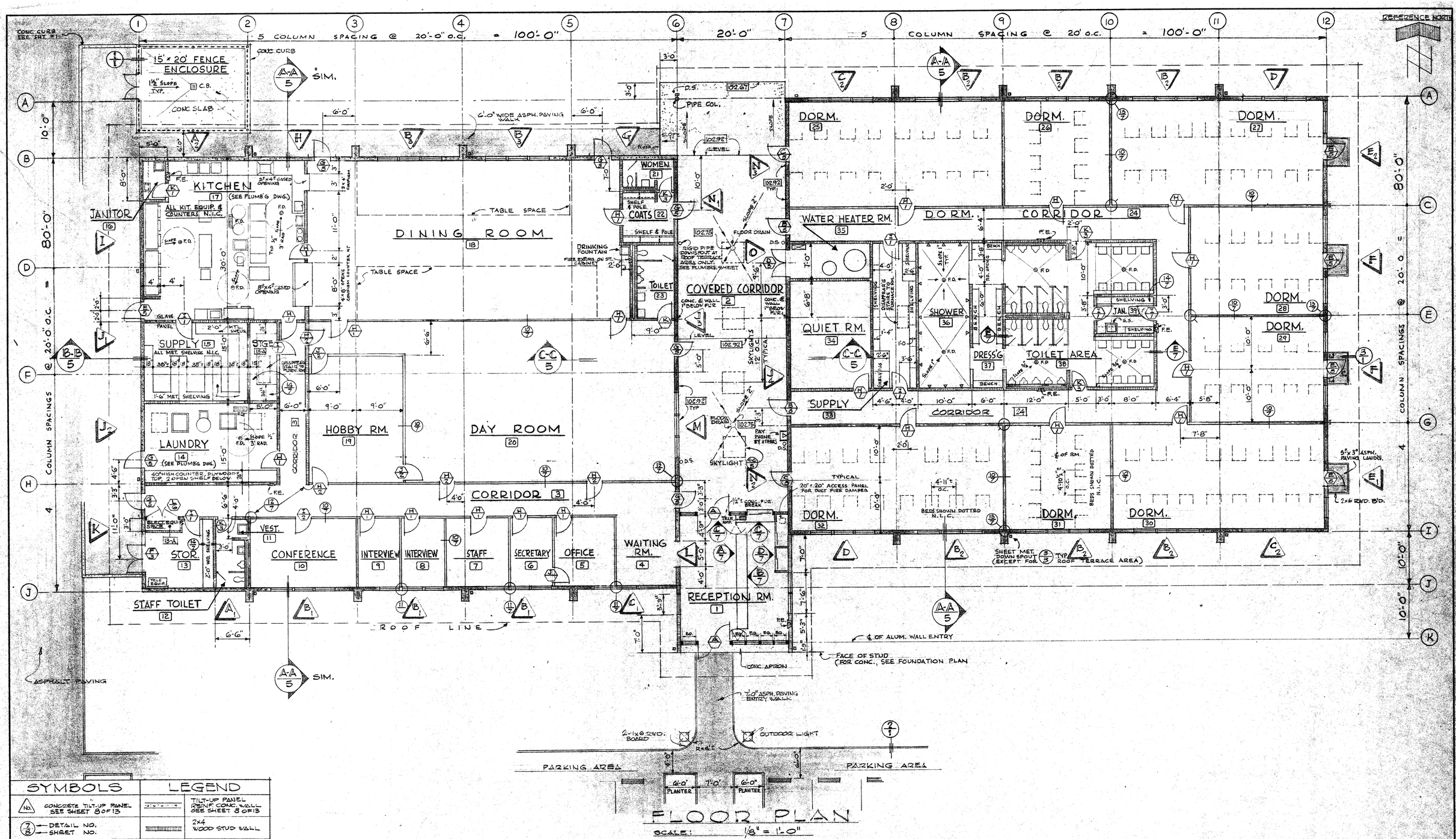
COUNTY CENTER, REDWOOD CITY, TELEPHONE 369-1441, EXT. 444

SAN MATEO COUNTY WORK FURLOUGH FACILITY

REDWOOD CITY CALIFORNIA

CROSS SECTIONS TRUSS DETAIL

SHEET 5 OF 13 SHEETS



FLOOR PLAN

SCALE: 1/8" = 1'-0"

SYMBOLS	LEGEND
No. CONCRETE TILT-UP PANEL SEE SHEET 8 OF 13	TILT-UP PANEL REINF. CONC. WALL SEE SHEET 8 OF 13
7/8 — DETAIL NO. / SHEET NO.	2x4 WOOD STUD WALL
C/7 — INTER. ELEVATION / SHEET NO.	PLASTIC FINISH GYPSUM MOVABLE PARTITION
A-A/5 — BUILDING SECTION / SHEET NO.	
H/1 — DOOR TYPE / HARDWARE GROUP	

CHAIRMAN, BOARD OF SUPERVISORS

COUNTY MANAGER

DIRECTOR, BUILDING CONSTRUCTION

DEPARTMENT HEAD

ARCHITECT

DATE	APRIL 5, 1966
DRAWN	M.K. & W.M.
CHECKED	TCW
REVISED	
JOB NUMBER	5470 A

COUNTY OF SAN MATEO

DEPARTMENT OF BUILDING CONSTRUCTION AND GENERAL SERVICES

ARCHITECTURAL AND ENGINEERING DIVISION

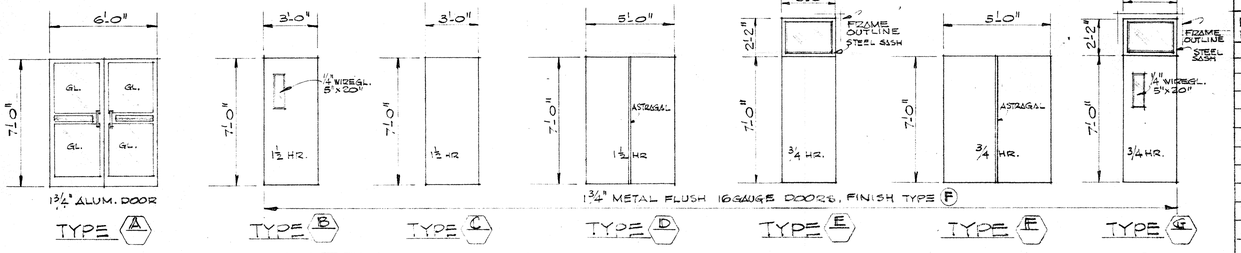
COUNTY CENTER, REDWOOD CITY, TELEPHONE 369-1441, EXT. 444

SAN MATEO COUNTY WORK FURLOUGH FACILITY

REDWOOD CITY CALIFORNIA

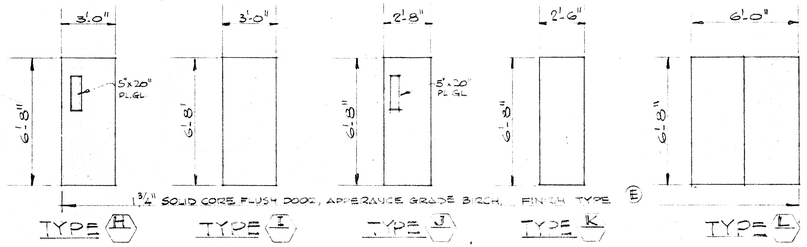
FLOOR PLAN

SHEET 6 OF 13 SHEETS



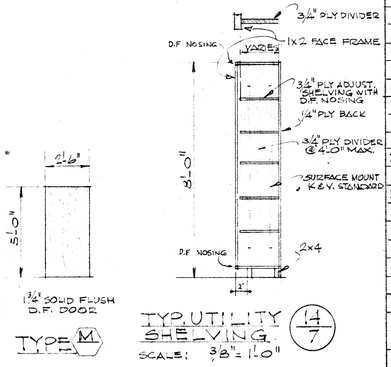
EXTERIOR METAL DOOR

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



INTERIOR WOOD DOOR

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

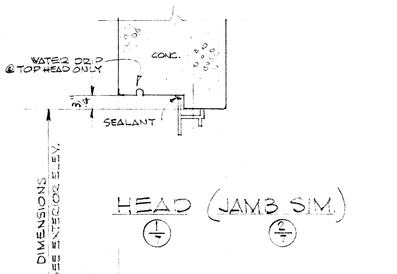


ROOM FINISH SCHEDULE

ROOM NO.	FLOORS MAT.	FIN.	WALLS MAT.	FIN.	CEILING MAT.	FIN.	BASE MAT.	FIN.	WAINSCOT MAT.	FIN.	CASEWORK MAT.	FIN.	REMARKS
1	ASPH.TILE		CONC.	A	ACOUS.TILE O/GYP.BD.		RUBBER				BIRCH	E	
2	BROOM FINISH		"	A	CEM.PLAS.								
3	ASPH.TILE		VARIES	A-B-C	ACOUST.TILE O/GYP.BD.		RUBBER						
4	" "		"	A&C	" "		"						
5	" "		"	A&C	" "		"						
6-7	" "		"	" "	" "		"						
8-9	" "		"	" "	" "		"						
10	" "		"	" "	" "		"						
11-12	" "		CONC. & GYP.BD.	A&B	½" GYP.BD.	B	"						
13-13A	" "		" "	A	½" GYP. B'D.		WOOD	D			D.F.SHELVG	G	
14	CONC.	EXPOSED	" "	A&B	½" GYP. B'D WATER-RES.	B	WOOD	D			" "	G	
15-15A	"	"	" "	A&B	½" GYP. B'D.	A	"	"			" "	G	METAL SHELVING N.I.C.
16	"	"	" "	A&B	" "	B	"	"					
17	"	"	" "	A&B	½" GYP. B'D. WATER-RES.	B	RUBBER						
18	ASPH.TILE		VARIES	A-B-C	ACOUSTIC TILE O/GYP. B'D.		"						
19	" "		GYP. BOARD	A&C	ACOUST.TILE O/GYP. B'D.		"						
20	" "		VARIES	A-B-C	" "		"						
21-23	" "		CONC. & GYP. B'D.	A&B	½" GYP. B'D.	B	"		4'0 CER.TILE @ ALL WALL	GLAZED			
22	" "		"	A&B	ACOUST. TILE O GYP. B'D.	A	"				D.F.SHELVG	D	
24	" "		GYP. B'D.	A&C	" "		"						
25-26-27	" "		CONC. & GYP.BD	" "	" "		"						
28-29	" "		" "	" "	" "		"						
30-31-32	" "		" "	" "	" "		"						
33	" "		5/8" GYP B'D.	B	½" GYP. B'D.	B	WOOD	D			D.F.SHELVG	G	
34	ASPH.TILE		CONC. & GYP.BD	A-B	ACOUST. TILE O/GYP.BD.		RUBBER						
35	CONC.		" "	A-B	½" GYP. B'D.	B	WOOD	D					
36	CER. TILE		½" GYP. B'D. WATER-RES.	B	½" GYP. B'D. WATER-RES.	B	CER. TILE		7'0 CER. TILE @ ALL WALL	GLAZED			
37	" "		" "	B	" "	B	" "				BENCHES	E	
38	" "		" "	B	" "	B	CER. TILE		4'0 CER. TILE @ ALL WALL	GLAZED			
39	ASPH. TILE		5/8" GYP. B'D.	B	½" GYP. B'D.	B	WOOD	D			D.F.SHELVG	D	
40-41	¾" PLY	NONE	" " "	NONE	5/8" " "	NONE							

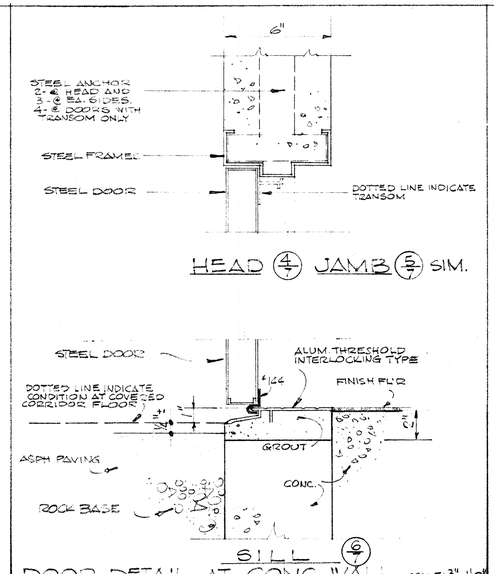
SCHEDULE OF FINISHES

- (A) CONCRETE & CEMENT PLASTER SURFACE
- (B) GYPSUM BOARD
- (C) MOVABLE PARTITION PRE-FINISHED
- (D) WOOD TRIM
- (E) WOOD DOORS
- (F) METAL DOORS
- (G) UTILITY SHELVING



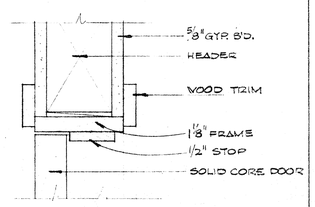
WINDOW DETAILS

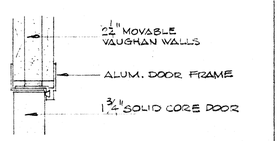
SCALE: 3" = 1'-0"

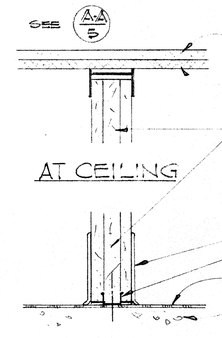


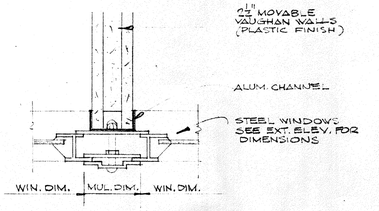
DOOR DETAIL AT CONC. WALL

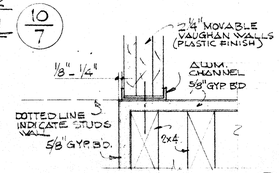
SCALE: 3"=1'-0"

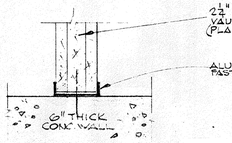






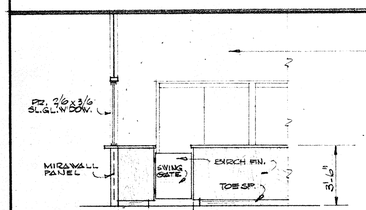


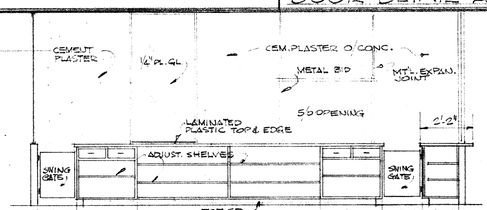


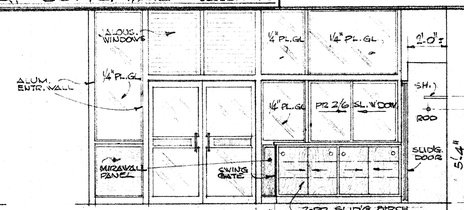


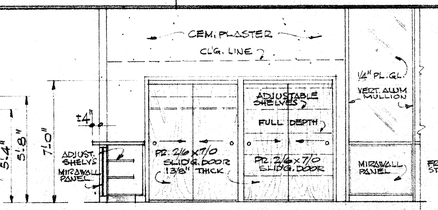
MOVABLE PARTITION DETAILS

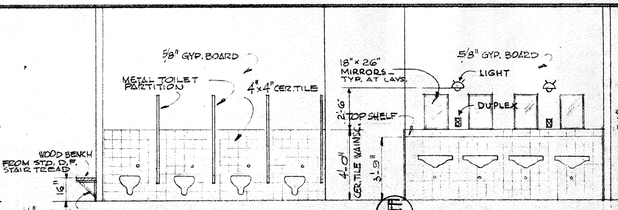
SCALE: 3"=1'-0"











INTERIOR ELEVATIONS

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

CHAIRMAN, BOARD OF SUPERVISORS	DEPARTMENT HEAD Thomas E. Thurston	DATE	APRIL 5, 1966
COUNTY MANAGER	ARCHITECT	DRAWN	W.G.M.
Murray Bramwell DIRECTOR, BUILDING CONSTRUCTION		CHECKED	TCW
		REVISED	
		JOB NUMBER	5470 A

COUNTY OF SAN MATEO
DEPARTMENT OF BUILDING CONSTRUCTION AND GENERAL SERVICES
ARCHITECTURAL AND ENGINEERING DIVISION
COUNTY CENTER, REDWOOD CITY, TELEPHONE 369-1441, EXT. 444

SAN MATEO COUNTY
WORK FURLOUGH FACILITY
REDWOOD CITY CALIFORNIA

INTERIOR ELEVATIONS
DOOR TYPES & ROOM FIN. SCHEDULE
WINDOW, DOOR, & WALL DETAILS

SHEET 7 OF 13 SHEETS

TYPICAL #4 BARS @ 12" O.C. BOTH WAYS

FLOOR LINE

WALL TIES & FLR. TIES SEE PANEL (1)

OPP. HD.

BROOM FINISH

ALL EXPOSED EDGE SHALL BE SMOOTH FINISH

SCORE JOINTS AT WIDOW ONLY

SMOOTH TROWEL FIN.

TYP. WINDOW PANEL FINISH AT NORTH & SOUTH WALLS

SMOOTH TROWEL FINISH

TYPICAL BROOM FINISH FOR ALL EXT. PANELS AS DIRECTED

2-#4 BAR 24" LONG @ 3½" O.C. (TYPICAL FOR ALL WDW. CORNERS)

WINDOW OPENING

THIS APPLY FOR ALL HORIZ. BARS

2-#4 VERT. BARS, MIN. (FULL HIGHT) BETWEEN DOOR & WINDOW.

CLEAR FOR ALL HORIZ. BAR

OPP. HAND

NOTE: SHADED AREA INDICATED SMOOTH CONCRETE FINISH, ALL OTHER EXTERIOR CONCRETE PANELS SHALL BE BROOM FINISH, AS DIRECTED

WALL TIES

FLOOR TIES

TYPICAL DIMENSIONS UNLESS NOTED

2-#4 BAR 24" LONG @ 3½" O.C. (TYPICAL FOR ALL TOP CORNERS OF DOOR)

FLOOR LINE

SAME AS PANEL (1) FOR FLR. TIES

OMIT RIGHT FLR. TIES

OMIT CENTER FLR. TIES

WALL TOP (1/8) SCALE 1" = 1'-0"

WALL BASE (2/8)

EAST-WEST WALL CONN. ELEV. (3/8) SCALE 1" = 1'-0"

EAST-WEST WALL CONN. PLAN (4/8) 1" = 1'-0"

COLUMN ELEV. (5/8) SCALE 1" = 1'-0" AT NORTH-SOUTH WALLS

COLUMN PLAN @ TRUSS (6/8) SCALE 1" = 1'-0"

COLUMN PLAN BELOW TRUSS (7/8)

WALL JOINT PLAN (8/8) SCALE 3" = 1'-0" (ARCHITECTURAL DETAIL)

WALL CORNER CONN. (9/8) SCALE 1" = 1'-0"

WALL CORNER JOINT (10/8) SCALE 1" = 1'-0" (ARCHITECTURAL DETAIL)

NOTE:

CONTRACTOR WILL PROVIDE & APPROVED SYSTEM FOR PICK UP POINT LOCATIONS & LIFTING METHOD, WHICH SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE PANELS ARE POURED.

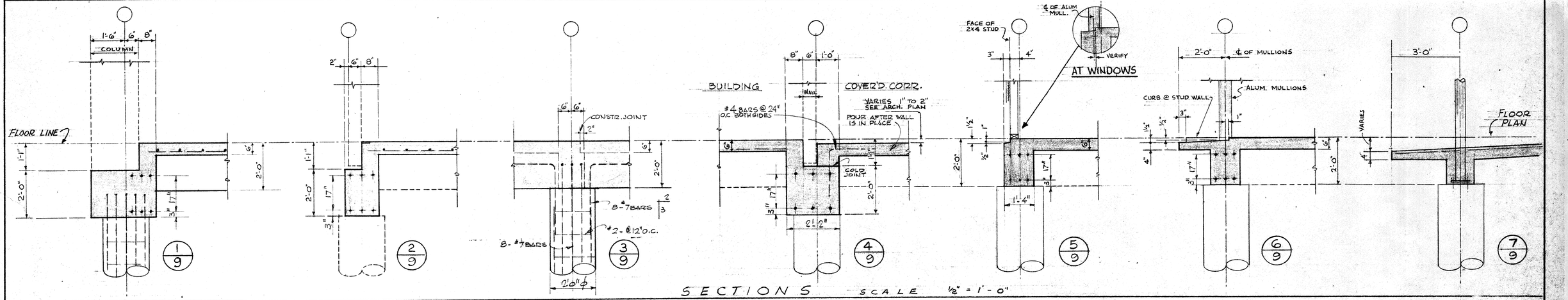
CHAIRMAN, BOARD OF SUPERVISORS	DEPARTMENT HEAD	DATE	APRIL 5, 1966
COUNTY MANAGER	ARCHITECT	DRAWN	M. J. K.
DIRECTOR, BUILDING CONSTRUCTION		CHECKED	
		REVISED	
		JOB NUMBER	5470 A

COUNTY OF SAN MATEO
DEPARTMENT OF BUILDING CONSTRUCTION AND GENERAL SERVICES
ARCHITECTURAL AND ENGINEERING DIVISION
COUNTY CENTER, REDWOOD CITY, TELEPHONE 369-1441, EXT. 444

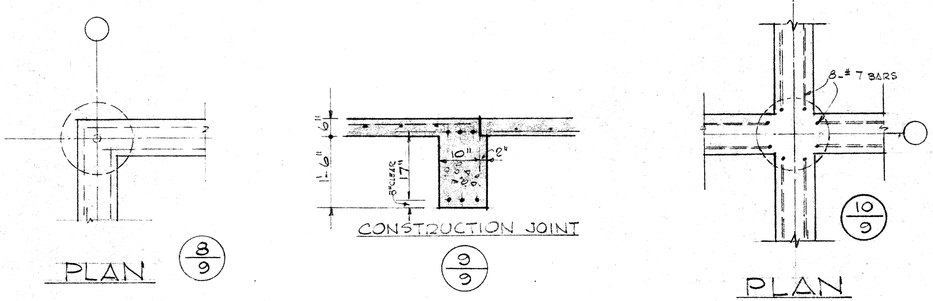
SAN MATEO COUNTY
WORK FURLOUGH FACILITY
REDWOOD CITY CALIFORNIA

CONCRETE WALL PANELS AND DETAILS

SHEET 8 OF 13 SHEETS



SECTIONS SCALE 1/2" = 1'-0"



DETAILS SCALE 1/2" = 1'-0"

CHAIRMAN, BOARD OF SUPERVISORS	DEPARTMENT HEAD	DATE	APRIL 5, 1966
COUNTY MANAGER	ARCHITECT	DRAWN	M.J.K. & W.S.M.
DIRECTOR, BUILDING CONSTRUCTION	ENGINEER	CHECKED	RHW
		REVISED	
		JOB NUMBER	5470 A

COUNTY OF SAN MATEO
DEPARTMENT OF BUILDING CONSTRUCTION AND GENERAL SERVICES
ARCHITECTURAL AND ENGINEERING DIVISION
COUNTY CENTER, REDWOOD CITY, TELEPHONE 369-1441, EXT. 444

SAN MATEO COUNTY
WORK FURLOUGH FACILITY
REDWOOD CITY CALIFORNIA

FOUNDATION DETAILS

SHEET 9 OF 13 SHEETS

REFERENCE NORTH

TYP. PARTIAL DORM. ELEV.
SCALE 1/8"=1'-0"

KITCHEN 17
CONFIRM EXACT LOCATION FOR ALL KITCHEN ROUGH-IN ELECT. W/ OWNER

JANITOR 16

DINING ROOM 18

WOMEN 21

COATS 22

TOILET 23

HOBBY RM 19

DAY RM. 20

SUPPLY 15

LAUNDRY 14

FURNACE 41

COVERED CORRIDOR 2

RECEPTION

STORAGE 13

CONFERENCE 10

INTERVIEW

STAFF 7

SEC. 6

OFFICE

WAITING 4

DORMITORY 25

DORM 26

DORMITORY 27

DORMITORY 28

DORMITORY 29

DORMITORY 30

DORM 31

DORMITORY 32

WATER HEATER 35

STORAGE 33

SHOWER 36

TOILET ROOM 38

QUIET RM. 34

CORRIDOR 24

PANEL A

PANEL B

PANEL C

PANEL D

PANEL E

SERV. ENTRY SWITCH GEAR 13A

ROOF OVERHANG

SECTION
SCALE 1/8"=1'-0"
FURNACE RM 40 SIMILAR
SEE SH. # 5

SERV. HD.
SERVICE RISER AND HD. BRACED AS PER P.G.&E. REQUIREMENTS.
500 M.C.M.
METER
FUSED 400 AMP DISCONNECT
125 AMP C.B. - PANEL A
70 AMP C.B. - PANEL C
150 AMP C.B. - PANEL D
1" CONDUIT w/ #1 - #2 GROUND TO C.W. PLMB. PIPE

SINGLE LINE MAIN DISTRIBUTION SYSTEM

2- KUSTOM LIGHTING CAT. NO K-7020
150 W. POST TOP W/ 8'-0 ALUM. POLE
SET IN CONC. BASE

ELECTRICAL PLAN
SCALE 1/8"=1'-0"

SYMBOLS

- INCANDESCENT FIXTURES - CEILING SURFACED MOUNTED
- FLUORESCENT FIXTURES - " " "
- LIGHT AND FAN - " " " " INSTALLED BY ELECT. SHT. MTL BY OTHERS
- RECESSED INCANDESCENT FIXTURES @ ROOF OVERHANG SOFFIT
- ADJUSTIBLE " " " " " "
- WALL MOUNTED LIGHTS @ TOILET RM. 38 (SEE TOILET RM. ELEVATION SHEET # 7)
- SPEAKERS - CEILING SURFACED MOUNTED
- SPEAKERS - MOUNTED AT ROOF OVERHANG SOFFIT. (LOCATE ENTIRE UNIT UNDER SOFFIT)
- MOTOR FOR FURNACES, FANS, ETC.
- EXPOSED RECEPTACLES (120V DUPLEX) AND HORIZ. CONDUIT - 10" ABOVE FLOOR. EXPOSED VERTICAL CONDUIT AT CORNER OF RM., NEATLY STRAPPED - SEE TYP ELEV. ON THIS SHEET. AT ALL MOVABLE GYP. BD. PARTITIONS & CONCRETE WALLS.
- RECEPTACLES (120 V DUPLEX) - CONCEALED CONDUITS @ STUD WALLS - UP 16" UNLESS OTHERWISE NOTED.
- SWITCH LEG BOXES UP 4' - ALL CONDUITS SHALL BE CONCEALED, EXCEPT FOR EXPOSED VERTICAL CONDUITS AT CONC.
- THREE WAY SWITCH LEG BOXES UP 4' - ALL CONDUITS SHALL BE CONCEALED.
- PHONE JACK UP 12" UNLESS OTHERWISE NOTED - CONCEALED CONDUITS AT WOOD STUD WALLS.
- PHONE JACK UP 12" UNLESS OTHERWISE NOTED - EXPOSED VERTICAL CONDUITS @ MOVALBE PARTITIONS.
- WALL MOUNTED EXIT LIGHTS - EXPOSED VERTICAL CONDUIT AT CONC. WALL 1'-0" ABOVE DOOR (8' ABOVE FL.). 4" ± ABOVE DOOR TRANSOM (9'-6" ± ABOVE FL.)

CHAIRMAN, BOARD OF SUPERVISORS	DEPARTMENT HEAD	DATE	APRIL 5, 1966
COUNTY MANAGER	ARCHITECT	DRAWN	HF
DIRECTOR, BUILDING CONSTRUCTION		CHECKED	TCW
		REVISED	
		JOB NUMBER	5470 A

COUNTY OF SAN MATEO
DEPARTMENT OF BUILDING CONSTRUCTION AND GENERAL SERVICES
ARCHITECTURAL AND ENGINEERING DIVISION
COUNTY CENTER, REDWOOD CITY, TELEPHONE 369-1441, EXT. 444

SAN MATEO COUNTY
WORK FURLOUGH FACILITY
REDWOOD CITY CALIFORNIA

ELECTRICAL PLAN AND DETAILS

SHEET 10 OF 13 SHEETS

PANEL A 120/208 3Ø4WIRE 225 AMP

CIRC. NO	POLE	WATTS	AMPS	REMARKS
1	1	640	20	LIGHTING STORAGE-TOILETRM-CONF.
2	1	1000	20	" LAUNDRY-SUPPLY
3	1	1350	20	" CORRIDOR - EXIT
4	1	150	20	" " N.L.
5	1	100	20	" EXIT
6	1	880	20	" HOBBY SHOP
7	1	880	20	" DAY ROOM
8	1	880	20	" DAY ROOM
9	1	880	20	" DAY ROOM
10	1	300	20	" TOILET ROOM
11	1	1120	20	" DINING ROOM
12	1	1120	20	" DINING ROOM
13	1	900	20	" INTERVIEW - STAFF
14	1	900	20	" SEC. C.O. WAITING
15	1	1000	20	PLUGS STORAGE-TOILET-CONF.
16	1	1000	20	" INTERVIEW ROOMS
17	1	1000	20	" STAFF-SEC.
18	1	1000	20	" C.O.-WAITING RM.
19	1	1000	20	" FURNACE ROOM
20	1		20	SPARE
21	1	1000	20	" FURNACE ROOM
22	3		50	PANEL B LAUNDRY ROOM
23	1	1000	20	PLUGS DINING ROOM
26	1	1000	20	" LAUNDRY- SUPPLY
26	3	800	20	PARKING AREA LIGHTS
27	1	600	20	OUTSIDE FLOODS
29-31 TO 36	1			SPARES

PANEL B 120/208 3Ø4WIRE

CIRC NO	POLE	WATTS	AMPS	REMARKS
1	2	3/4 HP	20	WASHER No 1
2	1			SPARE
4	1	1000	20	PLUGS
5	2	3/4 HP	20	WASHER No 2
6	2	1/2 HP	20	DRYER No 1
9	3	3 HP	20	EXTRACTOR
10	2	1/2 HP	20	DRYER No 2
14	2		20	SPARE
15-16	1		20	SPARES

PANELC 120/208 3Ø4WIRE

CIRC. NO	POLE	WATTS	AMPS	REMARKS
1	1	1300	20	LIGHTING
2	1	1300	20	"
3	1	1000	20	PLUGS
4	1	1000	20	PLUGS
5	1	1000	20	ICE MACHINE D.W. HOOD
6	1	1000	20	FREEZER
7	1	830	20	REFER
8	1	830	20	REFER
9	1	830	20	REFER
10	1	1000	20	SPARE
11	1	830	20	FOOD SLICER
12	1	830	20	" GRINDER
13	2	1120	30	POTATOE PEELER
14	1	1000	20	SPARE
16	2	1200	20	DISPOSAL
17	1	1000	20	SPARE
19	3	3.4 KW	20	DISHWASHER
20	3	1800	20	KITCHEN HOOD
25	3	2.3 KW	20	BAKE OVEN
26	3	2250	20	FOOD MIXER
31	3	5 KW	20	DISH WASHER HEATER
32-34-36				SPARES

PANEL D 120/208 3Ø4WIRE

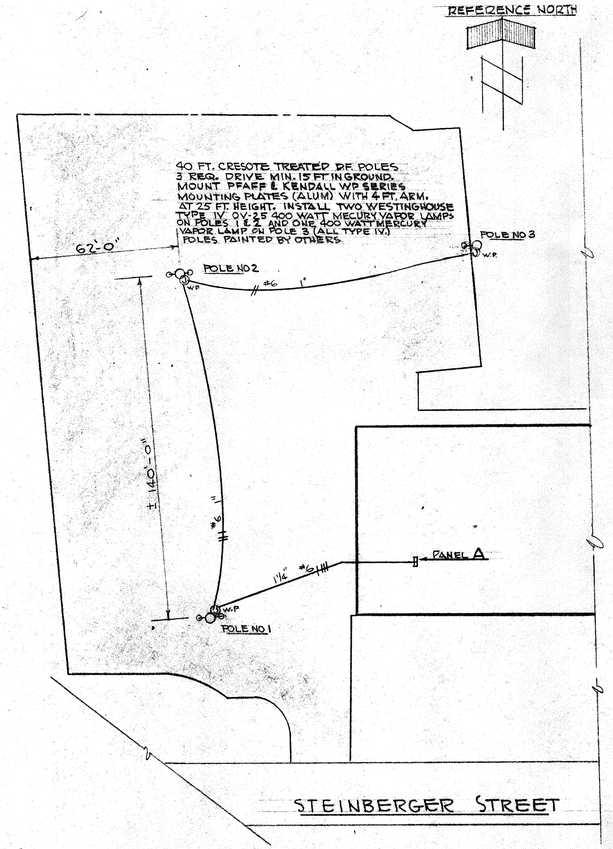
CIRC NO	POLE	WATTS	AMPS	REMARKS
1	1	1000	20	LIGHTING TOILET RM. CEILG.
2	1	960	20	" DORMITORY 29
3	1	1500	20	" TOILET RM. WALL - JANITOR
4	1	960	20	" DORMITORY 31
5	1	1000	20	" SHOWER-DRESSING RM
6	1	1440	20	" DORMITORY - 30
7	1	900	20	" CORR 33 - EXIT
8	1	200	20	" CORR N.L.
9	1	100	20	" EXIT
10	1	1050	20	" QUIET RM - HEATER RM - STORAGE
11	1	1120	20	" RECEPTION - COVERED CORR.
12	1	1440	20	" DORMITORY - 32
13	1	1000	20	PLUGS " 29-30
14	1	1000	20	" " 31-32
15	1	1000	20	" " 32 - RECEPTION
16	1	1000	20	" " RM 34 - W. HEATER RM
17	1	1000	20	" TOILET ROOM
18	1	1000	20	" FURNACE RM
19	1	1000	20	" " "
20	3		50	TO PANEL E
21-23	1	2,000	20	SPARES
25-26	1	2,000	20	SPARES

PANEL E 120/208 3Ø4WIRE

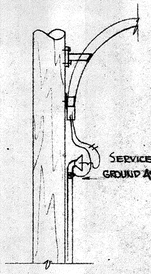
CIRC NO	POLE	WATTS	AMPS	REMARKS
1	1	1440	20	LIGHTING DORMITORY 25
2	1		20	" SPARE
3	1	960	20	" DORMITORY 26
4	1	1000	20	" " 28-EXIT
5	1	1440	20	" " 27
6	1	100	20	" EXIT
7	1	900	20	" CORRIDOR
8	1	1000	20	PLUGS DORMITORY 25
9	1	1000	20	" " 26-27
10	1	1000	20	" " 27-28
11	1	1000	20	ROOF EXHAUSTER
12	1	1000	20	SPARE
13	1	1000	20	SPARE
14	3		20	OUTSIDE LIGHTING REC. AREA (FUTURE)
15	1	600	20	OUTSIDE FLOODS
17 TO 20	1		20	SPARES

FIXTURE SCHEDULE

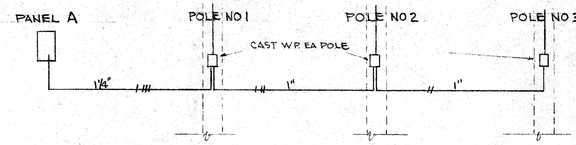
FIXTURE	MANUFACTURER	CATALOG NO	WATTS	REMARKS
(A)	WELLMADE	112 K4A 348 RS	3 F-40	
(B)	WELLMADE	112 K4A 248 RS	2 F-40	
(C)	ART METAL	606 SQUARE DRUM	2-75	
(D)	STONCO	VN-2GC	200	VAPOR TIGHT
(E)	ELECTRO	B130 RSH	1-30	B36SA REFLECTOR
(F)	ART METAL	3357 AA	100	RECESSED - GASKETED - W.P.
(G)	ART METAL (WALLENS)	3549 PC	2-75	WALL BRACKET
(H)	ART METAL	605 SQUARE DRUM	2-60	
(J)	NU TONE	8660	100	FAN-LIGHT
(K)	ART METAL	3362 TAPER DRUM	2-100	
(L)	ART METAL	3363 TAPER DRUM	3-100	
(M)	STONCO	VN-1K	100	SWITCH ON HOOD
(N)	KUSTOM LIGHTING	K-G200	150	3' HIGH - STEEL CANOPY
(O)	STONCO	6900L TAPERED BULLET	2-150	SILVER SPRAY FINISH
(P)	ART METAL	EXIT SERIES W-35	2-25	



PARTIAL PLOT PLAN ~ PARKING AREA LIGHTING
SCALE 1" = 30'-0"



TYP. BRACKET & GROUND DETAIL AT LIGHTING POLES



SINGLE LINE DIAGRAM PARKING AREA LIGHTING

NOTES

1. CONTRACTOR SHALL INSTALL TWO LIGHT RECEPTACLES IN EA. FURNACE RM. WITH SWITCH ACCESSIBLE FROM TOP OF STAIRWAY SEE SEC. SHT 10
2. RUN CONDUIT FROM OUTSIDE SPEAKER LOCATIONS IN SOFFIT BACK INTO ATTIC SPACE.
3. BRANCH CIRCUITS FROM PANELS TO BE RUN OVERHEAD IN ATTIC SPACE - EXCEPT FOR PANELC. POWER & EQUIPMENT OUTLETS IN ROOM AREA RUN UNDER FLOOR.
4. ALL TELEPHONE OUTLET BOXES PIPED TO ATTIC SPACE - MAKE ACCESSIBLE & INSTALL PULL WIRE.
5. ELECTRICAL CONTRACTOR TO FUENISH AND INSTALL WOOD POLES FOR PARKING LIGHTING AS SHOWN.
6. SEE SHT 13 FOR WATER HEATER ROOM AND WIRE ACCORDINGLY.
7. KITCHEN EQUIP. N.I.C. ROUGH IN ONLY.
8. WHERE SWITCH LEGS OCCUR IN GYPSUM MOVABLE PARTITIONS BOXES FURNISHED BY PARTITION CONTRACTOR. 1 5/8" DP.

CHAIRMAN, BOARD OF SUPERVISORS

COUNTY MANAGER

DIRECTOR, BUILDING CONSTRUCTION

DEPARTMENT HEAD

ARCHITECT

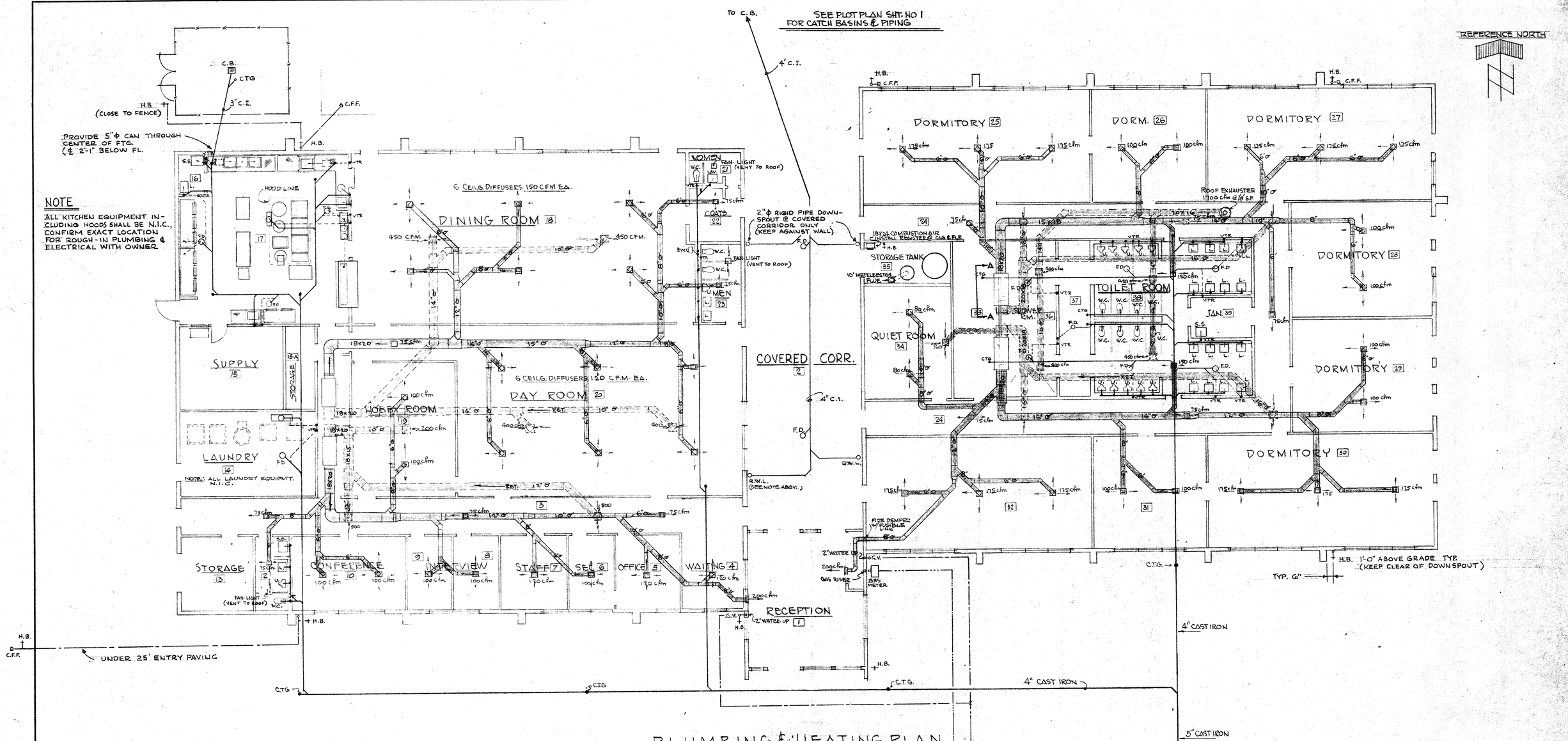
DATE APRIL 5, 1966
DRAWN HF
CHECKED TCW
REVISED
JOB NUMBER 5470 A

COUNTY OF SAN MATEO
DEPARTMENT OF BUILDING CONSTRUCTION AND GENERAL SERVICES
ARCHITECTURAL AND ENGINEERING DIVISION
COUNTY CENTER, REDWOOD CITY, TELEPHONE 369-1441, EXT. 444

SAN MATEO COUNTY
WORK FURLOUGH FACILITY
REDWOOD CITY CALIFORNIA

PARKING LIGHTING AND SCHEDULES

SHEET 11 OF 13 SHEETS



PLUMBING & HEATING PLAN

SCALE 1/8" = 1'-0"

NOTES

1. WHERE CAST IRON PIPE RUNS UNDER BEAMS BELOW SLAB, INSTALL HANGERS & STRAP SECURELY
2. HOT WATER LOOP IN ATTIC SHALL BE CAREFULLY GRADED AS SHOWN ON RISER DIAGRAM. AVOID TRAPPING LINE.

HEATING ~ NOTES

1. INSTALL 18" RD. DUCT FROM ROOF TO EA. FURNACE ROOM FOR COMBUSTION AIR WITH CEILING GRILLE. EXIT-AIRE TYPE VA GRAVITY TOP.
2. INSTALL EXIT-AIRE TYPE VA GRAVITY TOPS ON ALL ROOF VENTS SIZE AS REQUIRED.
3. FAN-LIGHT FIXTURES IN TOILET RMS. BY ELECT. VENTS BY HEATING CONTRACTOR.

SYMBOLS AND LEGEND

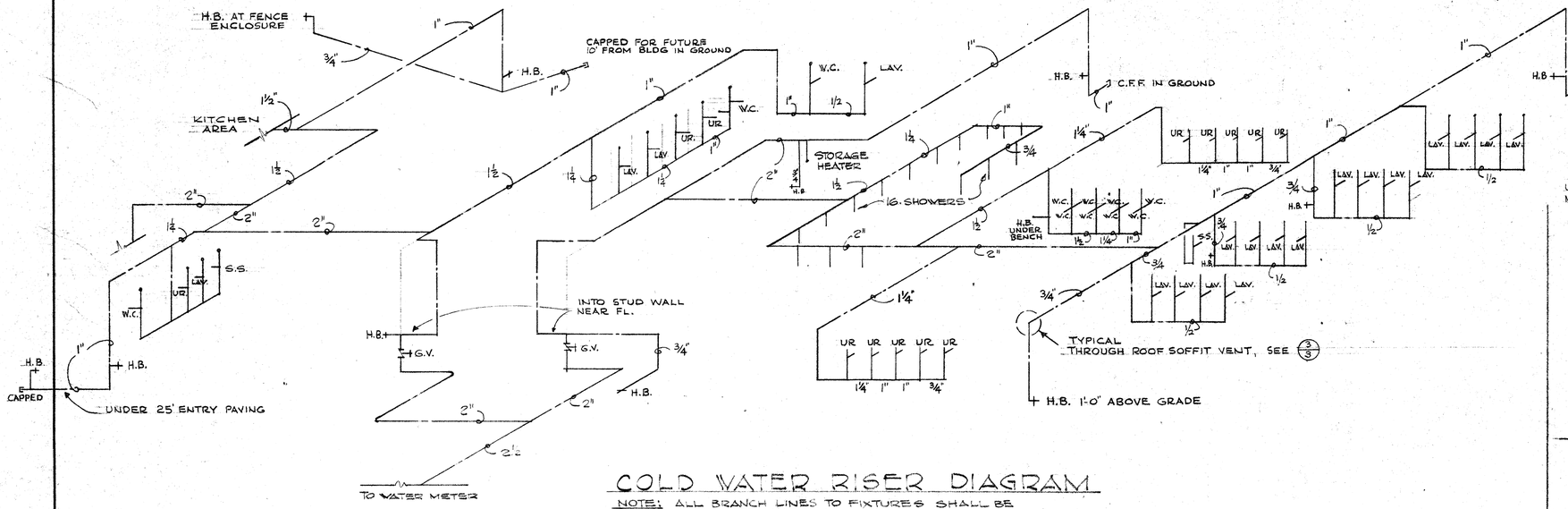
PLUMBING			
——	SANITARY SOIL OR WASTE-BURIED	W.C.	WATER CLOSET
—·—	COLD WATER	L.	LAVATORY
—·—	HOT WATER	S.S.	SERVICE SINK
—··—	HOT WATER RETURN	U.	URINAL
C.T.G.	CLEANOUT TO GRADE	R.W.L.	ROOF WATER LEADER
W.C.O.	WALL CLEANOUT	E.W.C.	ELECT. WATER COOLER
V.T.R.	VENT THRU ROOF	N.G.V.	GATE VALVE
C.I.	CAST IRON		
F.D.	FLOOR DRAIN		
H.B.	HOSE BIBB (3/4")		
H.P.	HIGH PRESSURE (100 PSI)		
HEATING			
F.R.	FLOOR REGISTER	②	EXHAUST FAN
H.W.S.	HIGH WALL SUPPLY		
L.W.S.	LOW WALL SUPPLY		
H.W.R.	HIGH WALL RETURN		
L.W.R.	LOW WALL RETURN		
Ⓣ	AUTOM. THERMOSTAT		

CHAIRMAN, BOARD OF SUPERVISORS	DEPARTMENT HEAD	DATE APRIL 5, 1966	COUNTY OF SAN MATEO
COUNTY MANAGER	ARCHITECT	DRAWN HF	DEPARTMENT OF BUILDING CONSTRUCTION AND GENERAL SERVICES
DIRECTOR, BUILDING CONSTRUCTION		CHECKED TCW	ARCHITECTURAL AND ENGINEERING DIVISION
		REVISED	COUNTY CENTER, REDWOOD CITY, TELEPHONE 369-1441, EXT. 444
		JOB NUMBER 5470 A	

SAN MATEO COUNTY WORK FURLOUGH FACILITY
REDWOOD CITY CALIFORNIA

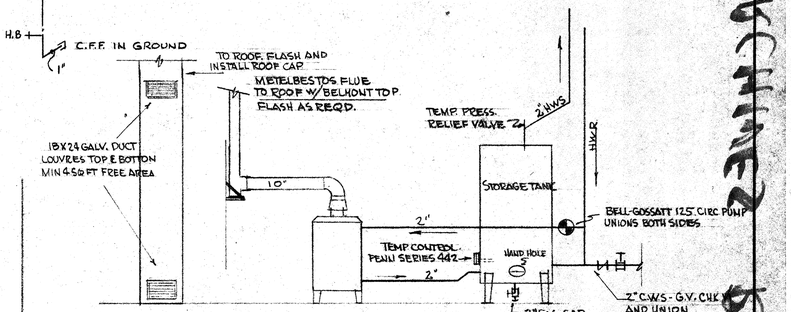
PLUMBING & HEATING PLAN
SYMBOLS SCHEDULE

SHEET 12 OF 13 SHEETS



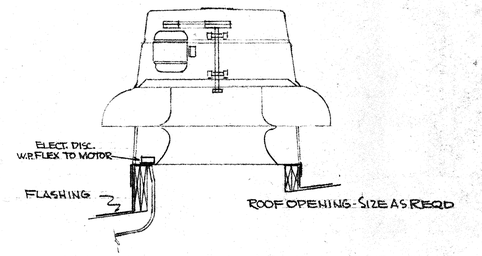
COLD WATER RISER DIAGRAM

NOTE: ALL BRANCH LINES TO FIXTURES SHALL BE CONCEALED IN STUDS WALLS



ON TEMP. DROP IN STORAGE TANK BOILER TO FIRE AND START CIRC. PUMP. BOILER CONTROLLED BY HI-LIMIT SWITCH. ON TEMP RISE BOILER AND PUMP OFF.

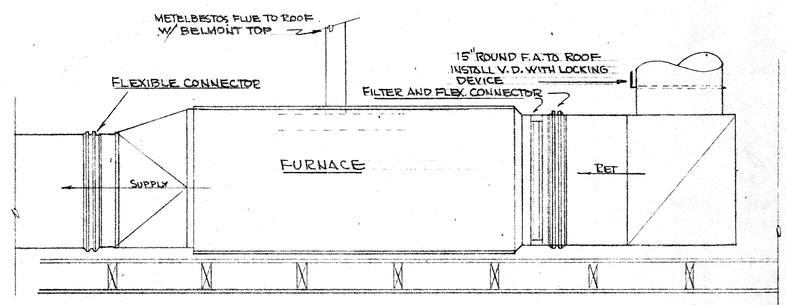
STORAGE TANK & HEATER DETAIL



TYP. ROOF EXHAUSTER DETAIL

HOT WATER RISER DIAGRAM

GAS RISER DIAGRAM



SEC. A-A. TYP. DUCT ARRANGEMENT IN FURNACE RMS

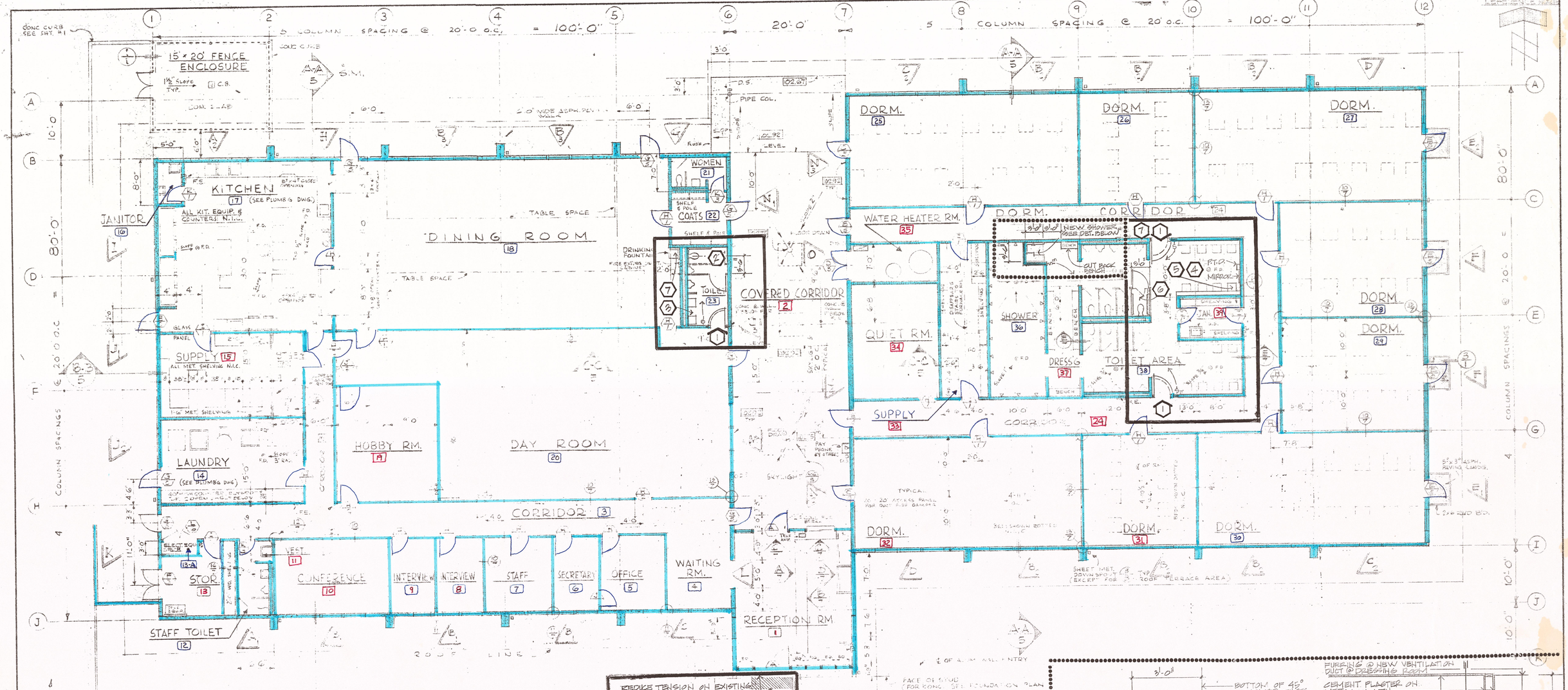
CHAIRMAN, BOARD OF SUPERVISORS	DEPARTMENT HEAD / ARCHITECT	DATE	APRIL 5, 1966
COUNTY MANAGER / DIRECTOR, BUILDING CONSTRUCTION		DRAWN	H.F.
		CHECKED	TCW
		REVISED	
		JOB NUMBER	5470 A

COUNTY OF SAN MATEO
DEPARTMENT OF BUILDING CONSTRUCTION AND GENERAL SERVICES
ARCHITECTURAL AND ENGINEERING DIVISION
COUNTY CENTER, REDWOOD CITY, TELEPHONE 369-1441, EXT. 444

SAN MATEO COUNTY
WORK FURLOUGH FACILITY
REDWOOD CITY CALIFORNIA

RISER DIAGRAMS
DETAILS

SHEET 13 OF 13 SHEETS



REDUCE TENSION ON EXISTING OVERHEAD DOOR CLOSER TO MEET HANDICAPPED CRITERIA

PROVIDE NEW ASPHALT CONCRETE TOPPING ON EXISTING WALK TO PROVIDE SMOOTH TRANSITION TO CONCRETE APRON. SLOPE SHALL NOT EXCEED 1 IN 12

NOTE:

HANDICAPPED SHOWER MAY BE LOCATED AT OPPOSITE END OF SHOWER ROOM, AT CONTRACTORS OPTION. HANDICAPPED TOILET FACILITIES SHOULD BE LOCATED ACCORDINGLY

LEGEND FOR HANDICAPPED IMPROVEMENTS

- LIMITS OF WORK TO BE ADDED TO CONTRACT FOR SHOWER STALL REPLACEMENT PROJECT NO. A682-0000478
- LIMITS OF WORK TO BE ADDED TO CONTRACT FOR PROJECT ENTITLED "PRIORITY A" HANDICAPPED IMPROVEMENTS. PROJECT NO. B611-0031018
- FOR SCOPE OF WORK, SEE SHEETS SK-11 THRU SK-13.

REVISED: 8 MARCH 82

SYMBOLS

CONC. CURB TURN-UP RUNS SEE SHEET 9 OF 13

1 → DETAIL NO.
SK-10 → SHEET NO.

INTER. ELEVATION SHEET NO.

BUILDING SECTION SHEET NO.

DOOR TYPES HARDWARE GROUP

LEGEND

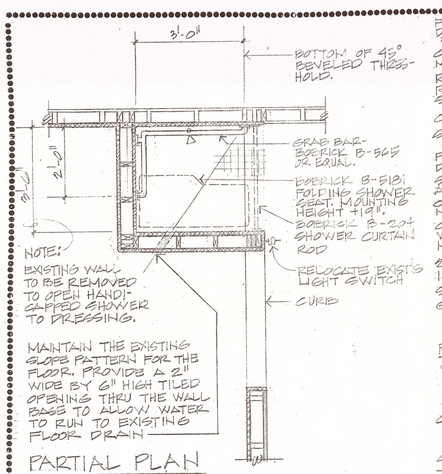
CONC. CURB TURN-UP RUNS SEE SHEET 9 OF 13

CAP WORK AND WALL

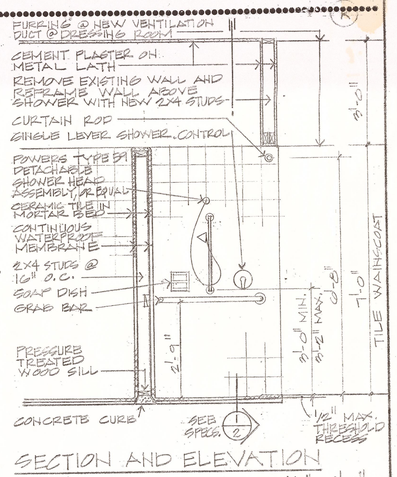
PLASTIC FINISH WORK MOULD & PLASTER DET.

GENERAL NOTES

1. VERIFY EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD. REPORT ANY DISCREPANCIES TO THE ARCHITECT.
2. WHERE NOT OTHERWISE CALLED OUT OR DETAILED THE NEW WORK SHALL MATCH EXISTING.
3. NEW WORK SHALL MEET H.E.W. SECTION 4.U.3 BARRIER-FREE CRITERIA.
4. PATCH AND REFINISH ADJACENT EXISTING WORK AS REQUIRED TO MAKE A COMPLETE AND FINISHED JOB.
5. EXISTING TILE WAINSCOAT IN TOILET AREA IS 47" HIGH.



PARTIAL PLAN
HANDICAPPED SHOWER STALL



SECTION AND ELEVATION
1/2" = 1'-0"

CHAIRMAN, BOARD OF SUPERVISORS	DEPARTMENT HEAD	DATE	APRIL 5, 1982
COUNTY MANAGER	ARCHITECT	DRAWN	M.K. & W.M.
DIRECTOR, BUILDING CONSTRUCTION		CHECKED	G.W.
		REVISED	
		JOB NUMBER	5493A

COUNTY OF SAN MATEO
DEPARTMENT OF BUILDING CONSTRUCTION AND GENERAL SERVICES
ARCHITECTURAL AND ENGINEERING DIVISION
COUNTY CENTER, REDWOOD CITY, TELEPHONE 369-1441, EXT. 444

SAN MATEO COUNTY
WORK FURLOUGH FACILITY
REDWOOD CITY CALIFORNIA

FLOOR PLAN

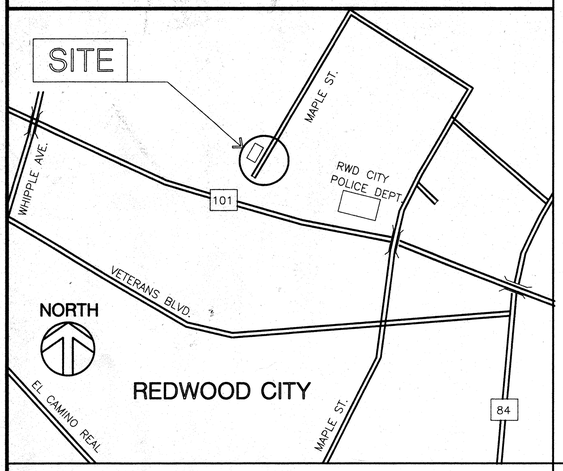
SHEET SK-10 OF SHEETS

E-4-4 114

MAPLE STREET
SELF-SUFFICIENCY SHELTER
COUNTY OF SAN MATEO

1580 MAPLE STREET
REDWOOD CITY, CALIFORNIA

VICINITY MAP



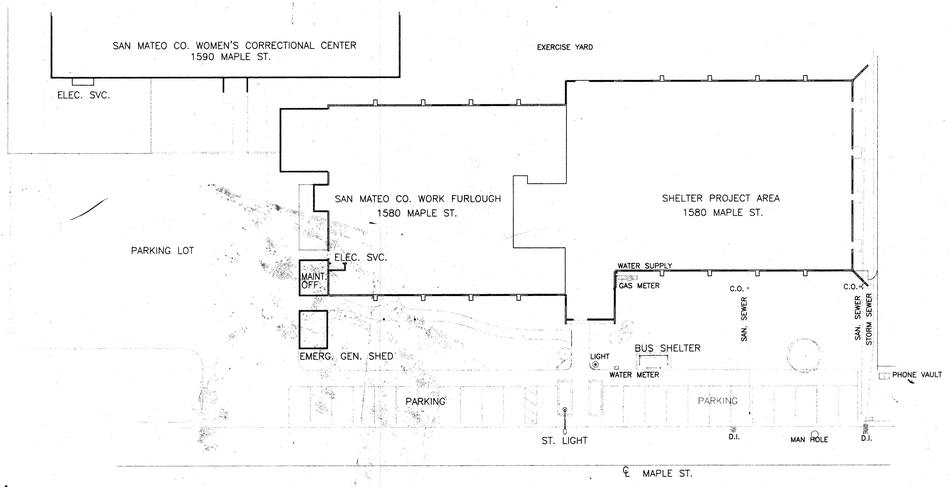
PROJECT DATA

ADDRESS:	1580 MAPLE STREET REDWOOD CITY, CALIFORNIA
DESCRIPTION:	INTERIOR REMODELING, AIR CONDITIONING, AND SITE IMPROVEMENTS
BLDG. OWNER:	COUNTY OF SAN MATEO
TENANT:	SHELTER NETWORK
PROJECT AREA:	10,600 SQ. FT.
BUILDING TYPE:	TYPE V-N
OCCUPANCY:	R-2.1
BUILDING CODES:	1994 U.B.C. 1994 U.M.C. 1994 U.F.C. 1994 N.E.C.
PARKING:	12 SPACES PROVIDED.

GENERAL NOTES:

1. ALL WORK TO BE IN ACCORDING WITH REQUIREMENT OF GOVERNING LOCAL FIRE CODES AND BUILDING CODES.
2. VERIFY ALL DIMENSIONS AND CONDITIONS, NOTIFY ARCHITECT OF ANY DISCREPANCIES.
3. SCHEDULE ALL WORK WITH THE FACILITY ADMINISTRATOR, INCLUDING CONSTRUCTION ACCESS AND STORAGE.
4. CONTRACTOR SHALL PROVIDED DUST COVERS AS REQUIRED CONTAIN DUST AND DEBRIS WITHIN CONSTRUCTION AREA. BROOM CLEAN ALL AREAS EACH DAY. KEEP DIRT AND DUST TO A MINIMUM.
5. ALL REMOVED ITEMS DEEMED TO HAVE VALUE BY THE OWNER SHALL BE DELIVERED TO A PLACE OF STORAGE AT THE SITE AS DIRECTED. ALL OTHER ITEMS MUST BE DISPOSED OF OFF SITE IN A LEGAL MANNER. VERIFY WITH OWNERS.
6. WHERE EXISTING STRUCTURE IS CUT, DAMAGED, OR REMODELED, PATCH WITH MATERIAL TO MATCH IN KIND, QUALITY AND PERFORMANCE TO EXISTING.
7. WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO THE PUBLIC AND OCCUPANTS OF THE EXISTING BUILDING.
8. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE, IN ACCORDANCE WITH APPLICABLE LAWS AND CODES. GUARD AGAINST ALL HAZARDS IN ACCORDANCE WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA.
9. CLEAN ALL EXPOSED SURFACES AFTER COMPLETION.
10. FIRE EXTINGUISHERS SHALL BE LOCATED WITHIN A MAXIMUM AREA OF 1,000 SQ.FT. OF COVERAGE AND WITH A TRAVEL DISTANCE OF 75'-0" TO EXISTINGUISHER
11. PRESERVE & MAINTAIN (E) EXITS DURING DEMOLOTION AND CONSTRUCTION.
12. PROVIDE EXIT SIGNS PER U.B.C. 3314.
13. ALL DIMENSIONS GIVEN TO FACE OF STUD, U.O.N.
14. DATUM ELEVATION 0'-0" IS GIVEN AS BENCHMARK.
15. INSTALL ALL RECEPTACLES OUTLETS AT NOT LESS THAN 15" A.F.F.; INSTALL ALL SWITCHES AT NOT MORE THAN 48" A.F.F.

EXISTING SITE PLAN



NORTH

SCALE: 1" = 30'

SYMBOLS

(E)	EXISTING	A	COLUMN LINE	(T)	TEMPERED	10'-0"	CEILING HEIGHT
(R)	REMOVE	100A	DOOR NUMBER	1 / A-7	DETAIL		REFERENCE POINT
(RL)	RELOCATE	100A	WINDOW NUMBER	1 / A-8	SECTION	1	REVISION NUMBER
(N)	NEW	LOBBY 100	ROOM NAME ROOM NUMBER	1 / A-5	INTERIOR ELEVATION		

SHEET INDEX

	ARCHITECTURAL
T1-1	TITLE SHEET
A1-1	DEMOLITION PLAN
A2-1	FLOOR PLAN
A2-2	DOOR & ROOM FINISH SCHEDULES
A3-1	EXTERIOR ELEVATIONS AND BUILDING SECTION
A4-1	DETAIL PLAN
A5-1	INTERIOR ELEVATIONS
A5-2	INTERIOR ELEVATIONS
A6-1	REFLECTED CEILING PLAN
A8-1	ARCHITECTURAL DETAILS
A8-2	ARCHITECTURAL DETAILS
	ELECTRICAL
E-1	INDEX, SYMBOLS, PANEL SCHEDULE & SINGLE LINE DIAGRAM
ED-1	ELECTRICAL DEMOLITION PLAN
E-2	LIGHTING PLAN
E-3	POWER PLAN
	LANDSCAPING
L-1	LAYOUT AND GRADING
L-2	IRRIGATION PLAN
L-3	PLANTING PLAN
L-4	IRRIGATION AND PLANTING DETAILS
L-5	IRRIGATION AND PLANTING DETAILS

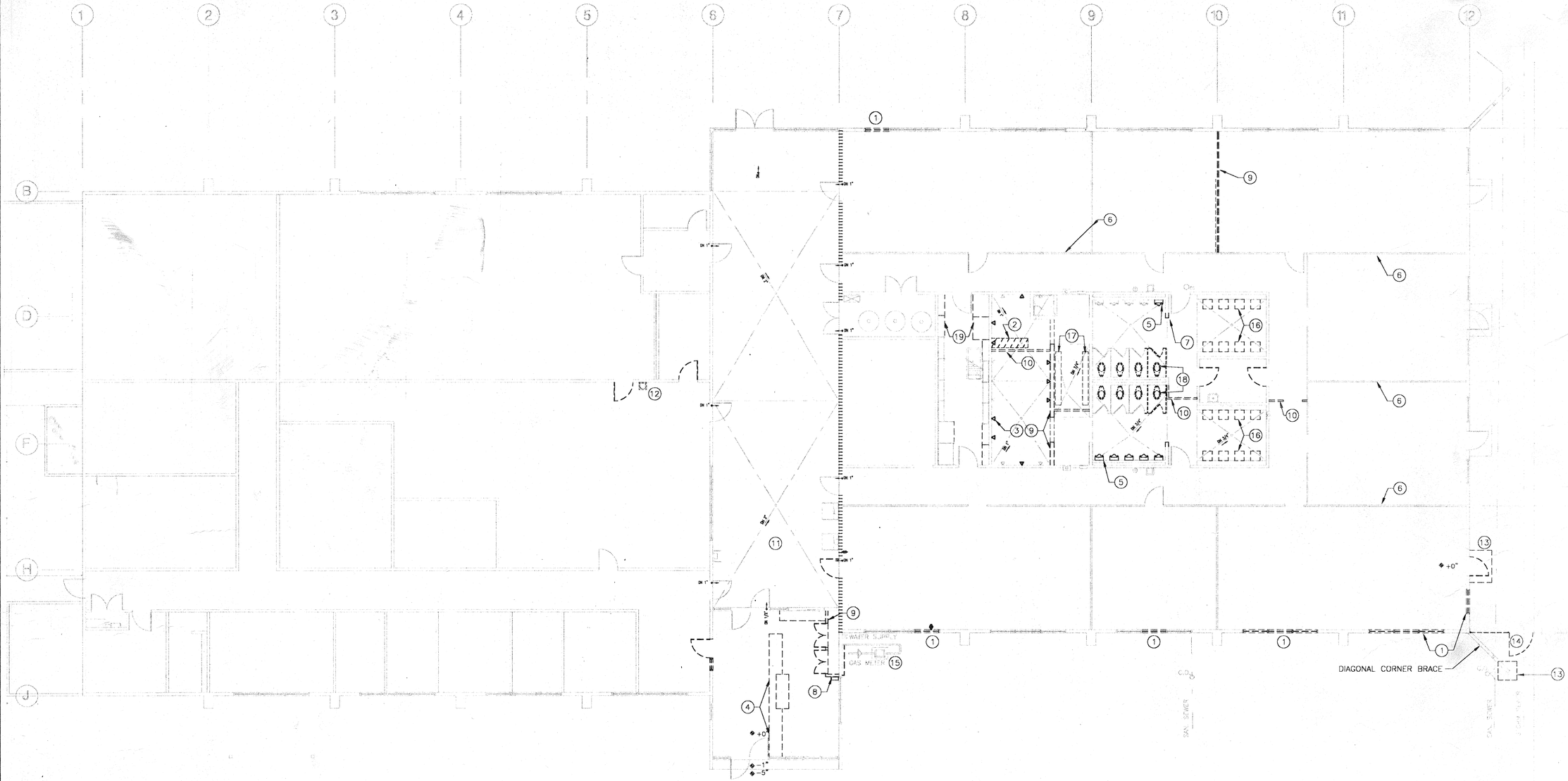
REVISIONS
1 6-3-98

HAGMAN ASSOCIATES
ARCHITECTS
2400 BROADWAY SUITE 201
REDWOOD CITY, CA. 94063
(650) 364-5264

MAPLE STREET SELF-SUFFICIENCY SHELTER
COUNTY OF SAN MATEO
MAPLE ST. REDWOOD CITY, CALIFORNIA

TITLE SHEET

DATE 5-22-98
SCALE AS NOTED
DRAWN EK, JB
JOB -
SHEET T1-1
OF 19 SHEETS



LEGEND

- EXIST. WALL TO REMAIN.
- EXIST. 2 HR. AREA SEPARATION CONC. WALL TO REMAIN.
- DEMO STUD WALL WITH PLASTER OR TILE, SEE NOTE 9.
- DEMO PREFINISHED PARTITION SYSTEM, SEE NOTE 10.
- DEMO DOOR, FRAME MAY BE REUSED AS IS OR ALTERED, SEE SCHEDULE.
- REMOVE PLUMBING FIXTURES.
- REMOVE CASEWORK OR EQUIPMENT.

DEMOLITION NUMBERED NOTES

1. REMOVE WINDOW, GIVE TO COUNTY FOR SPARE PARTS, AND SAW CUT CONCRETE WALL TO ENLARGE OPENING.
2. SAW CUT SLAB AND REMOVE TO TIE NEW KITCHEN SINK INTO SHOWER DRAIN.
3. REMOVE AND CAP SHOWER VALVES AND HEADS NINE PLACES. ADD EXTENSION TO KITCHEN SINK.
4. OWNER SHALL RETAIN POSSESSION OF LOCK BOXES AFTER REMOVAL FROM COUNTER.
5. REMOVE SIX URINALS AND ALTER PIPES FOR FOR NEW LAVATORIES AND ONE NEW ACCESSABLE URINAL.
6. REMOVE AND ALTER SURFACE ELEC. WIRING AS SHOWN ON ELEC. DRAWINGS FOR CUBICAL FURNITURE.
7. REMOVE WALL END AT BOTH RESTROOMS TO ALLOW CLEARANCE SHOWN ON FLOOR PLAN.
8. REMOVE SPACE HEATER, REMOVE GAS PIPING TO OUTSIDE BUILDING, PATCH ROOF AT FLUE. SEE MECH. DWGS.
9. REMOVE WALL, FLOOR TO CEILING. CAP OR CONTINUE ELECTRICAL OR PLUMBING PER SPEC. GRIND FLUSH AT ADJOINING WALLS FLOOR AND CEILING.
10. REMOVE PARTIAL HT. PARTITION PANEL AND MOUNTING BRACKETS.
11. SEE REFLECTED CEILING PLAN (A6-1) FOR DEMOLITION AND ALTERATIONS ABOVE.
12. DISCONNECT DRINKING FOUNTAIN, REMOVE PLUMBING, AND CAP OR EXTEND WATER SUPPLY. SEE SHT. A2-1 FOR RELOCATION.
13. DEMO CONC. PAD OR LANDING.
14. REMOVE FENCE AND GATE FOR REUSE TO THE NORTH, SEE SHT. A2-1 FOR LOCATION.
15. COORDINATE ALTERATIONS MOVING GAS METER INSTALLATION TO THE WEST.
16. DEMO 16 LAVATORIES. MAINTAIN WASTE ANS WATER CONNECTIONS FOR NEW FIX.
17. REMOVE BENCHES AND PATCH FLOOR TILE.
18. REMOVE ALL TOILETS. MAINTAIN WASTE AND WATER CONNECTIONS FOR NEW SIMILAR SIZE FIXTURES.
19. REMOVE SHELVING CASEWORK TO EXPOSE WALL FOR NEW FINISH PER FIN. SCHEDULE.
20. -
21. -
22. -

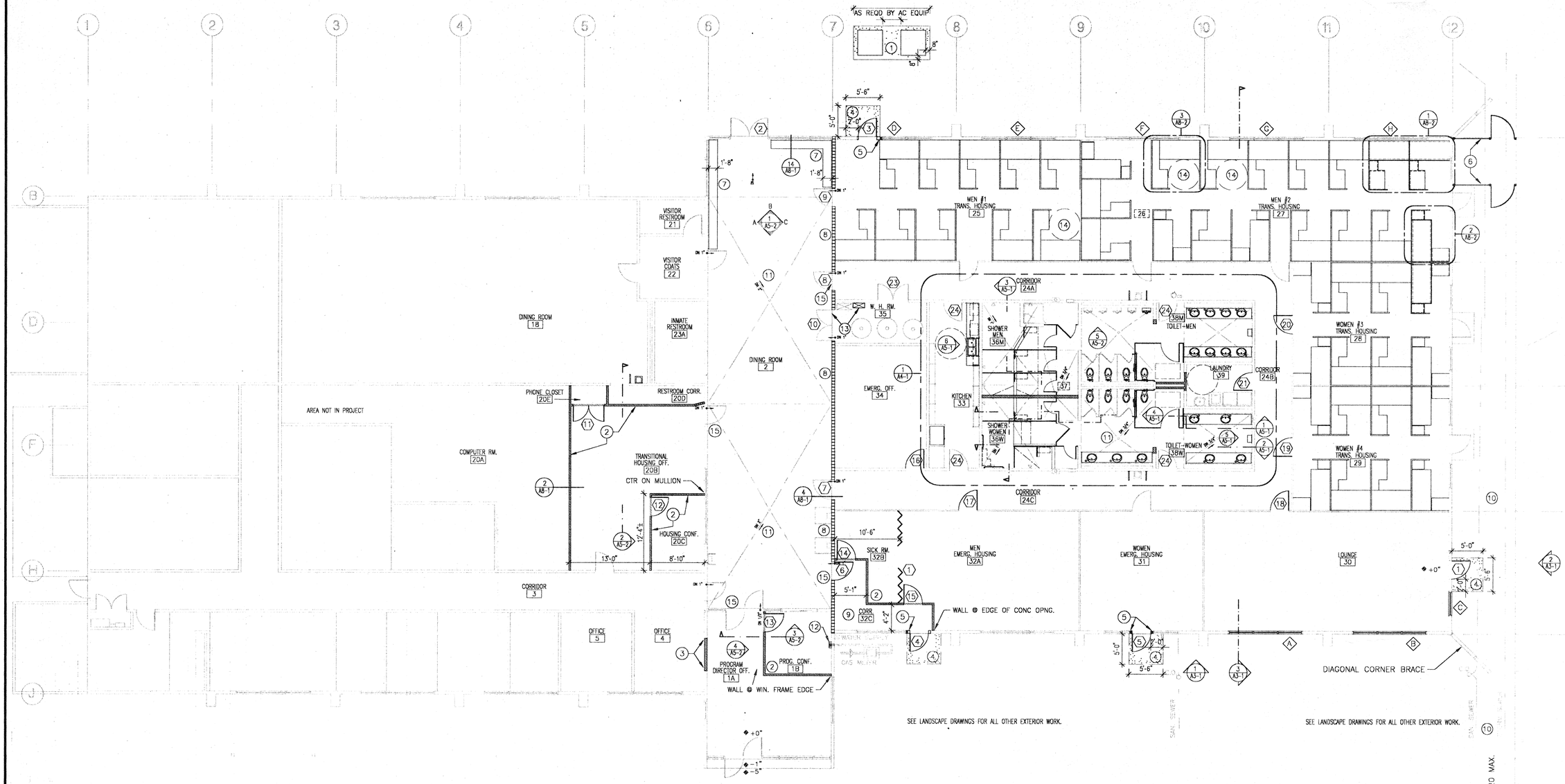
REVISIONS	
△	BID 6.3.98
△	
△	

HAGMAN ASSOCIATES ARCHITECTS
2400 BROADWAY SUITE 201
REDWOOD CITY, CA. 94063
(650) 364-5264

MAPLE STREET SELF-SUFFICIENCY SHELTER
COUNTY OF SAN MATEO
MAPLE ST. REDWOOD CITY, CALIFORNIA

DEMOLITION PLAN

DATE	5-22-98
SCALE	AS NOTED
DRAWN	EK, JB
JOB	-
SHEET	A1-1
OF 19 SHEETS	



FLOOR PLAN NUMBERED NOTES

1. 4" CONC. SLAB ON GRADE FOR A.C. COMPRESSORS WITH CLEARANCES PER MFGR. SEE MECH. SPEC.
2. NEW 1 HR. PARTITION, 2X4 STUDS @ 16" O.C., 5/8" TYPE X GYP. BD. EACH SIDE, W/ F.G. BATTS. SEE DETAIL 2/A8-1.
3. INFILL WALL FLUSH BOTH SIDES WITH CONT. BASE. SIMILAR TO DETAIL 2/A8-1.
4. CONCRETE LANDING: 4" THK. W/ 8" THICKENED EDGE, 1" BELOW INT. FLOOR AT WALL LINE, SLOPE AWAY AT 1/8" PER FT. SEE LANDSCAPE PLANS FOR CONTINUATION BEYOND THIS MIN. SIZE. SEE DET. 12/A8-1 FOR THRESHOLD RAMP.
5. REINFORCE WINDOW SIDE OF (N) DOOR FRAME 3X6 TS BOLTED HEAD TO SILL. SEE DETAIL 10/A8-1.
6. NEW DBL. CHAIN LINK SECURITY FENCE, 7' H. RELOCATE PARTS FROM EXISTING, SEE SHT. A1-1.
7. PLAM COUNTER WITH TALL BACKSPLASH, SEE INT. ELEV. AND DET. 14/A8-1.
8. EXISTING CONCRETE FIRE RATED AREA SEPARATION WALL TO ROOF.
9. EXIT CORRIDOR, 1 HR. CONSTRUCTION, WALL AND CEILING.
10. UNDERGROUND PIPING - USE CAUTION WITH WORK IN THIS AREA
11. EXIST. CONC. FLOOR SLOPES TO F.D.
12. ENCLOSE GAS RISER PIPE WITH 2X STUDS AND GYP. BD.
13. FILL IN OPENING THRU CONC. WALL (SEE INT. ELEV.) SOLID WITH CONC. ADD HIGH AND LOW COMBUSTION AIR DUCT THRU ROOF. SIZE FOR TOTAL BTUH IN ROOM PER MECH. CODE.
14. WHEELCHAIR ACCESSIBLE TRANSITIONAL HOUSING UNIT, TYPICAL.
15. ADD THRESHOLD RAMP FOR WHEELCHAIR ACCESSIBILITY TYPICAL 5 PLACES PER DET. 4/A8-1.

LEGEND

- EXISTING WALL UNCHANGED UNLESS REFINISHED, SEE FIN. SCHED.
- NEW PARTITION, 2X4 STUDS @ 16" O.C.,5/8" GYP. BD. EACH SIDE, W/ F.G. BATTS. SEE DETAIL 2/A8-1.
- EXISTING 8" CONC. WALL TO BE USED AS 2 HR. AREA SEPARATION WALL W/ OPENINGS PROTECTED PER U.B.C.
- REQUIRED WHEEL CHAIR CLEARANCE: 60" DIA. OR 30"X 48".
- NEW DOOR PER SCHED.
- NEW PLUMBING FIXTURES, SEE A4-1 AND MECHANICAL SPECIFICATIONS.
- NEW FURNITURE / CASEWORK INCLUDED IN CONTRACT.
- WALL CAB. ABOVE, TYP.
- APPLIANCES OR EQUIPMENT NOT INCLUDED.

REVISIONS	
1 BID 6-3-98	
2	
3	
4	
5	
6	

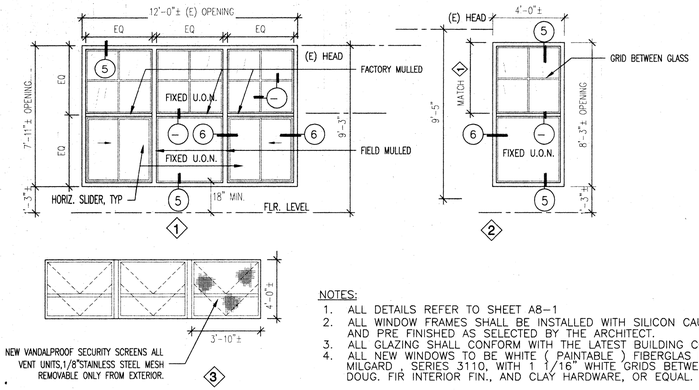
HAGMAN ASSOCIATES ARCHITECTS
2400 BROADWAY SUITE 201
REDWOOD CITY, CA 94063
(650) 364-5264

MAPLE STREET SELF-SUFFICIENCY SHELTER
COUNTY OF SAN MATEO
MAPLE ST.
REDWOOD CITY, CALIFORNIA

FLOOR PLAN

DATE	5-22-98
SCALE	AS NOTED
DRAWN	EK, JB
JOB	-
SHEET	A2-1
OF	19 SHEETS

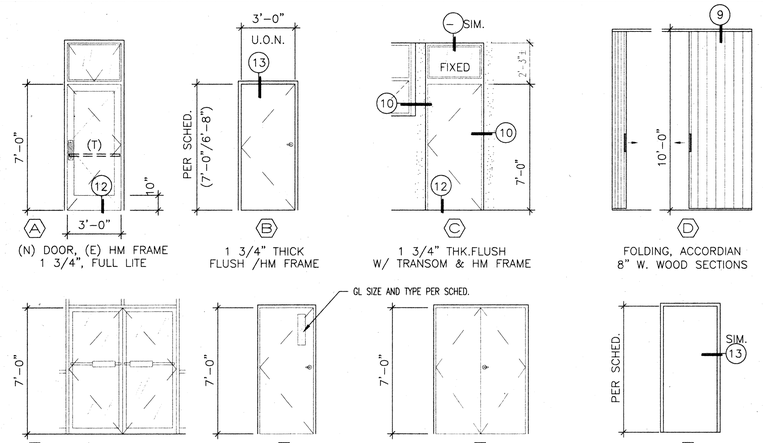
WINDOW TYPES



NOTES:

1. ALL DETAILS REFER TO SHEET A8–1
2. ALL WINDOW FRAMES SHALL BE INSTALLED WITH SILICON CAULKING AND PRE FINISHED AS SELECTED BY THE ARCHITECT.
3. ALL GLAZING SHALL CONFORM WITH THE LATEST BUILDING CODES
4. ALL NEW WINDOWS TO BE WHITE (PAINTABLE) FIBERGLAS FRAME, MILGARD , SERIES 3110, WITH 1 1/16" WHITE GRIDS BETWEEN GLAZING DOUG. FIR INTERIOR FIN., AND CLAY HARDWARE, OR EQUAL.

DOOR TYPES



NOTES:

1. ALL DETAILS REFER TO SHEET A8–1
2. ALL DOORS TO BE 1 3/4" THICK WITH 3/8" UNDERCUT U.O.N.
3. ALL DOOR ADJACENT TO WALLS ARE GIVEN AS 4" FROM FACE OF JAMB TO FACE OF ADJACENT WALL U.O.N.
4. DOOR MATERIAL ABBREVIATION ARE AS FOLLOW:
   SC SOLID CORE, HM HOLLOW METAL (STEEL), WD WOOD,
5. ON DOOR WITH SPLIT FINISH, FINISH THE EDGES WITH THE SAME FINISH AS THE ROOM SIDE OF THE DOOR.

DOOR HARDWARE SETS

	COMPONENT	HARDWARE SET NO. 1	2	3	4	5	6	7	8	9	10	11
HINGES 2	1. BUTT, PLAIN BEARING, TEMPLATE, 1 1/2 PR.								○			
	2. BUTT, BALL BEARING, TEMPLATE, 1 1/2 PR.	○			○		○	○		○	○	
	3. BUTT, SELF- CLOSING, BAMMER A300 OR EQ , 1 PR.											○
LOCKSETS 1, 2	1. PASSAGE FUNCTION							○				
	2. CLASSROOM FUNCTION	○	○						○	○	○	○
	3. STOREROOM FUNCTION											
	4. DEADLATCH, NIGHT LATCH FUNCTION.				○							
	5. EXIT ALARM KIT (VON DUPRIN # ALK) FOR EXIST. PANIC DEVCE (V.D. #22E036)			○								
DEVICE 2	1. CLOSER: 20 MIN. UL LABEL, NORTON 7500 SERIES, OR EQ.	○			○							
	2. CLOSER / MAGNETIC HOLDER, SLAVE UNIT, 20 MIN. UL LABEL, NORTON 7800 SERIES OR EQ. SEE NOTE 3.						○	○				
	3. AUTOMATIC FLUSH BOLTS, 20 MIN. RATED. (GLYNN–JOHNSON FB8 OR EQUAL).						○					
	4. SECURITY ENTRY CONTROL, MATCH EXIST. (SIMPLEX 1000 NUM LOCK), PASSAGE FUNCTION FROM INSIDE.	○										
MISC. 2	1. PULL PLATE, 4" X 16"				○							
	2. PUSH PLATE, 4" X 16"				○							
	3. KICK PLATE, 10" X 34", PUSH SIDE.				○							
	4. STOP, DOME TYPE, FLOOR MT. OF PROPER HT. FOR DOOR CLEARANCE.	○	○	○	○		○	○	○	○	○	○
	5. ASTRAGAL, 20 MIN. RATED						○					
	6. SMOKE BARRIER GASKETING PER UBC.	○			○		○	○				
	7. HINGE POCKET FILLER PLATES, MATCH (E) FRAME FIN.					○						
	8. STRIKE POCKET TO RECEIVE LATCH OF MATING DOOR OF PAIR						○					

NOTES:

1. ALL LOCKSETS TO MATCH RECENTLY INSTALLED EXIST. SCHLAGE A–SERIES, "LEVON", OR EQ. COUNTY SHALL APPROVE ALL FUNCTIONS PRIOR TO ORDERING.
2. ALL HARDWARE AND TRIM SHALL BE OIL RUBBED BRONZE FIN. (10B OR 613) EXCEPT RESTROOM INTERIOR SIDE SHALL BE SATIN STAINLESS STEEL FIN. (32D OR 630).
3. RELEASE ACTIVATION BY LOCAL AND INTERLOCKED BUILDING SMOKE DETECTORS.

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	NOT IN CONTRACT (NIC)	FLOOR: CARPET	VCT	PORCELIN TILE	PAINT "C" ON CONCRETE (EXIST)	EXISTING (NO CHANGE)	BASE: 4" RUBBER BASE (CARPET)	4" RUBBER BASE (VCT)	CERAMIC TILE	VINYL COVE BASE	EXISTING (NO CHANGE)	WALLS: NORTH: PAINT "A" ON GYP. BD. (NEW)	PAINT "B" ON GYP. BD. (NEW)	PAINT "A", PLASTER/GYPPANEL (E)	PAINT "B", PLASTER/GYPPANEL (E)	PAINT "C" ON CONCRETE (E)	EXISTING (NO CHANGE)	EAST: PAINT "A" ON GYP. BD. (NEW)	PAINT "B" ON GYP. BD. (NEW)	PAINT "A", PLASTER/GYPPANEL (E)	PAINT "B", PLASTER/GYPPANEL (E)	PAINT "C" ON CONCRETE (E)	EXISTING (NO CHANGE)	SOUTH: PAINT "A" ON GYP. BD. (NEW)	PAINT "B" ON GYP. BD. (NEW)	PAINT "A", PLASTER/GYPPANEL (E)	PAINT "B", PLASTER/GYPPANEL (E)	PAINT "C" ON CONCRETE (E)	EXISTING (NO CHANGE)	WEST: PAINT "A" ON GYP. BD. (NEW)	PAINT "B" ON GYP. BD. (NEW)	PAINT "A", PLASTER/GYPPANEL (E)	PAINT "B", PLASTER/GYPPANEL (E)	PAINT "C" ON CONCRETE (E)	EXISTING (NO CHANGE)	CEILING: PAINT "A" GLUED ON AC. TILE (E)	PAINT "B" ON PLASTER (EXIST)	EXISTING (NO CHANGE)	HEIGHT	REMARKS
1A	PROGRAM DIRECTOR OFF.		○					○					○					○			○								○		○				○			11'-7"±	PAINT"A"@ DUCT THRU WALL PANEL
1B	PROGRAM DIRECTOR CONF..		○					○					○					○			○				○				○					○			11'-7"±	PAINT"A"@ DUCT THRU WALL PANEL
2	DINING RM.	○																																			11'-7"±	
4	WORK FURLOUGH OFF.						○					○	○					○	○					○					○						○		10'-0"	PAINT"A"@ DOOR INFILL ONLY
20A	COMPUTER RM.		○					○										○	○					○					○						○		10'-0"	
20B	TRANSITION HOUSING OFF.		○					○					○							○					○					○				○			10'-0"	
20C	TRANS. HOUSING CONF.						○					○	○							○						○				○				○			10'-0"	
20D	RESTROOM CORRIDOR						○					○						○	○										○						○		10'-0"	
20E	PHONE CLOSET						○					○						○	○						○					○					○		10'-0"	
24A	CORRIDOR		○					○							○											○								○			10'-0"	
24B	CORRIDOR		○					○													○					○								○			10'-0"	
24C	CORRIDOR		○					○							○											○								○			10'-0"	
25	MEN, #1 TRANSITIONAL HOUSING		○					○									○	○						○					○						○		10'-0"	PAINT"C"@ SAWCUT WALL & STL. TUBE
27	MEN, #2 TRANSITIONAL HOUSING		○					○									○	○						○					○						○		10'-0"	PAINT"A"@ DEMO WALL
28	WOMEN, #3 TRANSITIONAL HOUSING		○					○										○						○					○						○		10'-0"	
29	WOMEN, #4 TRANSITIONAL HOUSING		○					○										○						○					○						○		10'-0"	
30	LOUNGE	○																																			10'-0"	
31	WOMEN, EMERGENCY HOUSING		○					○										○						○					○						○		10'-0"	PAINT"C"@ SAWCUT WALL & STL. TUBE
32A	MEN, EMERGENCY HOUSING		○					○										○	○					○					○	○					○		10'-0"	PAINT"A"@ DEMO LITE FIX.
32B	SICK RM.		○					○										○	○					○					○	○					○		10'-0"	PAINT"A"@ DEMO LITE FIX.
32C	CORRIDOR			○					○				○						○										○						○		10'-0"	PAINT@ SAWCUT WALL & TUBE, DEMO LITE
33	KITCHEN			○					○					○						○						○				○					○		10'-0"	
34	EMERGENCY OFF.		○					○							○						○					○						○				10'-0"	
35	WATER HEATER RM.	○																																			10'-0"	
36M	MEN, SHOWER				○					○		○				○						○						○				○			○		8'-10"±	PATCH WALL TILE PER INT. ELEV.
36W	WOMEN, SHOWER				○					○		○				○						○						○				○			○		8'-10"±	PATCH WALL TILE PER INT. ELEV.
38M	MEN, TOILET					○						○				○						○						○				○			○		10'-0"	PATCH WALL TILE PER INT. ELEV.
38W	WOMEN, TOILET					○						○				○						○						○				○			○		10'-0"	PATCH WALL TILE PER INT. ELEV.
39	LAUNDRY					○						○					○						○						○				○				10'-0"	

WINDOW SCHEDULE

NO.	TYPE	WINDOW: ROUGH OPENING±	MATERIAL	FINISH	GLAZING	DETAIL: SILL	JAMB	MULL	HEAD	REMARKS
A–B	1	12'–0" X 7'–11"	F.G.	FACTORY, WHT.	INSUL.,3/4",LOW–E,	–/A8–1	–/A8–1	–/A8–1	–/A8–1	–
C	2	4'–0" X 8'–3"	F.G.	FACTORY, WHT.	INSUL.,3/4",LOW–E,					
D–H	3	12'–0" X 4'–0"	S.S.	S.S.	SCREEN ONLY					

FINISH TYPES

CARPET:	SEE SPECIFICATIONS
CERAMIC FLOOR TILE:	SEE SPECIFICATIONS
CERAMIC TILE GROUT:	SEE SPECIFICATIONS
SHEET VINYL:	SEE SPECIFICATIONS
VCT:	SEE SPECIFICATIONS
RUBBER BASE	SEE SPECIFICATIONS
PAINT "A" EGG SHELL	SEE SPECIFICATIONS
PAINT "B" SEMI GLOSS ENAMEL	SEE SPECIFICATIONS
PAINT "C" CONCRETE, ENAMEL	SEE SPECIFICATIONS

DOOR SCHEDULE

NO.	TYPE	DOOR: OPENING	MTL	FINISH	GLAZING	(N)/(E)	FRAME: MTL	FINISH	(N)/(E)	DETAIL AT NEW WORK: SILL	JAMB	HEAD	INT/ EXT	FIRE LABEL	HDW. GROUP	REMARKS
1	A	3'–0" x 7'–0"	STL.	PAINT	SING., TEMPERED	(N)	STL.	PAINT	(E)	–/A8–1	–/A8–1	–/A8–1	EXT		–	MODIFY (CUT,WELD, PATCH) FRAME TO REVERSE HANDING OF OUT SWINGING DOOR.
2	E	6'–0" x 7'–0"	ALUM.	UNCHGD.	UNCHANGED	(E)	ALUM.	UNCHANGED	(E)	–			EXT		–	–
3	C	3'–0" x 9'–3"	STL.	PAINT	SING.TEMP.@ TRANSOM	(N)	STL.	PAINT	(N)	–			EXT			
4	C	3'–0" x 9'–3"	STL.	PAINT	SING.TEMP.@ TRANSOM	(N)	STL.	PAINT	(N)	–			EXT			
5	C	3'–0" x 9'–3"	STL.	PAINT	SING.TEMP.@ TRANSOM	(N)	STL.	PAINT	(N)	–			EXT			
6	B	3'–0" x 7'–0"	STL.	PAINT		(N)	STL.	PAINT	(N)	–			INT	90 MIN.		CONFIRM (E) MEETS THESE REQUIREMENTS
7	F	3'–0" x 7'–0"	STL.	PAINT	1/4" WIRE,100 SQ.IN.	(E)	STL.	PAINT	(E)	–			INT	90 MIN.		CONFIRM (E) MEETS THESE REQUIREMENTS
8	F	3'–0" x 7'–0"	STL.	PAINT	1/4" WIRE,100 SQ.IN.	(E)	STL.	PAINT	(E)	–			INT	90 MIN.		CONFIRM (E) MEETS THESE REQUIREMENTS
9	F	3'–0" x 7'–0"	STL.	PAINT	1/4" WIRE,100 SQ.IN.	(E)	STL.	PAINT	(E)	–			INT	90 MIN.		CONFIRM (E) MEETS THESE REQUIREMENTS
10	G	5'–0" x 7'–0"	STL.	PAINT		(E)	STL.	PAINT	(E)	–			INT	90 MIN.		CONFIRM (E) MEETS THESE REQUIREMENTS
11	G	5'–0" x 7'–0"	WD	STAIN		(N)	STL.	PAINT	(N)	–			INT			
12	B	3'–0" x 7'–0"	WD	STAIN		(N)	STL.	PAINT	(N)	–			INT			
13	B	3'–0" x 7'–0"	WD	STAIN		(N)	STL.	PAINT	(N)	–			INT			
14	B	3'–0" x 7'–0"	WD	STAIN		(N)	STL.	PAINT	(N)	–			INT	20 MIN.		
15	B	3'–0" x 7'–0"	WD	STAIN		(N)	STL.	PAINT	(N)	–			INT	20 MIN.		
16	B	3'–0" x 6'–8"	WD	UNCHGD.		(E)	STL.	PAINT	(E)	–			INT			REINSTALL (E) DOOR STORED ON SITE, CHANGE LOCKSET. MEET SMOKE BARRIER REQUIREMENTS.
17	B	3'–0" x 6'–8"	WD	UNCHGD.		(E)	ALUM.	UNCHGD.	(E)	–			INT			
18	B	3'–0" x 6'–8"	WD	UNCHGD.		(E)	ALUM.	UNCHGD.	(E)	–			INT			
19	B	3'–0" x 6'–8"	WD	UNCHGD.		(E)	ALUM.	UNCHGD.	(E)	–			INT			
20	B	3'–0" x 6'–8"	WD	UNCHGD.		(E)	ALUM.	UNCHGD.	(E)	–			INT			
21	D	15'–0" x 10'–0"	WD	FACTORY		(N)	STL.	PAINT	(N)	–			INT	20 MIN.		MEET SMOKE BARRIER REQUIREMENTS INCLUDING CLOSER, 1 3/8" SC, GASKET, ETC.
22	B	3'–0" x 7'–0"	WD	STAIN		(N)	STL.	PAINT	(N)	–			INT			
23	G	5'–0" x 6'–8"	STL.	PAINT		(E)	STL.	PAINT	(E)	–			INT	60 MIN.		CONFIRM (E) MEETS LABEL AND SMOKE BARRIER REQUIREMENTS.
24	B	3'–0" x 6'–8"	WD	UNCHGD.		(E)	STL.	PAINT	(E)	–			INT			MEET SMOKE BARRIER REQUIREMENTS: ADD CLOSER IF MISSING, CONFIRM 1 3/8" SC, GASKET, ETC.

REVISIONS
1 BID 6-3-98

HAGMAN ASSOCIATES ARCHITECTS
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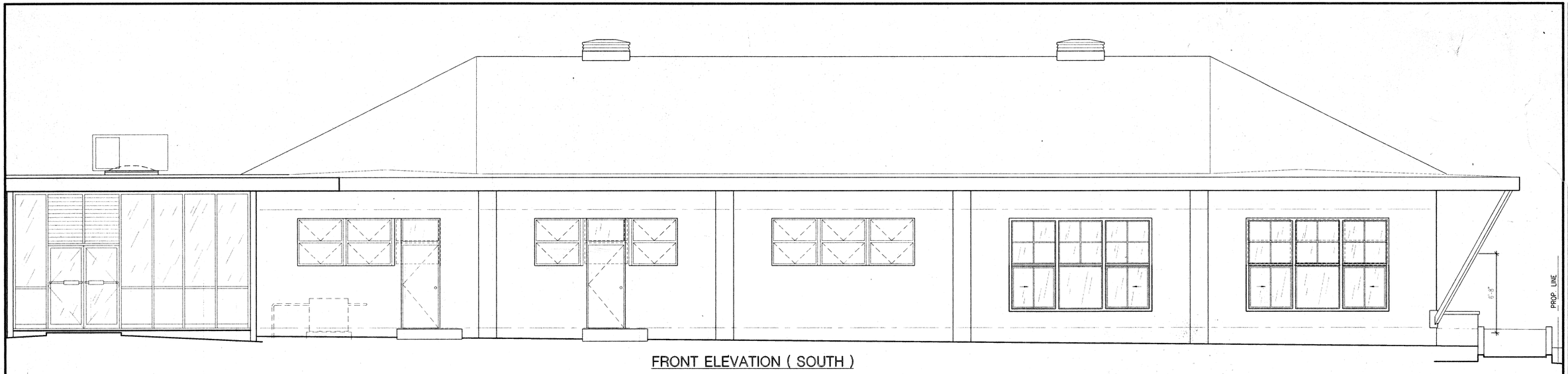
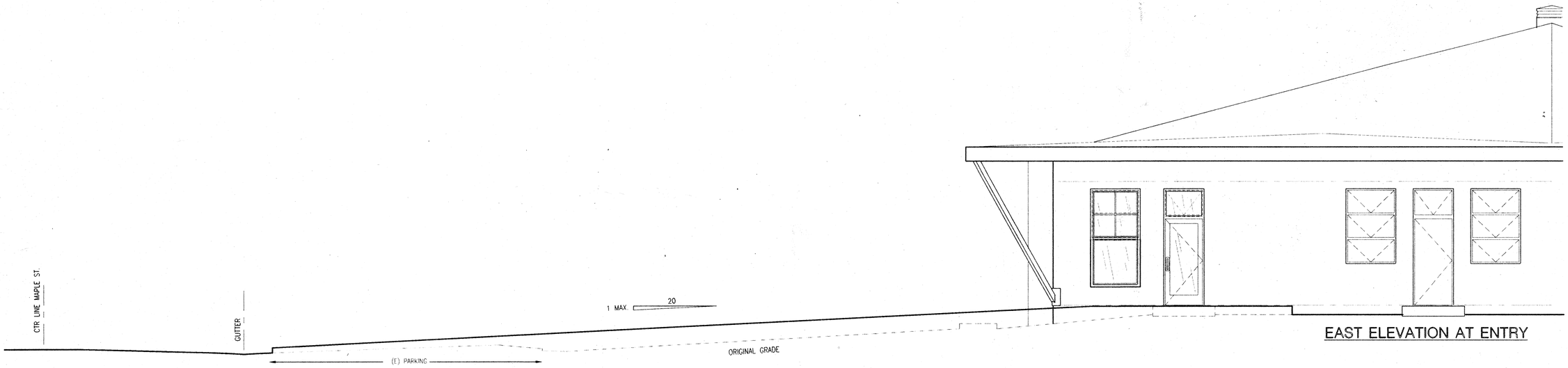
MAPLE STREET SELF-SUFFICIENCY SHELTER
COUNTY OF SAN MATEO
REDWOOD CITY, CALIFORNIA
MAPLE ST.

DOOR, WINDOW & FINISH SCHEDULES

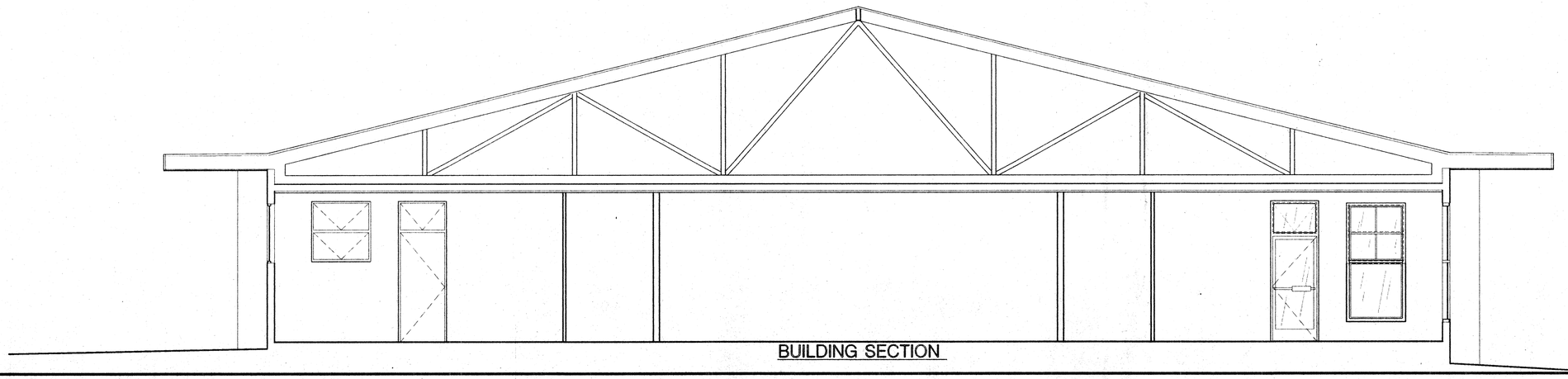
DATE 5-22-98
SCALE AS NOTED
DRAWN EK, JB
JOB –
SHEET A2-2
OF 19 SHEETS



FRONT ELEVATION (SOUTH)



EAST ELEVATION AT ENTRY



BUILDING SECTION

REVISIONS

△ BID 6-3-98	
△	
△	

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MAPLE STREET SELF-SUFFICIENCY SHELTER
COUNTY OF SAN MATEO
MAPLE ST. REDWOOD CITY, CALIFORNIA

BUILDING SECTION
EXTERIOR ELEVATIONS

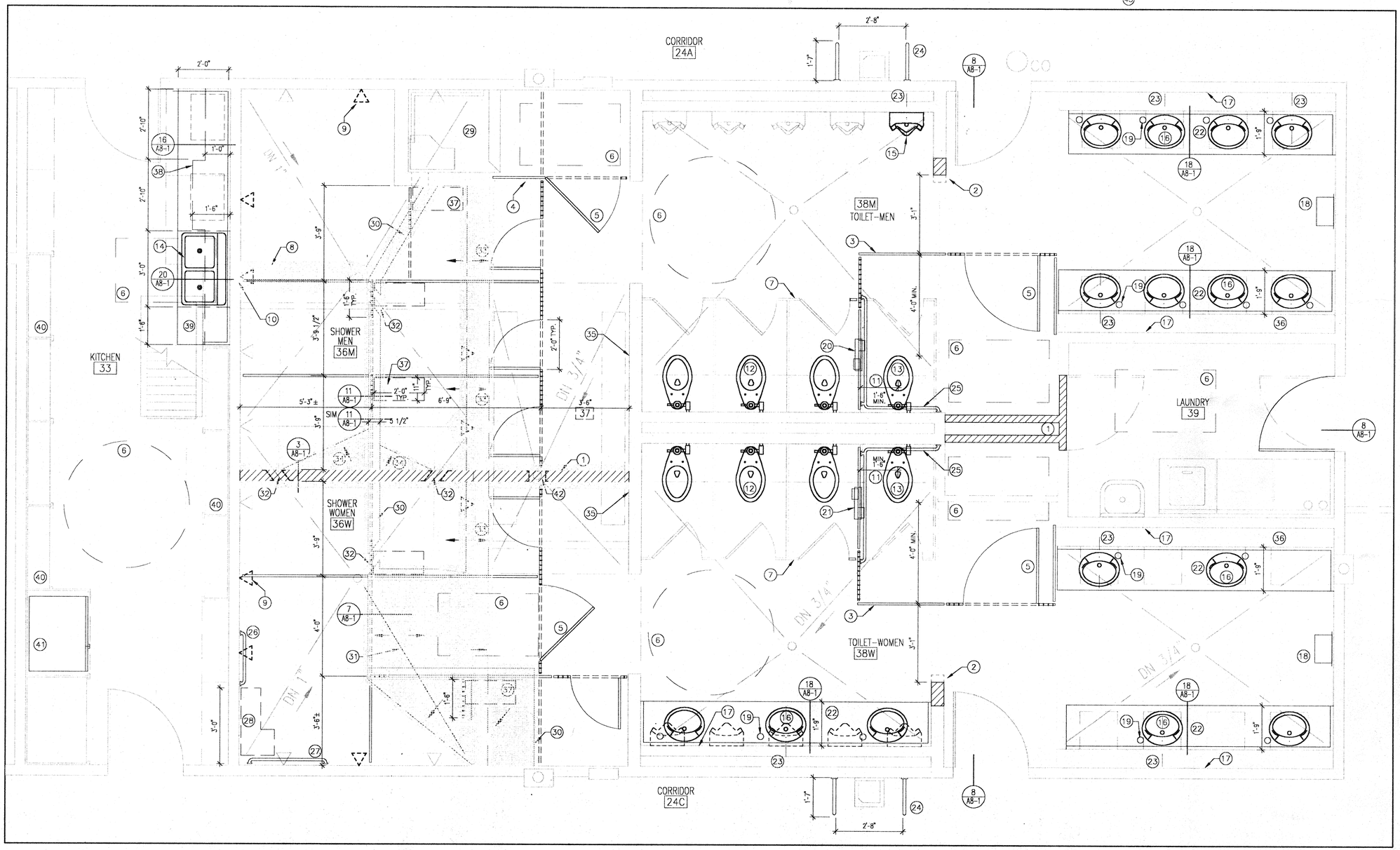
DATE	4-5-98
SCALE	AS NOTED
DRAWN	EK, JB
JOB	-
SHEET	A3-1
OF	22 SHEETS

FLOOR PLAN NUMBERED NOTES

1. NEW PARTITION, 2X4 STUDS @ 16" O.C.,5/8" WATERPROOF GYP. BD. EACH SIDE (CEMENT BACKER BOARD AT TILE AREAS). SEE DETAIL 3/A8-1.
2. SHORTEN WALL TO ALLOW 36" MIN. CLEAR TO NEW TOILET PARTITION. PATCH TILE AND PAINT TO MATCH EXIST.
3. TOILET PARTITIONS, PAINTED GALV. STEEL, FLOOR MOUNTED w/ OVERHEAD RAIL (58"H. PANELS @ 70" A.F.F. RAIL @ 82"). SEE LEGEND BELOW AND INT. ELEV.
4. SHOWER PARTITIONS, PAINTED GALV. STEEL, FLOOR MOUNTED w/ OVERHEAD RAIL (67"H. PANELS @ 70" A.F.F. RAIL @ 82"). SEE LEGEND BELOW AND INT. ELEV.
5. 36" TOILET / SHOWER PARTITION DOOR AT WHEELCHAIR ACCESSIBLE STALL, TYP.
6. CONFIRM REQUIRED WHEELCHAIR CLEARANCE; 60" DIA. CIRCLE OR 30" X 48" SPACE MIN. PRESENT IN ROOM.
7. EXISTING TOILET PARTITIONS TO REMAIN, PAINT TWO COATS ENAMEL TO MATCH NEW PARTITIONS.
8. SAW CUT CONC. SLAB FOR WASTE PIPE EXTENSION TO NEW KITCHEN SINK, REPLACE WITH 4" CONC. PATCH MOSAIC TILE TO MATCH COLOR AND SLOPE.
9. REMOVE SHOWER VALVE AND HEAD, CAP PIPES, (DO NOT INTERRUPT FLOW TO REMAINING VALVES). PATCH WALL AND TILE TO MATCH. TYPICAL 8 PLACES.
10. REMOVE SHOWER VALVES, CAP PIPES, (DO NOT INTERRUPT FLOW TO REMAINING VALVES). EXTEND HOT AND COLD TO NEW KITCHEN SINK. PATCH WALL AN TILE TO MATCH (E).
11. 1'-6" FROM CTR. LINE OF W.C. TO FINISHED WALL ADJACENT.
12. FLOOR MOUNT WATERCLOSET, TYP. OF 6. SELECT MODEL THAT WILL ALLOW REUSE OF EXIST. WASTE LINE AND FLUSH VALVE. RIM TO BE ± 15" A.F.F. W/ SEAT.
13. FLOOR MOUNT WATERCLOSET, TYP. OF 2 AT HANDICAPPED STALLS. SELECT MODEL THAT WILL ALLOW REUSE OF EXIST. WASTE LINE AND FLUSH VALVE. RIM TO BE ± 17" A.F.F. W/ SEAT.
14. KITCHEN SINK, STAIN. STL. W/ NON-ABRASIVE UNDERSIDE, JUST MOD. JVS-1515-GR W/ AMER. STD. "HERITAGE" VALVE. INSUL. WASTE AND HOT SUPPLY PER NOTE 16.
15. WALL HUNG URINAL, TYP. OF 1 W/ RIM TOP AT 17" A.F.F. REMOUNT EXISTING IF POSSIBLE OR PROVIDE AMER. STD."ALLBROOK 1.0" OR EQ.
16. LAVATORY, C.I., COUNTERTOP RIM MT., AMER. STD. LEDGELYN, WITH A.S. "RELIANT" FAUCET, OR EQ. INSUL. WASTE AND HOT SUPPLY W/ REMOVEABLE MOLDED COVER BY TCI OR TRUEBRO, TYP. 15 PLACES.
17. MIRROR, SURFACE MOUNTED (BOTTOM @ 40" A.F.F.). SIZE AS AT INT. ELEV. SHOWN.
18. PAPER TOWEL DISPENSER & WASTE RECEPTACLE, SURFACE MOUNT, W/ SKIRT (TOWEL SLOT @ 40" A.F.F.), BOBRICK B-3949.
19. SOAP DISPENSER, COUNTERTOP MOUNTED, BOBRICK B-8221.
20. TOILET SEAT COVER AND TOILET TISSUE DISPENSER, DBL. SIDED, THRU TOILET PARTITION (FLUSH ON WHEELCHAIR STALL SIDE), BOBRICK B-3471 (TOP OF UNIT 45 3/4" A.F.F.).
21. TOILET SEAT COVER, SAN. NAPKIN DISPOSAL, AND TOILET TISSUE DISPENSER, DBL. SIDED, THRU TOILET PARTITION (FLUSH ON WHEELCHAIR STALL SIDE), BOBRICK B-3471 (TOP OF UNIT 45 3/4" A.F.F.).
22. COUNTERTOP W/ BACKSPLASH, PLASTIC LAM., 24"D., SIMILAR TO DETAIL 18/A8-1 W/ PLAM SUPPORT PANELS SCREWED THRU WALL TILE INTO STUD, SEE INT. ELEV.
23. CENTER (N) FIXTURE ON (E) FIX. LOCATION AND REUSE WASTE W/O DISRUPTING WALL TILE.
24. WING WALL BARS AT (E) DRINKING FOUNTAIN, BOBRICK B-4964, SHORTEN HORIZ. PORTION TO 19" (18" MIN.).
25. TOILET GRAB BAR, 2-WALL, BOBRICK B-4937, W/ 258 ANCHOR PLT. FOR TOILET PART. ENDS AND WOOD SCREW THRU TILE INTO STUD AT WALL END (CTR. AT 33" A.F.F.).
26. SHOWER GRAB BAR, BOBRICK B-490 X 24", W/ WOOD SCREW THRU (E) TILE INTO 4X BLKG. ADDED FROM OPP. SIDE OF WALL (CTR. AT 34" A.F.F.).
27. SHOWER GRAB BAR, BOBRICK B-490 X 36", W/ WOOD SCREW THRU (E) TILE INTO 4X BLKG. ADDED FROM OPP. SIDE OF WALL (CTR. AT 34" A.F.F.).
28. SHOWER FOLDING SEAT, BOBRICK B-5171, W/ WOOD SCREW THRU (E) TILE INTO 4X BLKG. ADDED FROM OPP. SIDE OF WALL (TOP AT 18" A.F.F.).
29. EXISTING ACCESSABLE SHOWER STALL UNCHANGED.
30. CONC. DAM (CUT INTO FLOOR) WITH MATCHING MOSAIC TILE. SEE DETAIL 11/A8-1.
31. CONC. RAMP DAM (CUT INTO FLOOR)AT WHEELCHAIR ACCESSABLE SHOWER WITH MATCHING MOSAIC TILE. SEE DETAIL 7/A8-1.
32. SCUPPER 6" W. THRU CONC. DAM (OR CURB UNDER WALL) WITH MATCHING MOSAIC TILE.
33. PATCH FLOOR TILE WHERE WALL IS REMOVED AND SLOPE TOWARD DRAIN IN ORIG. DRESSING AREA [37]. REMOVE ADDITIONAL FLOOR AREA FROM SHOWER TO REDUCE HEIGHT OF SLOPE.
34. REMOVE AREA OF FLOOR TILE AND BUILD UP COUNTER-SLOPE (1/4" PER FT. MIN.) TOWARD (E) DRAIN W/ MATCHING TILE.
35. PATCH WALL TILE TO MATCH (E) WHERE WALL HUNG BENCH IS REMOVED.
36. REMOVE (E) WALL TILE FROM ABOVE SPLASH AND LEDGE (REUSE FOR PATCHING ELSEWHERE) RETILE AREA W/ MATCHING TILE.
37. WOOD SEAT HUNG FROM WALL OR TOILET PARTITION WITH PARTITION BRACKETS, V.G DF. W/ 4 COATS W.P. VARNISH. SEE DETAIL 11/A8-1.
38. WALL HUNG CABINETS (12" D.) W/ MICROWAVE SHELF (18" D.). MICROWAVES (N.I.C.) SHOWN DASHED.
39. COUNTERTOP (24" D. PLAM) W/ BACK AND END SPLASHES OVER BASE CABINETS, SEE INT. ELEV.
40. SHELVING CASES WITH ADJUSTABLE STANDARD TRACK TO REMAIN. PROVIDE (N) PLAM WRAPPED SHELVES (4 PER SECTION).
41. REMOVE SHELVES AND BASE TO FLOOR TO ALLOW FOR REFRIGERATOR (N.I.C.). ADD FLOORING TO MATCH ROOM. SEE ELECTRICAL FOR (N) OUTLET.
42. PROVIDE VERTICAL CUTOUT IN WALL (ON WOMEN'S SIDE) 6" W. TO 18" A.F.F. FOR DRAIN SERVICING. COVER WITH PAINTED STEEL PLATE WITH WOOD SCREWS.
43. –

LEGEND

- (E) TOILET PARTITION SYSTEM UNCHANGED.
- (N) TOILET OR SHOWER PARTITION WALL PANEL OR DOOR. SEE NOTES 3 & 4.
- (N) TOILET OR SHOWER PARTITION PILASTER. SEE NOTES 3 & 4.
- (N) TOILET OR SHOWER PARTITION OVERHEAD RAIL. SEE NOTES 3 & 4.
- (N) FLOOR TILE, 1" MOSAIC TO MATCH (E), APPROX. AREA REQUIRING WORK.



1 DETAIL FLOOR PLAN AT RESTROOMS AND KITCHEN

SCALE: 1/2" = 1'– 0"

REVISIONS	
△ BID 6.3.98	
△	
△	

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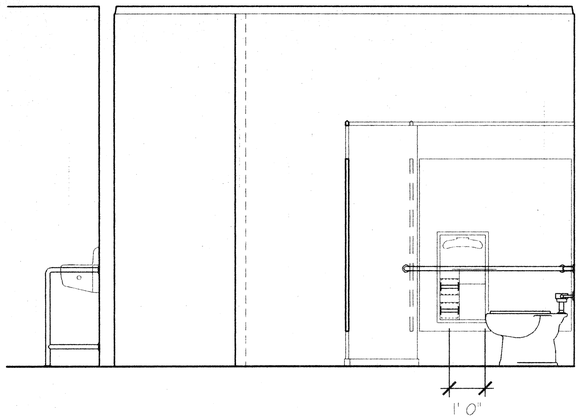
MAPLE STREET SELF-SUFFICIENCY SHELTER
COUNTY OF SAN MATEO
MAPLE ST. REDWOOD CITY, CALIFORNIA

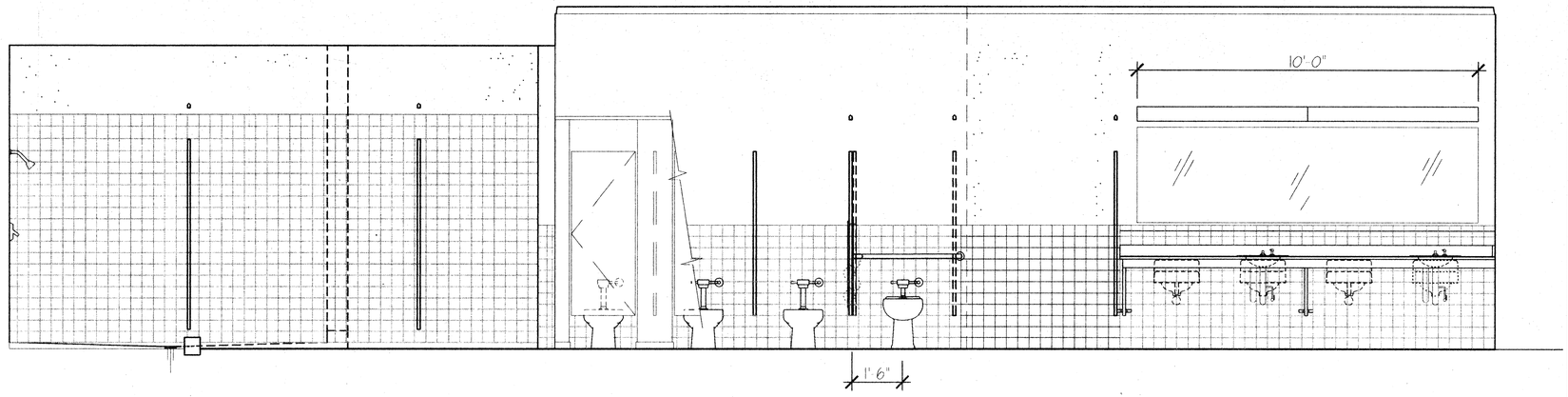
DETAIL FLOOR PLAN
KITCHEN AND RESTROOMS

DATE	5-22-98
SCALE	AS NOTED
DRAWN	EK, JB
JOB	–
SHEET	A4-1
OF	19 SHEETS



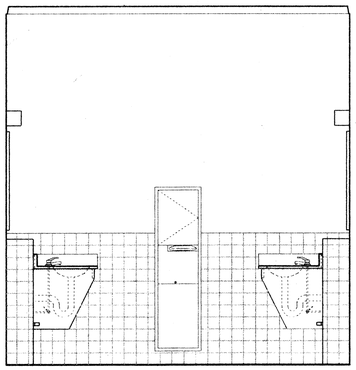
4 A5.1 WOMEN'S RESTROOM – W. ELEVATION AT NEW TOILET STALL

1/2" = 1'-0"



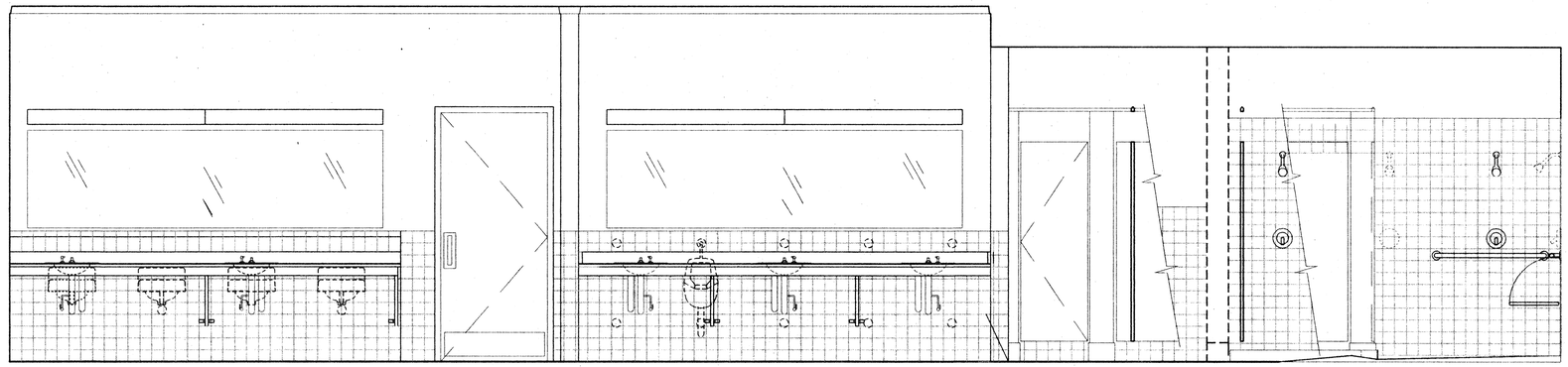
1 A5.1 WOMEN'S RESTROOM – NORTH ELEVATIONS

1/2" = 1'-0"



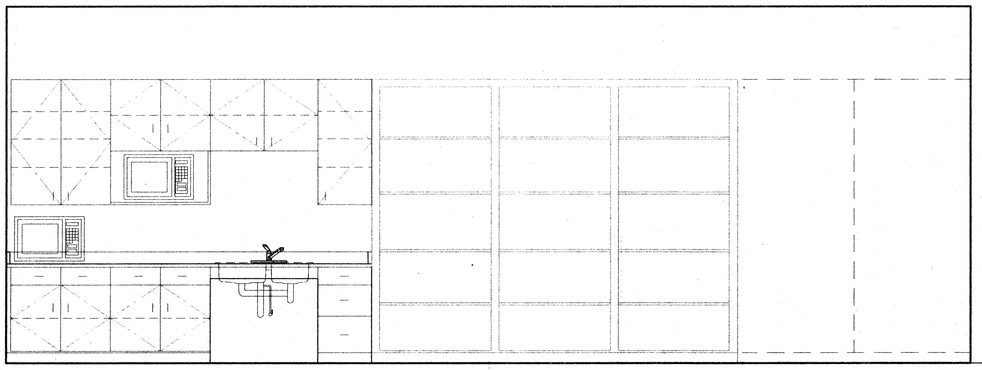
5 A5.1 WOMEN'S RESTROOM – EAST ELEVATIONS

1/2" = 1'-0"



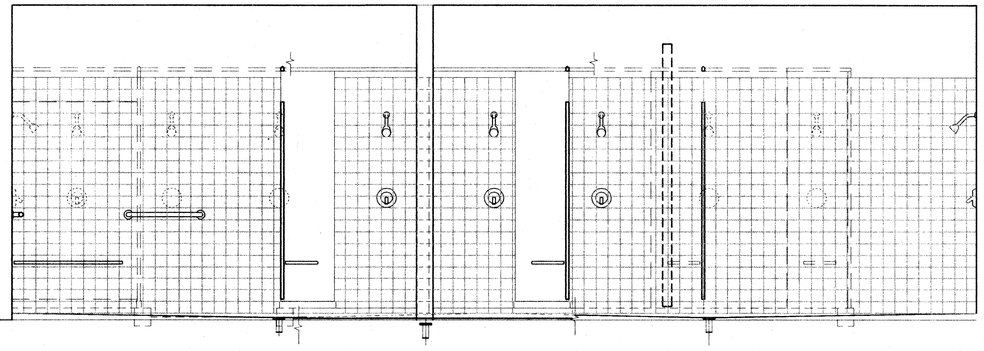
2 A5.1 WOMEN'S RESTROOM – SOUTH ELEVATIONS

1/2" = 1'-0"



6 A5.1 KITCHEN – EAST ELEVATION

1/2" = 1'-0"



3 A5.1 SHOWERS – WEST ELEVATIONS

1/2" = 1'-0"

REVISIONS

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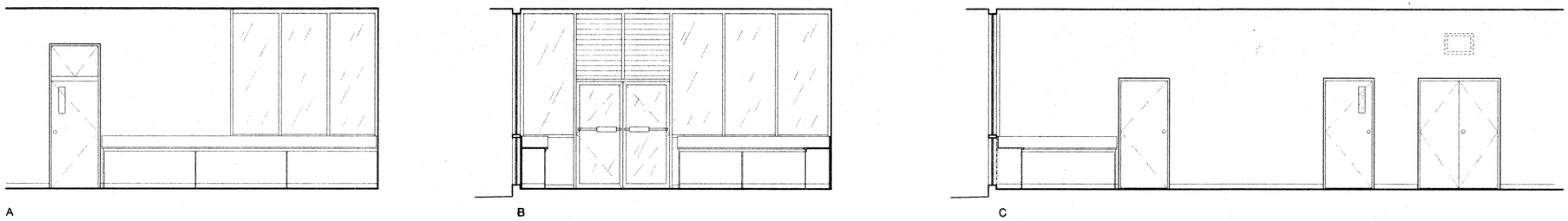
COUNTY OF SAN MATEO

MAPLE ST.
REDWOOD CITY, CALIFORNIA

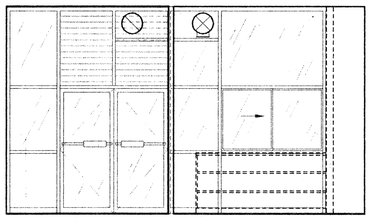
INTERIOR ELEVATIONS

DATE 4-10-98
SCALE AS NOTED
DRAWN EK, JB
JOB –
SHEET A5-1
OF 22 SHEETS



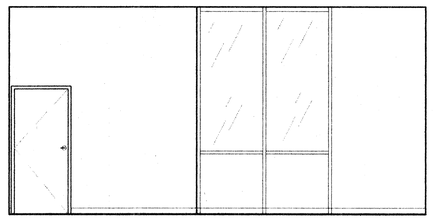
1 / A5.2 DINING ROOM – NORTH END

1/4" = 1'-0"



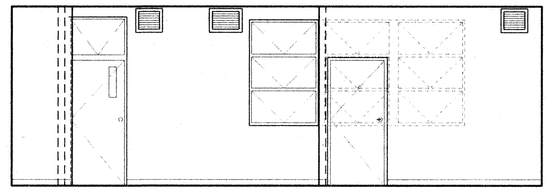
4 / A5.2 PROG. DIR. OFFICE AND CONF. RM. – NORTH

1/4" = 1'-0"



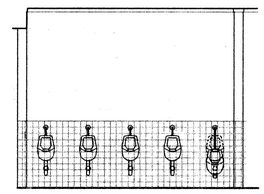
3 / A5.2 PROG. DIR. OFFICE AND CONF. RM.–EAST

1/4" = 1'-0"



2 / A5.2 TRANSITIONAL HOUSING OFFICE – EAST

1/4" = 1'-0"



3 / A5.2 MEN'S TOILET – URINAL AREA

1/4" = 1'-0"

REVISIONS

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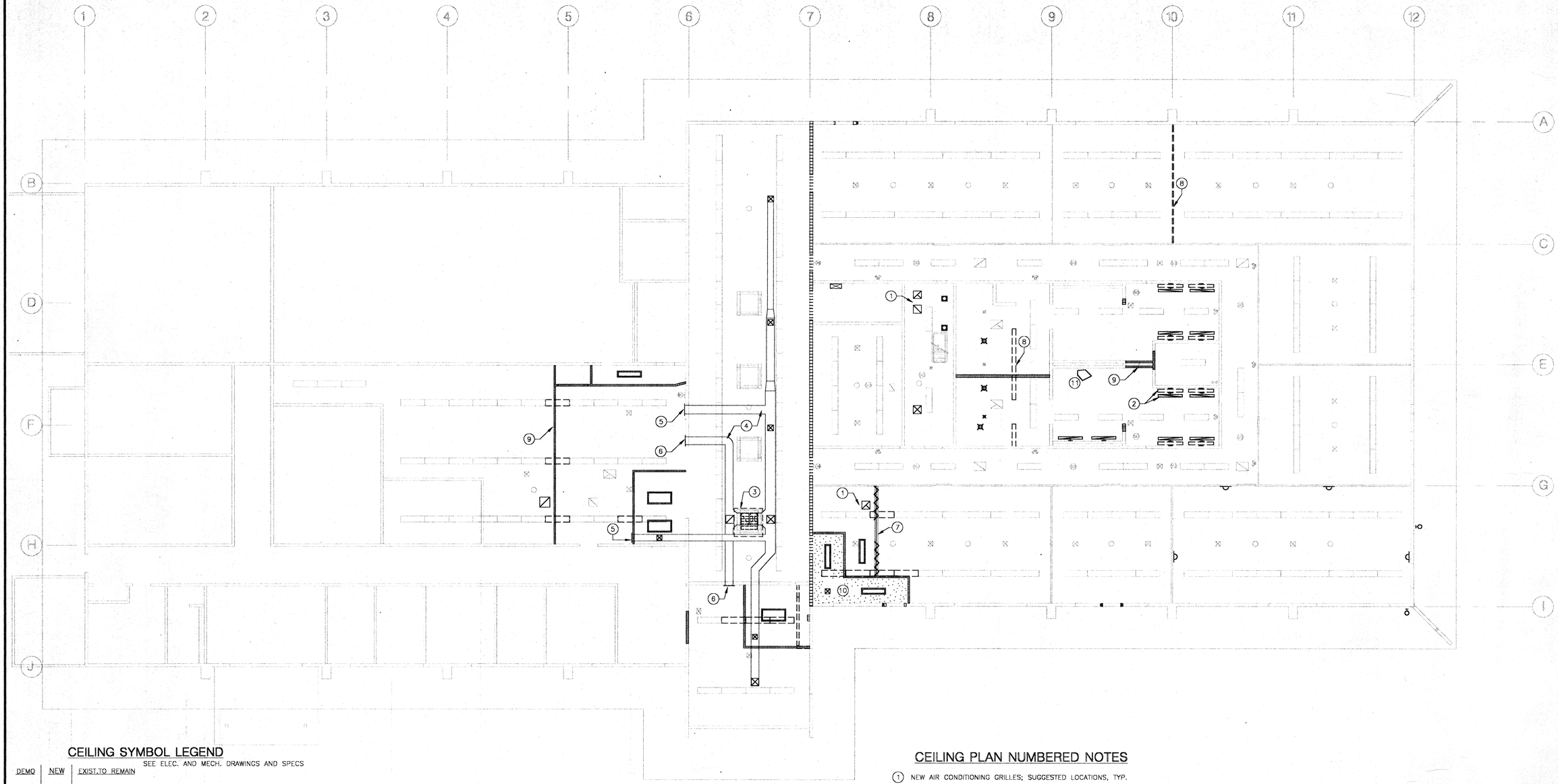
INTERIOR ELEVATIONS

DATE 4-10-98
SCALE AS NOTED
DRAWN EK, JB
JOB –
SHEET A5-2
OF 22 SHEETS



CEILING SYMBOL LEGEND

SEE ELEC. AND MECH. DRAWINGS AND SPECS

DEMO	NEW	EXIST.TO REMAIN	
			RECESSED DOWN LIGHT (UL DAMP LABEL IN RESTROOMS)
			EXHAUST FAN W/ FLUORSCENT LIGHT COMBINATION (BROAN MODEL S120FL W/66W WALL SWITCH, U.N.O.)
			CEILING LIGHT OUTLET, DAMP PROOF WHERE NOTED
			WALL MOUNTED LIGHT OUTLET
			WALL SCONCE LIGHT
			FLUORESCENT LIGHT, WALL MT..
			FLUORESCENT LIGHT, 1'X4' SURFACE MT. TYP.
			SMOKE DETECTOR (HOT WIRED W/ BATTERY BACKUP)
			ATTIC ACCESS PANEL (MIN. 22" x 30")
			SUPPLY AIR REGISTER
			RETURN AIR REGISTER
			P. A. SPEAKER
			EXIT SIGN, ILLUM. (WALL MT. SHOWN)
			EMERGENCY EXIT PATH ILLUM., W/ BATTERY
			PARTITION, FULL HT. SEE NOTES 8 AND 9.
			CONCRETE AREA SEPARATION WALL, 8", 2 HR. SEE SHT. A2-1.

CEILING PLAN NUMBERED NOTES

1. NEW AIR CONDITIONING GRILLES; SUGGESTED LOCATIONS, TYP.
2. REPLACE LIGHT FIXTURES ABOVE MIRRORS
3. REMOVE A.C. UNIT FROM ROOF ALONG WITH SHUTTER IN SKYLIGHT OPENING. LEAVE CURB WATER TIGHT. PROVIDE NEW GAS/ELEC. PACKAGE HVAC UNIT ON ROOF ABOVE, SEE MECH. SPECS.
4. EXPOSED SPIRAL ROUND DUCTS SUSPENDED FROM CEILING, SEE MECH. SPECS.
5. SIDEWALL HVAC SUPPLY DIFFUSERS, WITH FIRE DAMPER IF REQUIRED.CONFIRM STATUS PRIOR TO BID.
6. SIDEWALL HVAC RETURN DIFFUSERS, WITH FIRE DAMPER IF REQUIRED.CONFIRM STATUS PRIOR TO BID.
7. NEW FOLDING DOOR TRACK, SURFACE MOUNT AND SOFFFIT. SEE DETAIL 9/A8-1.
8. PATCH AND PAINT PLASTER AREA SURROUNDING WALL DEMOLITION. SEE FIN. SCHEDULE.
9. CUT, PATCH AND PAINT PLASTER AREA SURROUNDING WALL CONSTRUCTION. SEE FIN. SCHEDULE.
10. NEW CORRIDOR CEILING, SEE DETAIL 1/A8-1.
11. PATCH AND PAINT DAMAGED PLASTER CEILING.
12. –

REVISIONS	
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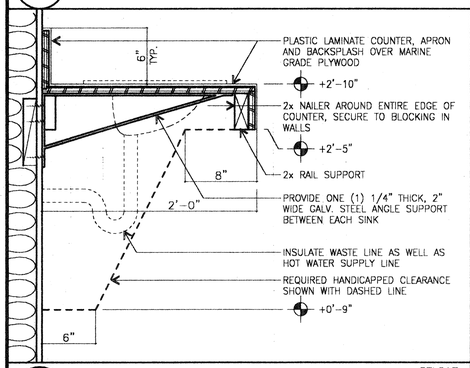
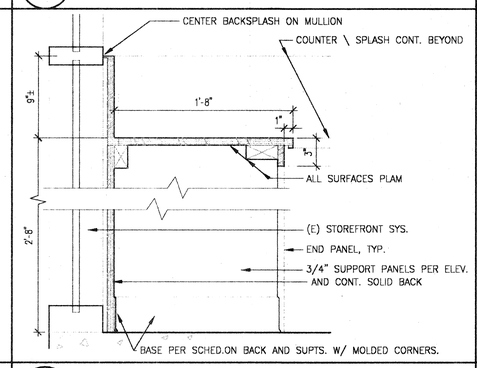
REFLECTED CEILING PLAN

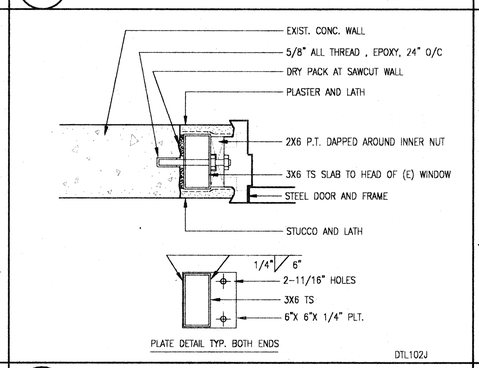
DATE	5-22-98
SCALE	AS NOTED
DRAWN	EK, JB
JOB	–
SHEET	A6-1
OF	19 SHEETS



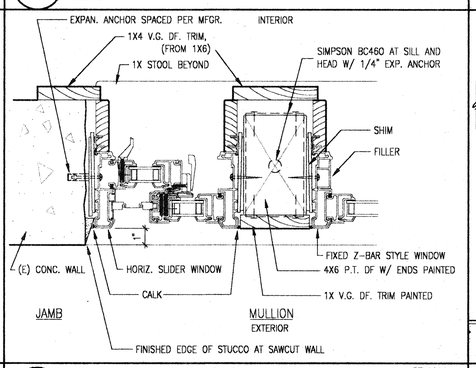
18 COUNTER @ RESTROOM — DTL017
- — 1 1/2" = 1'-0"



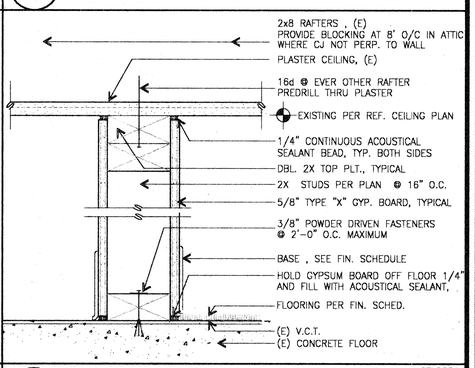
14 COUNTER AT DINING RM.
06400 — 1 1/2"=1'-0"



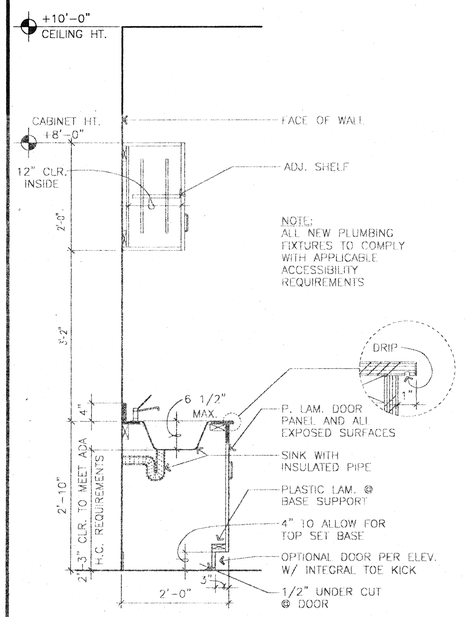
10 DOOR JAMB AT (N) CONC. WALL OPEN'G — DTL102J
1 1/2"=1'-0"



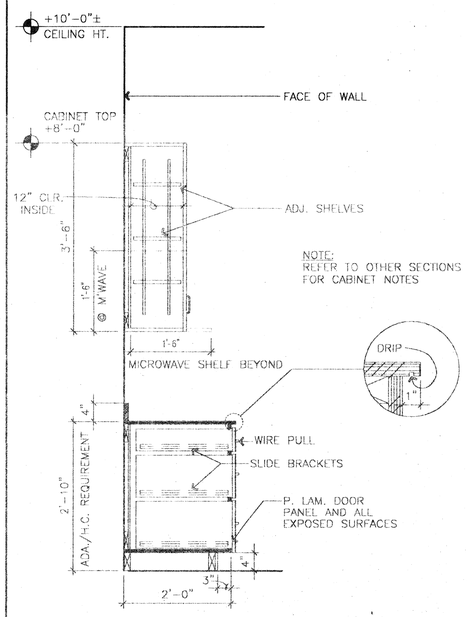
6 WINDOW, HORIZONTAL SECTION — DTL111J
08610 — 3"=1'-0"



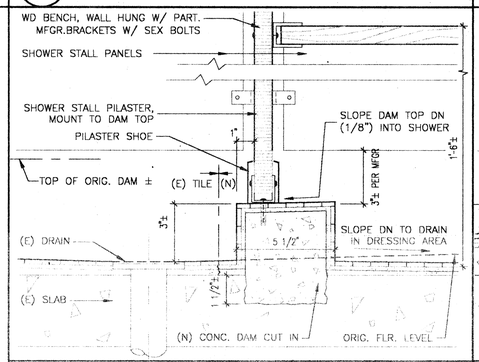
2 NEW 1 HOUR PARTITION — DTL005J
06112 — 3"=1'-0"



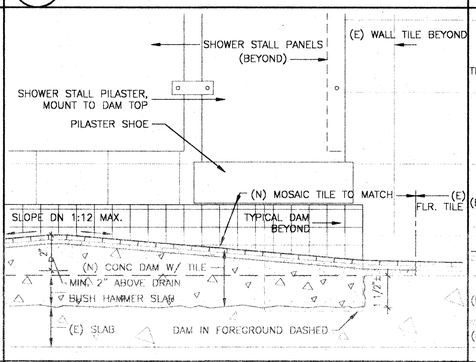
20 KITCHEN CABS. AT SINK
06400 — 3/4"=1'-0"



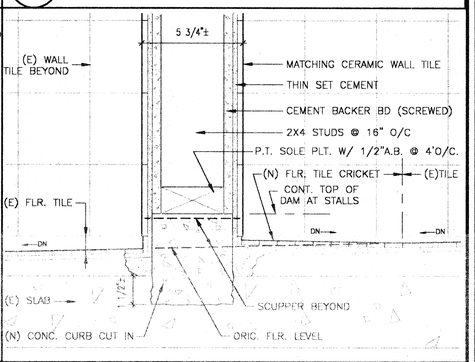
16 SECTION AT CABS., TYPICAL
06400 — 3/4"=1'-0"



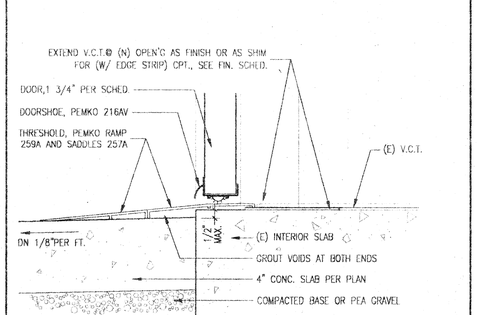
11 SHOWER DAM, TYP. — DTL106J
09300 — 3"=1'-0"



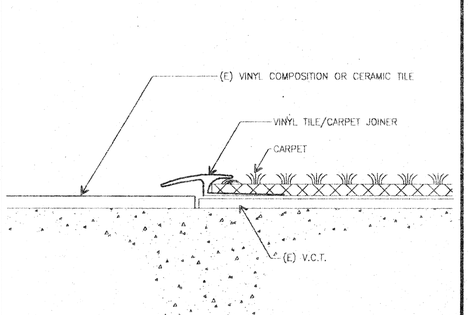
7 SHOWER RAMP DAM & PARTITION
09300, 10160 — 3"=1'-0"



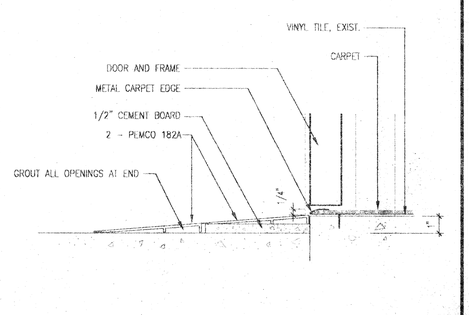
3 SHOWER WALL — DTL109J
06112, 09300 — 3"=1'-0"



12 THRESHOLD AT EXT. DOOR — DTL1005J
3"=1'-0"



8 CARPET / TILE TRANSITION — DTL011J
09660 — FULL SCALE



4 THRESHOLD RAMP AT DINING RM. — DTL101J
3"=1'-0"

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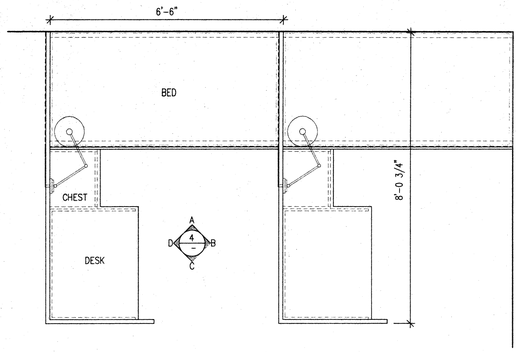
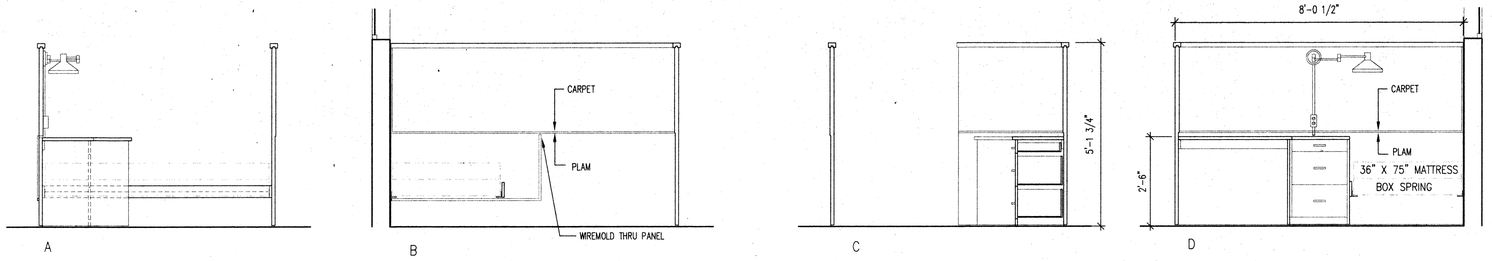
ARCHITECTURAL DETAILS

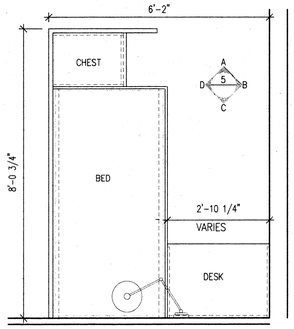
DATE 5-22-98
SCALE AS NOTED
DRAWN EK, JB
JOB —
SHEET A8-1
OF 19 SHEETS



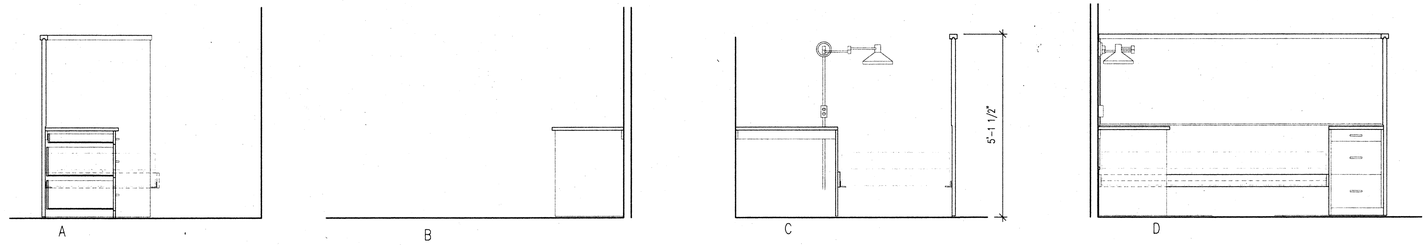
1 PLAN – TYPICAL SPACE
1/2" = 1'-0"



4 ELEV. – TYPICAL SPACE
1/2" = 1'-0"



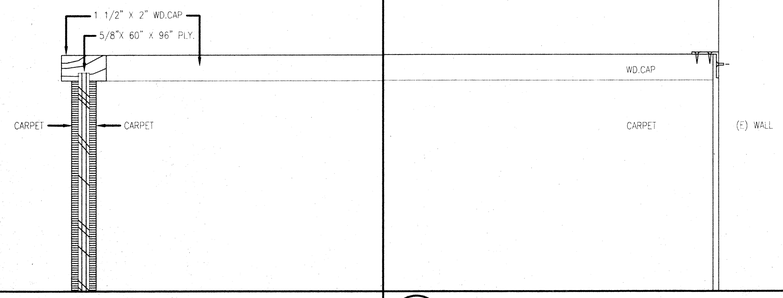
2 PLAN – COMPACT SPACE
1/2" = 1'-0"



5 ELEV. – COMPACT SPACE
1/2" = 1'-0"

3 PLAN – WHEELCHAIR ACCESSIBLE SPACE
1/2" = 1'-0"

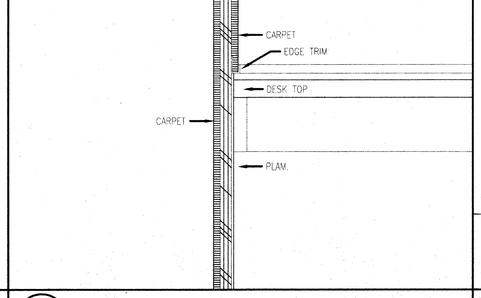
6 ELEVATIONS – WHEELCHAIR ACCESSIBLE SPACE
1/2" = 1'-0"



X DETAIL PANEL – TOP EDGE
00000 N.T.S.

X DETAIL PANEL – WALL ATTACHMENT
00000 N.T.S.

X DETAIL
00000 N.T.S.



X DETAIL PANEL – MTL. TRANSITION
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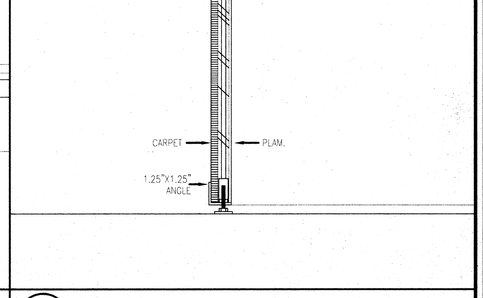

X DETAIL PANEL – BOTTOM EDGE
00000 N.T.S.

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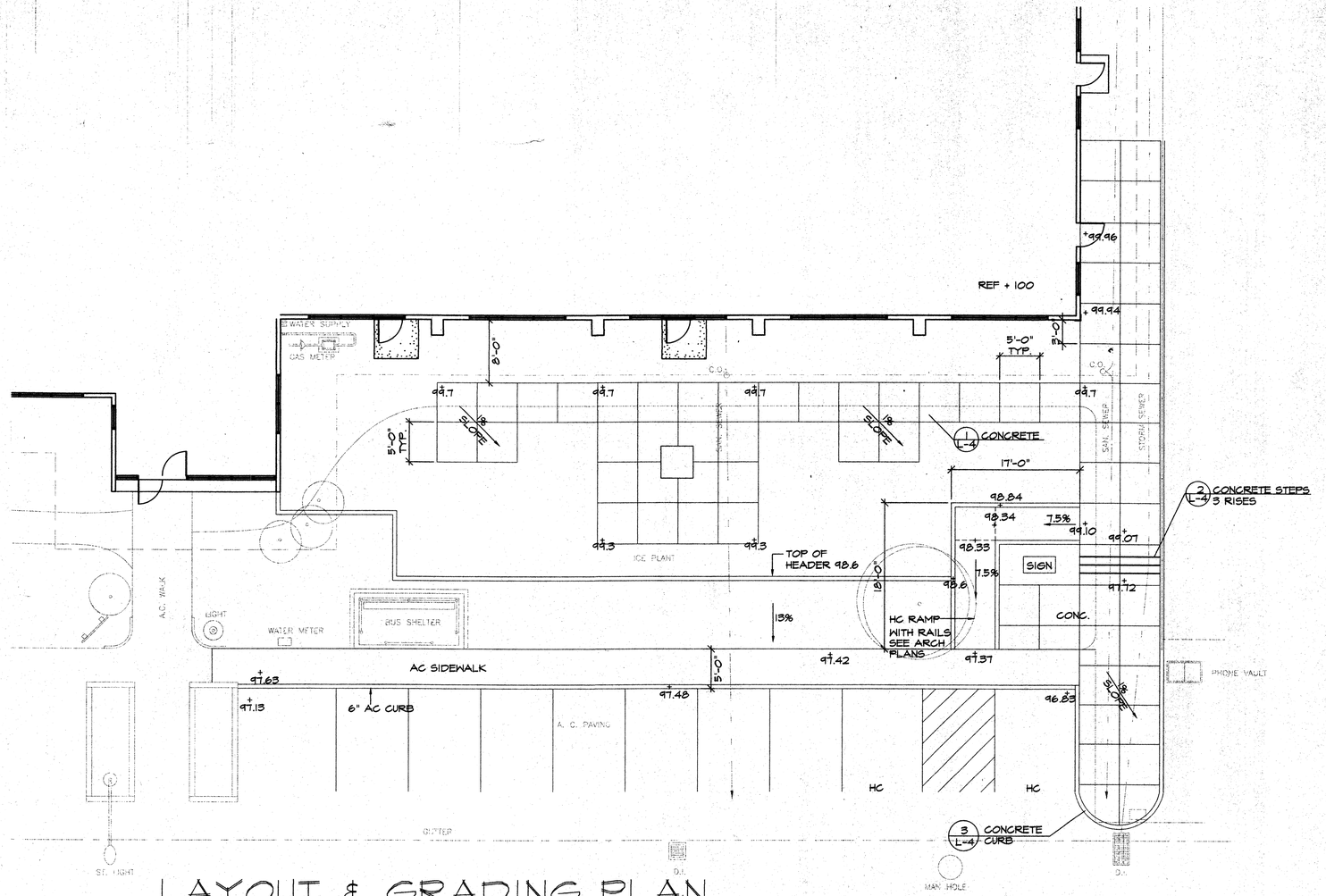
DRAWN	EK, JB
JOB	–
SHEET	A8-2
OF	19 SHEETS



LAYOUT & GRADING PLAN

GENERAL NOTES

1. **DESIGN INTENT** : These drawings represent the general design intent to be implemented on the site. Contractor shall be responsible for contacting Landscape Architect for any additional clarification or details necessary to accommodate site conditions or architectural details.

2. **CONTRACTOR COORDINATION**:Each contractor shall coordinate and otherwise integrate work with that of others in an efficient and timely manner so as to provide the Owner with a well-constructed, easily maintainable project. Each contractor shall notify others at least two working days in advance of covering, completing, or exposing work to be installed by others.

3. **CONTRACTORS' JOB SITE CONDITIONS**:Contractor agrees TO assume sole and complete responsibility for site conditions during construction, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify, and hold the owner and the Landscape Architect harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the Owner or the Landscape Architect.

4. **COMPOSITE BASE SHEET**:The proposed improvements shown on these drawings are superimposed on a base sheet. This base sheet is compiled from the topographic survey, other architectural and/or engineering documents, and other data as made available to the Landscape Architect, who shall not be held liable for changes, inaccuracies, omissions, or other errors on these documents. The composite base sheet is provided as an aid only and the Contractor shall be responsible for reviewing these documents and incorporating/integrating all construction as required to accommodate same.

The base sheet source for these drawings is:

5. **UTILITIES**: PRIOR TO CONSTRUCTION, The Contractor is responsible for contacting the utility companies involved and requesting a visual verification of the locations of their underground facilities. The utility companies are members of the Underground Service Alert (U.S.A.) on-call program. The Contractor or any subcontractor for this contract shall notify members of the U.S.A. 48 hours in advance of performing excavation work by calling the toll-free number (800) 642-2444. Excavation is defined as being 18 or more inches in depth below the existing surface.

A reasonable effort has been made to locate and delineate all known underground utilities. The Contractor is cautioned that only excavation will reveal the types, extent, sizes, location, and depths of such underground utilities. However, the consultant can assume no responsibility for the completeness or accuracy of its delineation of such underground utilities, nor for the existence of other buried objects or utilities which are not shown on these drawings. : All trenching within

6. **TREE PROTECTION AND MAINTENANCE REQUIREMENTS**
the dripline of existing trees to remain shall be by hand, with care taken not to cut or damage roots over 1-INCH diameter. Trees to remain shall be fenced with temporary fencing, such as steel stakes (max.75 FEET?o.c.) with wire mesh fabric (6x6 open), chainlink, or similar, Height to be 5 FEET minimum.

SITE CONSTRUCTION NOTES

1. **DIMENSIONS**: ALL WRITTEN DIMENSIONS SUPERSEDE SCALED DIMENSIONS.
2. **DEMOLITION**: REMOVE CURB AS SHOWN ON THE PLAN AND DISPOSE OFF-SITE. SAWCUTS SHALL BE NEAT AND CLEAN AND SHALL PROVIDE A SMOOTH TRANSITION BETWEEN NEW AND EXISTING FEATURES.
3. **SITE FURNISHINGS**: INSTALL PER MANUFACTURER SPECIFICATIONS UNLESS OTHERWISE INDICATED. FOOTING DEPTHS SHALL CONFORM TO MANUFACTURER SPECIFICATIONS.
4. **DRAINAGE**: PROVIDE POSITIVE DRAINAGE THROUGHOUT ALL PAVING AND PLANTING AREAS. CONTRACTOR SHALL FLOOD PAVED AREAS UPON COMPLETION AND RECONSTRUCT ANY LOW SPOTS AS DIRECTED BY LANDSCAPE ARCHITECT.
5. **TOPSOIL**: REFER TO SPECIFICATIONS.
6. **TOPSOIL PLACEMENT**: CROSS-RIP ALL ROUGH-GRADED PLANTING AREAS TO A DEPTH OF 8 INCHES PRIOR TO TOPSOIL PLACEMENT. SEE SOIL PREPARATION SPECIFICATION.
7. **GRADING AND DRAINAGE**: ALL PROPOSED CONSTRUCTION SHALL SMOOTHLY CONFORM TO EXISTING ADJACENT FEATURES. PROVIDE FOR POSITIVE DRAINAGE THROUGHOUT PROJECT.
8. **EXPANSION JOINTS**: CONTRACTOR SHALL INSTALL EXPANSION JOINTS AS SHOWN ON DRAWINGS, AS WELL AS BETWEEN CONCRETE PAVING AND WALLS, CURBS, AND EXISTING PAVING OR STRUCTURES.
9. **SLEEVING**: REFER TO IRRIGATION PLAN FOR REQUIREMENTS OF SLEEVING UNDER PAVING.
10. **CLEARING AND GRUBBING**: CONTRACTOR SHALL CLEAR AND GRUB ALL EXISTING VEGETATION, UNLESS OTHERWISE INDICATED, AS REQUIRED FOR SITE CONSTRUCTION, IRRIGATION, AND PLANTING OPERATIONS. LIMITS OF CLEARING SHALL BE REVIEWED WITH OWNER PRIOR TO COMMENCEMENT OF WORK. STRIP ALL ORGANIC MATTER TO A SUFFICIENT DEPTH TO COMPLETELY REMOVE SUCH MATERIAL.
CONTRACTOR SHALL REVIEW DEMOLITION, AND CLEARING AND GRUBBING REQUIREMENTS ON SITE WITH LANDSCAPE ARCHITECT) PRIOR TO COMMENCING DEMOLITION OPERATIONS. ALL DEMOLITION OPERATIONS WITHIN THE DRIP LINE OF TREES SHALL BE ACCOMPLISHED BY HAND METHODS. NO ROOTS GREATER THAN 2 INCHES SHALL BE CUT WITHOUT REVIEW BY LANDSCAPE ARCHITECT.
EXISTING SITE FURNISHINGS AND IRRIGATION EQUIPMENT TO BE REMOVED SHALL BE GIVEN TO THE OWNER.
11. **SOIL COMPACTION**: COMPACT ALL FILL AREAS 90% IN LIFTS OF 12 INCH MAXIMUM, EXCEPT UPPER 12 INCHES OF ALL PLANTING AREAS. SEE SPECIFICATIONS.
12. **EXISTING FILL AREA**: REMOVE ALL EXISTING FILL MATERIAL AND COMPACT PER SPECIFICATIONS.. NO TOPSOIL SHALL BE STOCKPILED FROM THIS AREA.
13. **TRENCH BACKFILL**: SEE SPECIFICATIONS.
14. **EXISTING CUT SLOPE**: FLATTEN THE EXISTING CUT SLOPE TO A 1:2 SLOPE PER PLAN, WITH THE UPPER 6 FEET ROUNDED TO CONFORM TO THE NATURAL SLOPE. LOCATE THE TOE OF SLOPE SO THAT ALL GULLY RIDGES WILL BE REMOVED BY EXCAVATION.
15. **SLOPES**: PROVIDE POSITIVE DRAINAGE THROUGHOUT ALL PAVING AND PLANTING AREAS. CONTRACTOR SHALL FLOOD PAVED AREAS UPON COMPLETION AND RECONSTRUCT ANY LOW SPOTS AS DIRECTED BY LANDSCAPE ARCHITECT. SLOPE PAVING 4.9
SLOPE OF MINIMUM TO 2.5% MAXIMUM.
PAVING AT ENTRANCE FROM PARKING SHALL NOT EXCEED 30 INCHES OF RISE IN ELEVATION AND A 1:15 SLOPE BETWEEN LEVEL LANDINGS OF 6 FEET LENGTH. PAVING SLOPE IN THE HANDICAP PARKING STALL SHALL NOT EXCEED 2.08 %.
16. **EXISTING CONDITIONS**: ALL PROPOSED PAVING, CURBS, AND GRADING IN PLANTING AREAS SHALL CONFORM SMOOTHLY TO ADJACENT EXISTING FEATURES TO REMAIN. 8 MAXIMUM WITH A CROSS
ALL EXISTING CONDITIONS SUCH AS CONTOURS, SITE FEATURES, AND VEGETATION ARE SHOWN SCREENED ON PLAN.
SEE ALSO CIVIL, ELECTRICAL, MECHANICAL/PLUMBING AND STRUCTURAL DRAWINGS.
17. **LAYOUT**: EXISTING SURVEY COORDINATES (PER CITY OF NOVATO DATUM) ARE GIVEN AT SELECTED EXISTING FEATURES FOR REFERENCE AND CHECK POINTS. STRATEGIC POINTS AT PROPOSED CONSTRUCTION ARE LOCATED BY THE SAME COORDINATES SYSTEM.
18. **PROJECT STAKING**: ALL PROPOSED SITE FEATURES SHALL BE STAKED IN FIELD FOR REVIEW BY THE CITY INSPECTOR PRIOR TO CONSTRUCTION. ALL CURVES SHALL BE SMOOTH AND CONTINUOUS WITH CAREFULLY MATCHED TANGENTS.
19. **STAKING OF PLAYFIELDS**: SOCCER FIELDS SHALL BE STAKED AT ALL CORNERS AND SOFTBALL FIELDS AT RIGHT, LEFT, AND CENTER FIELDS, WITH 1/2 INCH DIAMETER X 2'-0" STEEL RODS DRIVEN FLUSH WITH FINISH GRADE.

0 4 8 16 Feet NORTH

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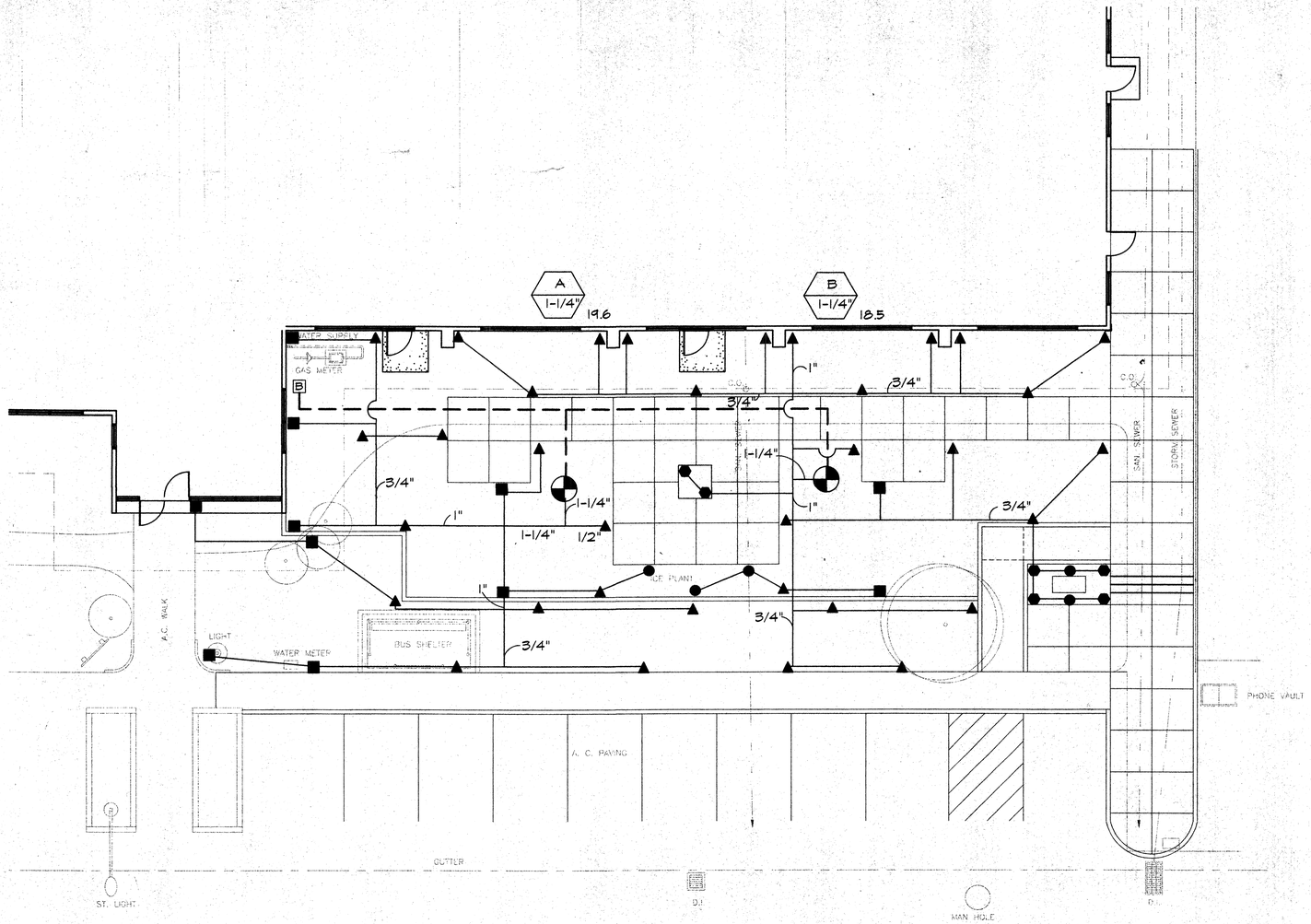
Revisions

BID	10-3-98

LICENSED LANDSCAPE ARCHITECT
JOSEPH P. CALLANDER
Signature
Dec. 31, 1999
Renewal Date
Date
STATE OF CALIFORNIA

OUT & GRADING PLAN
'LF-SUFFICIENCY SHELTER
od City, California



IRRIGATION PLAN

IRRIGATION LEGEND

- ■ SHRUB SPRAY, TORO 570-12'-PC, 6" POP-UP, ARC AS REQUIRED
- ● SHRUB SPRAY, TORO 570-5'-PC, 6" POP-UP, ARC AS REQUIRED
- ▲ SHRUB SPRAY, TORO 570-10'-PC, 6" POP-UP, ARC AS REQUIRED
- ● SHRUB SPRAY, TORO 4-SST, 6" POP-UP
- REMOTE CONTROL VALVE, HARDIE CENTURY SERIES (SIZE PER PLAN)
- B BACKFLOW, 1"
- P.O.C. POINT OF CONNECTION, 1"
- ——— LATERAL LINE, CLASS 200 PVC, SIZE PER PLAN 12" MIN. BURIAL
- — — MAINLINE, CLASS 315 PVC, 2", 18" MIN. BURIAL
- = = = SLEEVE, SCH 40 PVC, SIZE AS REQUIRED, SEE NOTE
- 1 / 1" / 20 — VALVE #, APPROXIMATE GPM THROUGH VALVE, VALVE SIZE

IRRIGATION NOTES

1. SPECIFICATIONS: SEE IRRIGATION SPECIFICATIONS FOR ADDITIONAL INFORMATION.

2. VERIFICATION: SYSTEM DESIGN IS BASED ON XX P.S.I. AND 50 G.P.M. AVAILABLE AT DISCHARGE OUTLET OF METER OR OTHER POINT OF CONNECTION. CONTRACTOR SHALL VERIFY SAME AND NOTIFY LANDSCAPE ARCHITECT IF SUCH DATA ADVERSELY AFFECTS THE OPERATION OF THE SYSTEM. SUCH NOTICE SHALL BE MADE IN WRITING AND PRIOR TO COMMENCING ANY IRRIGATION WORK.

3. UTILITIES: CONTRACTOR SHALL VERIFY LOCATION OF ALL ON-SITE UTILITIES. RESTORATION OF DAMAGED UTILITIES SHALL BE MADE AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.

4. SCHEMATIC: SYSTEM FEATURES ARE SHOWN SCHEMATICALLY FOR GRAPHIC CLARITY. INSTALL ALL PIPING AND VALVES IN COMMON TRENCHES WHERE FEASIBLE AND INSIDE PLANTING AREAS WHENEVER POSSIBLE. ALL VALVES SHALL BE LOCATED IN GROUNDCOVER OR SHRUB AREAS WHENEVER POSSIBLE.

5. CODES: IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODES AND MANUFACTURER'S SPECIFICATIONS. NOTIFY LANDSCAPE ARCHITECT BY TELEPHONE AND IN WRITING OF ANY CONFLICTS PRIOR TO INSTALLATION.

6. SLEEVING: CONTRACTOR SHALL ADEQUATELY SIZE ALL SLEEVES SHOWN ON PLAN. SLEEVES SHALL BE INSTALLED AT THE NECESSARY DEPTHS PRIOR TO PAVEMENT CONSTRUCTION. SLEEVING SHALL EXTEND 1'-0" FROM EDGE OF PAVING INTO LAWN OR PLANTING AREA, AND SHALL HAVE ENDS CLEARLY MARKED ABOVE GRADE.

7. QUICK COUPLING VALVES: INSTALL ON TRIPLE SWING JOINT. LOCATE 12" AWAY FROM EDGE OF WALKS, WALLS, CURBS, AND HEADERBOARDS WITHIN PLANTING AREAS. PROVIDE OWNER WITH ONE OPERATING KEY, TWO SETS OF LOCKING COVER KEYS, AND ONE SWIVEL HOSE ELL.

8. HEAD ALLOWANCE: CONTRACTOR SHALL ALLOW IN BID PRICE AN AMOUNT SUFFICIENT TO PROVIDE AND INSTALL AN ADDITIONAL FOUR SPRINKLER HEADS OF EACH TYPE SPECIFIED ON PLAN TO ACCOMMODATE FIELD CHANGES. THESE HEADS SHALL BE LOCATED AS DIRECTED BY THE LANDSCAPE ARCHITECT. CONTRACTOR SHALL DELIVER TO THE OWNER ANY UN-USED ADDITIONAL HEADS AT THE END OF THE MAINTENANCE PERIOD.

9. CONTROLLER: ALL ABOVE-GRADE CONDUIT EITHER 24V. OR 110V. SHALL BE RIGID STEEL AND SECURELY FASTENED TO STRUCTURE AND TO CONTROLLER.

IRRIGATION SYSTEM MAINTENANCE REQUIREMENTS (LONG TERM)

1. REVIEW FUNCTIONING OF IRRIGATION SYSTEM ON A REGULAR BASIS TO VERIFY COVERAGE TO ALL PLANTED AREAS AND TO MONITOR BREAKAGE AND LEAKAGE.

2. REPAIR OR REPLACE ANY BROKEN COMPONENTS AS SOON AS DISCOVERED.

3. REVIEW CONTROLLER PROGRAMMING ON A REGULAR BASIS TO ACHIEVE PLANT GROWTH WITHOUT OVERWATERING AND TO ADJUST FOR SEASONAL VARIATION. SEE WATER CONSERVATION CONCEPT STATEMENT FOR SUGGESTED PROGRAMMING AND MAINTENANCE SCHEDULE.

4. ADJUST RADIUS AND POSITIONING OF SPRINKLER HEADS AS NEEDED TO AVOID OVERSPRAY ONTO BUILDINGS AND PAVEMENTS.

5. ANY REPLACEMENT HEADS SHALL BE POP-UP TYPE COMPATIBLE IN RADIUS AND PRECIPITATION RATE TO THOSE ORIGINALLY SPECIFIED. FIXED RISERS SHALL NOT BE INSTALLED.

0 4 8 16 Feet NORTH

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Revisions

BID	10-8-98

LICENSED LANDSCAPE ARCHITECT — STATE OF CALIFORNIA
Signature
Dec. 31, 1999
Renewal Date
Date

IRRIGATION PLAN
SELF-SUFFICIENCY SHELTER
Redwood City, California

Date	5/22/98
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Checked	RC
Project No.	98.004

Sheet No. L-2 of 5

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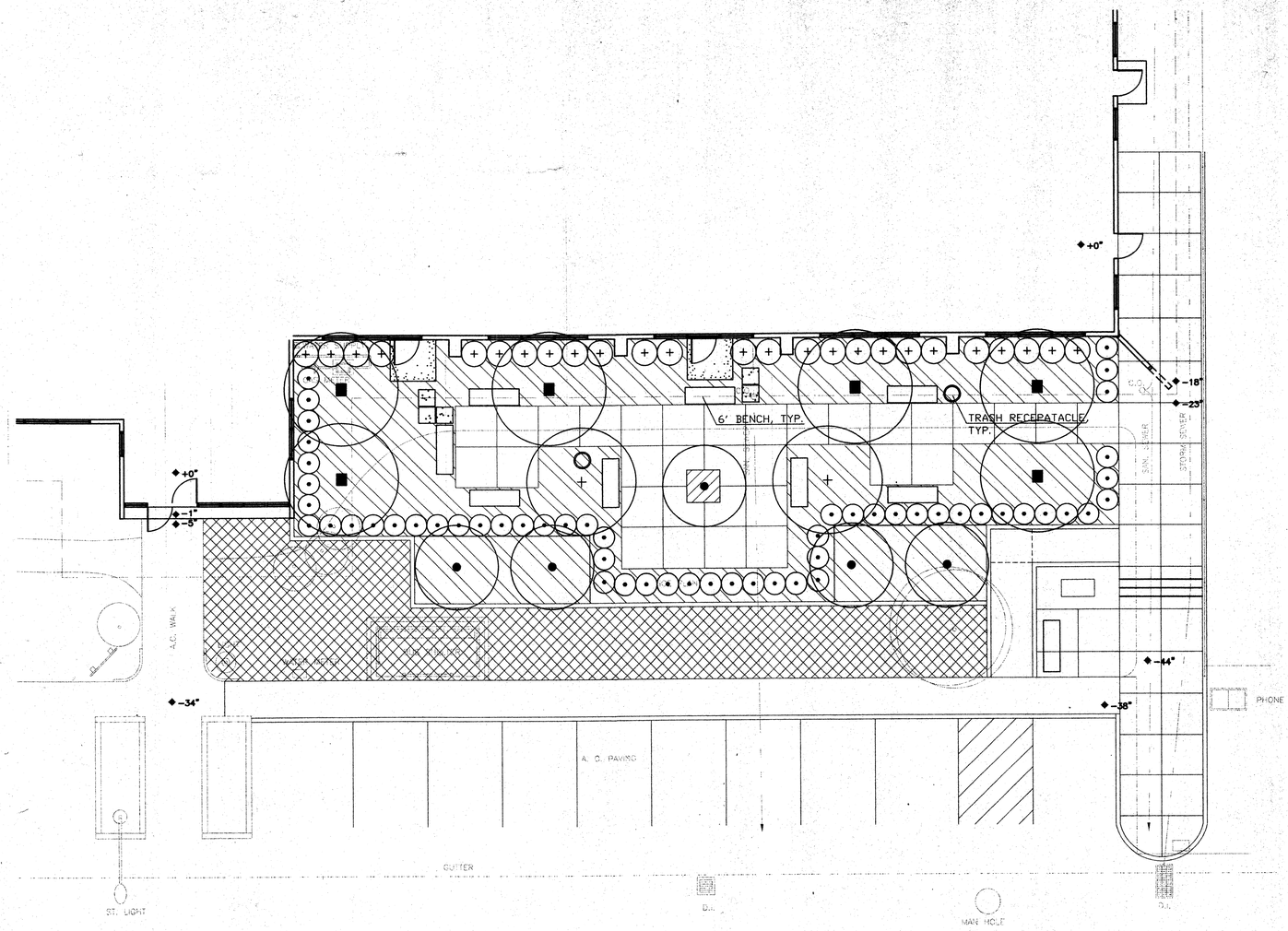

PLANTING PLAN

PLANTING NOTES

1. QUALITY: MINIMUM QUALITY OF ALL PLANT MATERIAL SHALL CONFORM TO PREVAILING PUBLISHED SPECIFICATIONS OF THE CALIFORNIA ASSOCIATION OF NURSERYMEN AND THE AMERICAN ASSOCIATION OF NURSERYMEN UNLESS OTHERWISE INDICATED. ADDITIONAL SPECIFICATIONS SHALL BE AS INDICATED ON THE DRAWINGS. ALL CONTAINER-GROWN STOCK SHALL BE GROWN IN ITS CONTAINER FOR AT LEAST SIX MONTHS PRIOR TO ITS PLANTING. CONTRACTOR SHALL ALLOW 1% OF THE QUANTITY OF PLANTS FOR REMOVAL AND INSPECTION. FOLIAGE, ROOTS, AND STEMS OF ALL PLANTS SHALL BE OF VIGOROUS HEALTH AND NORMAL HABIT OF GROWTH FOR ITS SPECIES. ALL PLANTS SHALL BE FREE OF DISEASES, INSECT STAGES, BURNS OR DISFIGURING CHARACTERISTICS.

2. TREES: ALL TREES SHALL HAVE STRAIGHT TRUNKS OF UNIFORM TAPER, LARGER AT THE BOTTOM. TRUNKS SHALL BE FREE OF DAMAGED BARK, WITH ALL MINOR ABRASIONS AND CUTS SHOWING HEALING TISSUE. SUCKER BASAL GROWTH AND SUCKER LATERAL GROWTH SHALL BE REMOVED AND TREATED TO ELIMINATE RESPROUTING. NORMAL LOWER SIDE BRANCHING SHALL REMAIN. TREES UNABLE TO SUPPORT THEMSELVES WITHOUT STAKING SHALL BE REJECTED.

3. PROTECTION OF PLANTS: CONTRACTOR SHALL MAINTAIN ALL PLANT MATERIAL IN A HEALTHY GROWING CONDITION PRIOR TO AND DURING PLANTING OPERATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR VANDALISM, THEFT, AND DAMAGE TO PLANT MATERIAL UNTIL COMMENCEMENT OF THE MAINTENANCE PERIOD.

4. BASINS: CONSTRUCT BASINS AS NECESSARY TO WATER PLANTS. REMOVE BASINS FROM ALL PLANTS UNDER A SPRAY IRRIGATION SYSTEM PRIOR TO FINAL INSPECTION AND FINISH GRADE THE PLANTING AREA. BASINS FOR PLANTS TO BE HAND WATERED OR BUBBLER IRRIGATED SHALL REMAIN IN PLACE. BASIN BOTTOMS SHALL DRAIN TO BERM AWAY FROM PLANT STEM.

5. CLEAN-UP: AFTER COMPLETION OF ALL OPERATIONS, CONTRACTOR SHALL REMOVE ALL TRASH, EXCESS SOIL, AND OTHER DEBRIS. ALL WALKS, WALLS, AND PAVEMENT SHALL BE SWEPT AND WASHED CLEAN, LEAVING THE ENTIRE AREA IN A NEAT, ORDERLY CONDITION.

6. HERBICIDE: CONTRACTOR SHALL APPLY A PRE-EMERGENT HERBICIDE SUCH AS "TREFLAN" OR "DYMID" TO ALL NON-SEEDED PLANTED AREAS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

7. QUANTITIES: THE QUANTITIES SHOWN ON THE PLANT LIST AND IN LABELS ARE FOR THE LANDSCAPE ARCHITECT'S USE AND ARE NOT TO BE CONSTRUED AS THE COMPLETE AND ACCURATE LIMITS OF THE CONTRACT. CONTRACTOR SHALL FURNISH AND INSTALL ALL PLANTS SHOWN SCHEMATICALLY ON THE DRAWINGS.

8. TOPSOIL: ALL PLANTING AREAS TO RECEIVE A SIX INCH LAYER OF NATIVE TOPSOIL PER SPECIFICATIONS.

9. MULCH: INSTALL A UNIFORM TWO INCH COVERING, OF SMALL DECORATIVE BARK, 3/4 INCH TO 1/8 INCH PARTICLE SIZE, IN ALL PLANTING AREAS. MATERIAL AVAILABLE FROM HYPONEX CORPORATION, (800) 821-8557.

10. SOILS TESTING: SEE SPECIFICATIONS FOR TESTING OF TOPSOIL AND AMENDMENTS. IN ADDITION, CONTRACTOR SHALL SUBMIT A FIVE GALLON SAMPLE OF NATIVE TOPSOIL FROM ANY AREAS PREVIOUSLY COVERED BY PAVING, TO SOIL AND PLANT LABORATORY, INC. OF SANTA CLARA, (408) 727-0330, FOR CONTAMINATION TESTING. TESTING REQUIRES FOUR TO FIVE WEEKS. CONTRACTOR TO ALLOW SUFFICIENT TIME FOR TESTING PRIOR TO CONSTRUCTION.

11. EXISTING PLANT MATERIAL: PROTECT ALL EXISTING PLANT MATERIAL TO REMAIN. CONTRACTOR TO REPAIR ANY DAMAGES INCURRED AS A DIRECT RESULT OF THIS CONTRACT TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST.

12. GROUNDCOVER: PROVIDE GROUNDCOVER AT INDICATED ON CENTER SPACING THROUGHOUT ALL PLANTING AREAS. GROUNDCOVER SHALL BE PROVIDED UP TO THE WATERING BASIN OF ALL TREES AND SHRUBS.

PLANT LIST

SYMBOL	BOTANICAL NAME	COMMON NAME	NOTES
● MAL FLO	Malus floribunda	Japanese Flowering Crab Apple	15 gal
■ PRU CER	Prunus cer. "Thon"cloud"	Flowering Plum	15 gal
+ PYR CAL	Pyrus calleryana "Aristo.	Aristocrat Pear	15 gal
⊙ ESC COM	Escalonia compacta	Compact Escalonia	5 gal
⊕ RHA IND	Rhaphiolepis indl. "Sp. Rapture"	Spring Rapture	5 gal

Mulch
1. Pine or Fir bark, shredded, free of sticks, dust, and debris.
2. In Ground Cover and Shrub areas install 2" depth of mulch.

Ground Cover

Vincia minor	Dwarf Periwinkle	Flats 12" oc
Iberis sempervirens 'Snowflake'	Snowflake Candytuft	1 gal @ 18" o. c.
Trachelospermum asiaticum	Asian Star Jasmine	1 gal @ 36" o. c.

Bench

Trash Receptacle

PLANT MAINTENANCE REQUIREMENTS (LONG TERM)

THE FOLLOWING LIST OF TASKS ARE PART BUT NOT ALL INCLUSIVE OF THE MINIMAL LEVEL OF MAINTENANCE REQUIRED FOR THE PLANTING AND SOIL SYSTEM IRRIGATION SYSTEM. THE OWNER(S) SHALL BE RESPONSIBLE FOR OBTAINING A PROFESSIONAL LANDSCAPE MANAGER AND A LICENSED AND CERTIFIED LANDSCAPE MAINTENANCE CONTRACTOR TO PROPERLY MAINTAIN THIS FACILITY.

1. REPLACE DEAD OR DYING GROUND COVER, SHRUBS AND TREES AS NECESSARY WITH SAME SPECIES AS ORIGINALLY SPECIFIED.

2. REPLACE OR RE-SET TREE STAKES AND TIES AS NECESSARY.

3. TREE PRUNING SHALL ALLOW THE NATURAL BRANCHING STRUCTURE TO DEVELOP.

4. TREES ADJACENT TO BUILDINGS SHALL BE PRUNED TO MAINTAIN A MINIMUM THREE-FOOT CLEARANCE BETWEEN BRANCHES AND STRUCTURE.

5. TREES ADJACENT TO PAVING SHALL RECEIVE YEARLY ROOT-PRUNING TO PREVENT ROOT GROWTH BENEATH PAVING.

6. A REGULAR FERTILIZATION PROGRAM SHALL BE IMPLEMENTED TO KEEP PLANTS IN OPTIMUM HEALTH. SOIL SAMPLES FROM ANY PROBLEM AREAS SHALL BE SUBMITTED TO SOIL AND PLANT LABORATORY FOR REMEDIAL RECOMMENDATIONS.

7. ANNUAL FLOWER PLANTING SHALL BE REPLACED FOUR TIMES PER YEAR.

8. MINIMUM 2% SLOPE AWAY FROM ALL BUILDINGS SHALL BE CAREFULLY MAINTAINED.

9. SWALES, GRADES AND DRAINS SHALL BE CHECKED, CLEANED AND REGRADED AS NECESSARY TO ENSURE POSITIVE DRAINAGE.

10. ANY SOIL EROSION SHALL BE REPAIRED AS SOON AS DISCOVERED.

0 4 8 16 Feet

NORTH

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Revisions	
BID	6.5.98

LICENSED LANDSCAPE ARCHITECT — Signature — Dec. 31, 1999 Renewal Date — Date — STATE OF CALIFORNIA

PLANTING PLAN

SELF-SUFFICIENCY SHELTER

Redwood City, California

Date	5/22/98
Scale	AS SHOWN
Drawn By	VR
Checked	RC
Project No.	98.004

Sheet No. L-3 of 5

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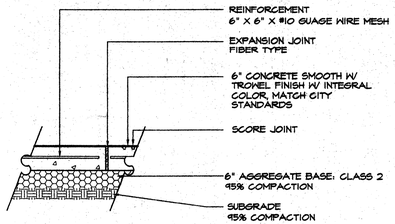
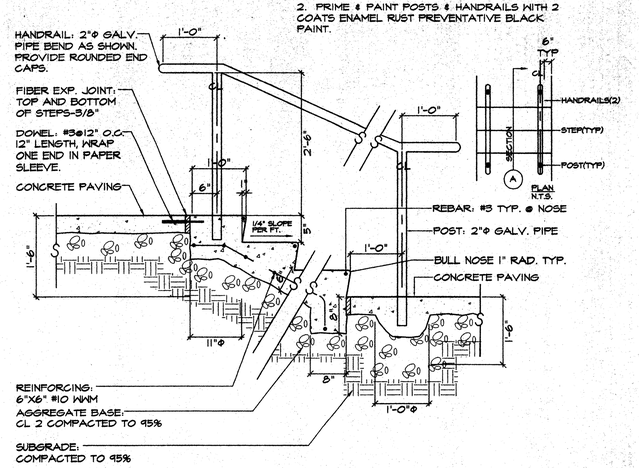
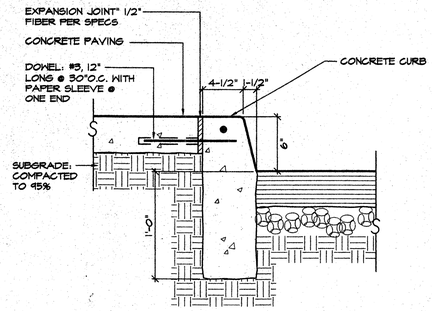


1 / L4 **CONCRETE**
SECTION - 1" = 1'-0"

NOTES:
1. WELD & GRIND SMOOTH ALL CONNECTIONS
2. PRIME & PAINT POSTS & HANDRAILS WITH 2 COATS ENAMEL RUST PREVENTATIVE BLACK PAINT.



2 / L4 **CONCRETE STEP w/ HAND RAIL**
SECTION - 3/4" = 1'-0"



3 / L4 **CONCRETE CURB AT SIDEWALK**
SECTION - NOT TO SCALE

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IRRIGATION AND PLANTING DETAILS
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Redwood City, California

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Checked	RC
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Sheet No. L-4 of 5

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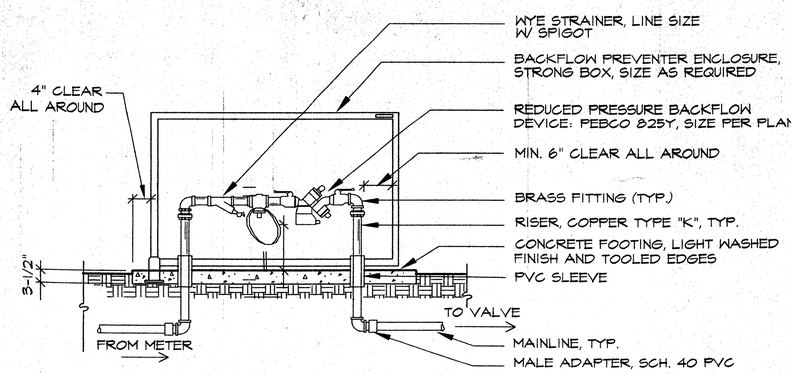
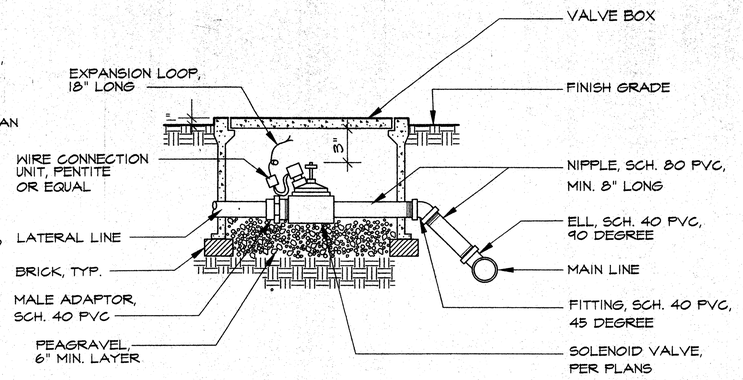
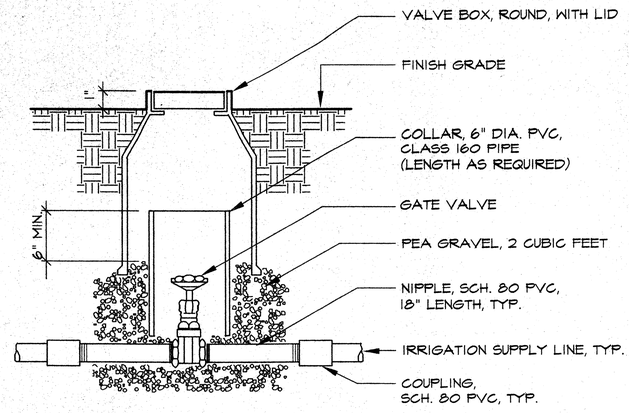
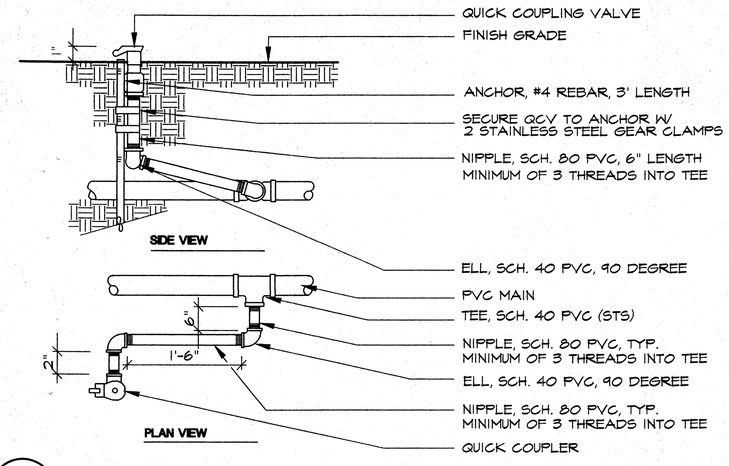




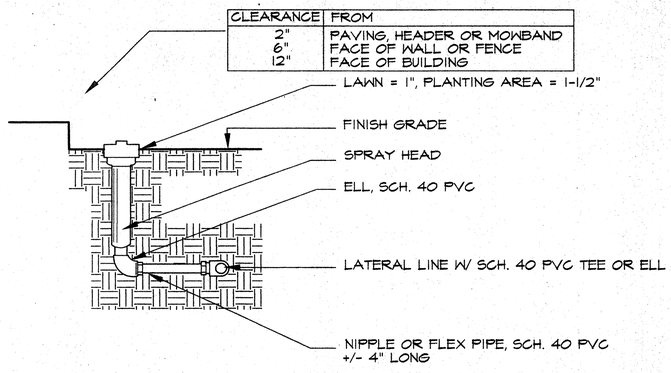


1 / L5 BACKFLOW PREVENTER
ELEVATION - NOT TO SCALE



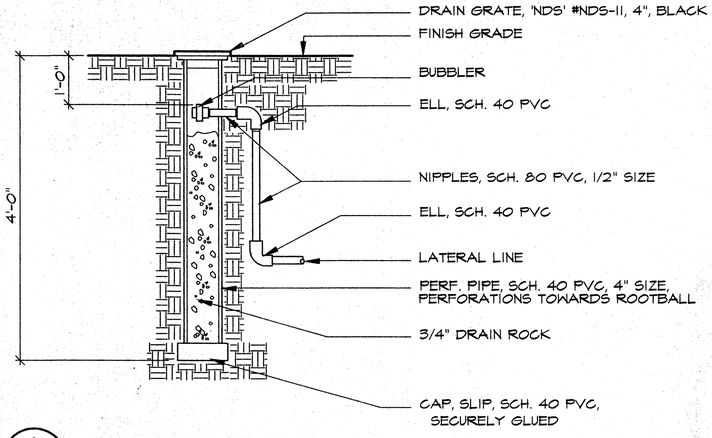
4 / L5 QUICK COUPLING VALVE
ELEVATION - NOT TO SCALE

2 / L5 REMOTE CONTROL VALVE
SECTION - NOT TO SCALE

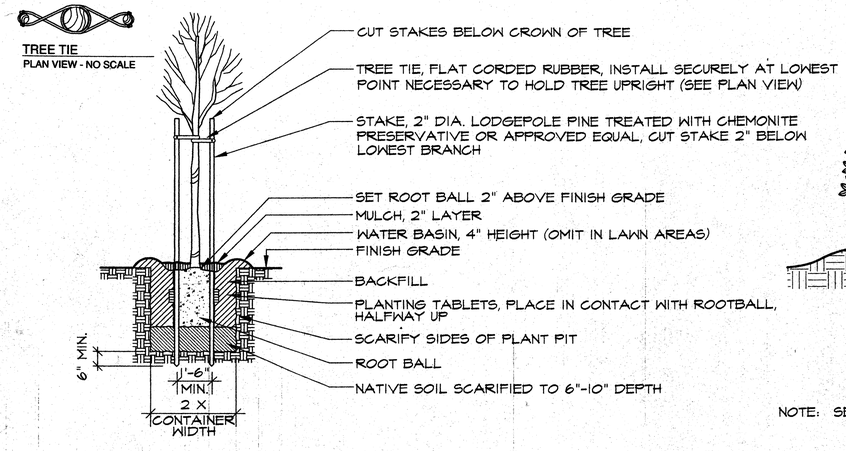


5 / L5 POP-UP SPRAY HEAD
ELEVATION - NOT TO SCALE

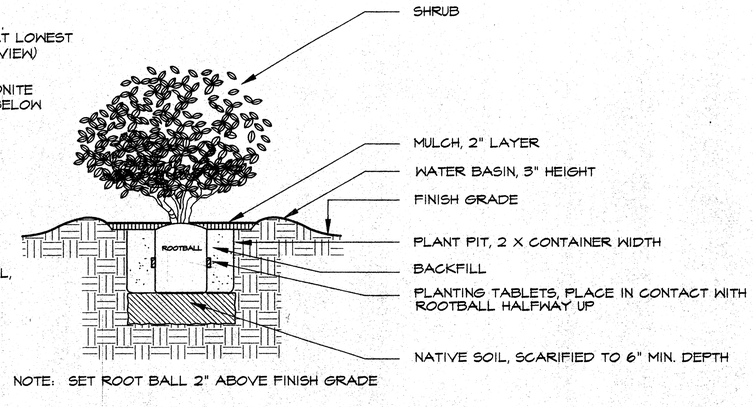
3 / L5 GATE VALVE
SECTION - NOT TO SCALE



6 / L5 TREE BUBBLER
SECTION - NOT TO SCALE



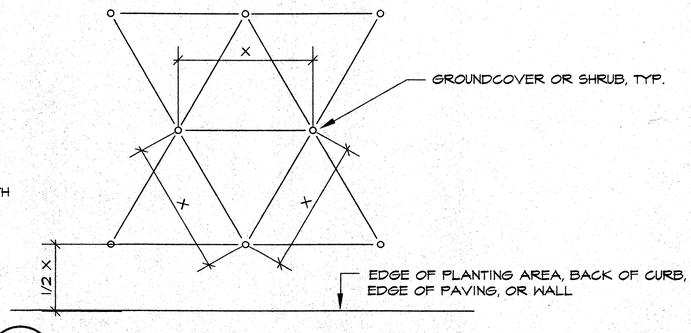
7 / L5 TREE STAKING
SECTION - NOT TO SCALE



NOTE: SET ROOT BALL 2" ABOVE FINISH GRADE

8 / L5 SHRUB PLANTING
SECTION - NOT TO SCALE

NOTE: FOR GROUNDCOVER SPACING 'X', SEE PLANTING PLAN LEGEND



9 / L5 SHRUB AND GROUNDCOVER SPACING
PLAN - NOT TO SCALE

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LICENSED LANDSCAPE ARCHITECT — ROBERT V. CALLANDER — No. 1308 — Signature — Date — STATE OF CALIFORNIA

IRRIGATION AND PLANTING DETAILS
SELF SUFFICIENCY SHELTER
Redwood City, California

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Sheet No. L-5 of 5

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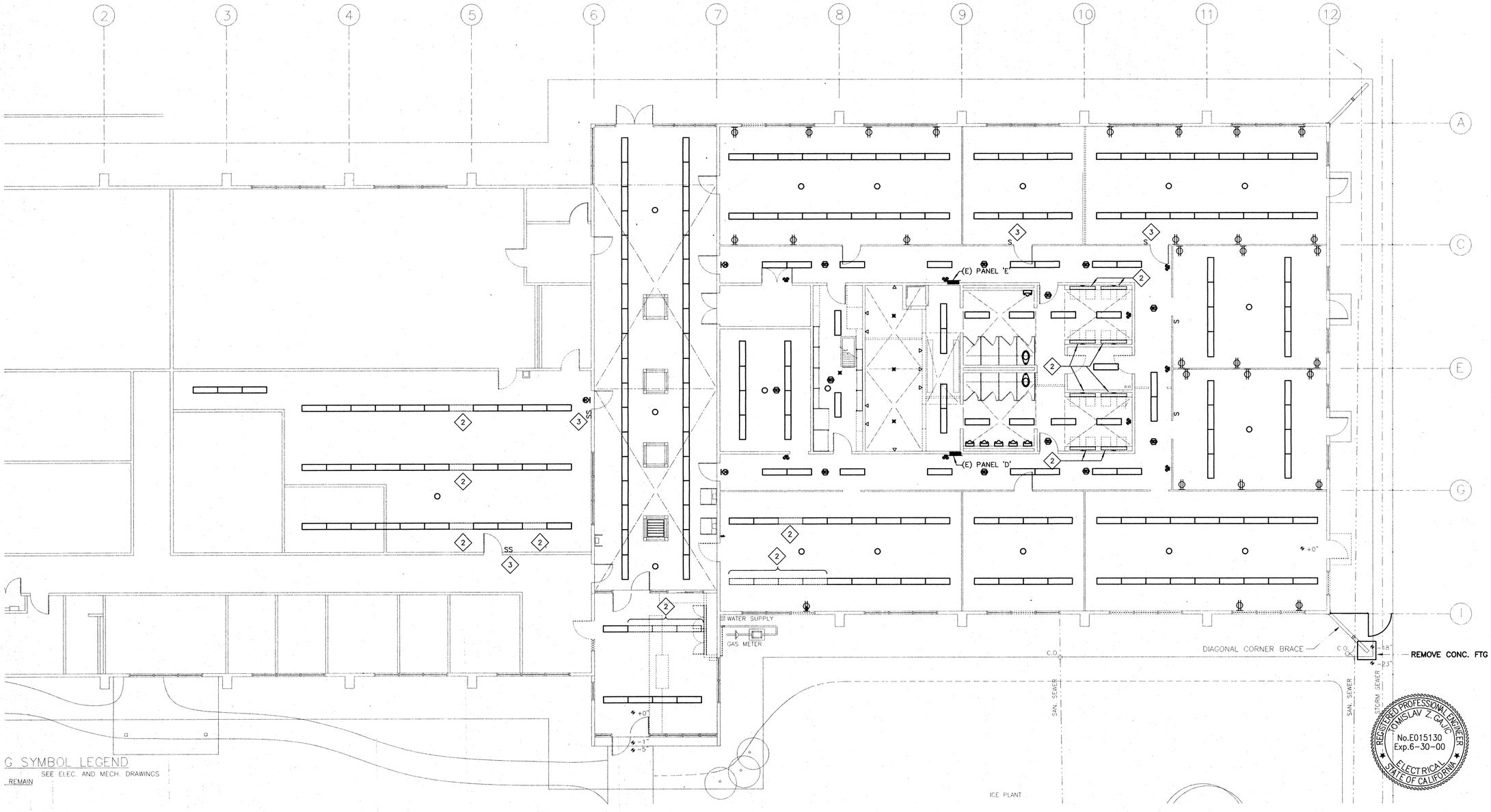
SHEET NOTES:

1. REMOVE EXISTING RECEPTACLES SHOWN AND ALL ASSOCIATED CONDUITS AND WIRES BACK TO POWER SOURCE (PANEL 'E' OR PANEL 'D'). MAINTAIN CIRCUI CONTINUITY FOR EXISTING RECEPTACLES TO REMAIN.
2. REMOVE EXISTING LIGHT FIXTURES AND ALL ASSOCIATED CONDUITS AND WIRES BACK TO NEAREST ACTIVE LIGHT FIXTURES TO REMAIN. PROVIDE END CAPS FOR LIGHT FIXTURES.
3. REMOVE EXISTING LIGHT SWITCH AND ALL ASSOCIATED CONDUITS AND WIRES BACK TO NEAREST ACTIVE LIGHT FIXTURES TO REMAIN.



REGISTERED PROFESSIONAL ENGINEER
TOMISLAV Z. GAJIC
No.E015130
Exp.6-30-00
ELECTRICAL
STATE OF CALIFORNIA

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ENCON
ENERGY ■ CONSERVATION ■ COMPANY
4940 El Camino Real, Suite 203
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fax # (650) 964-3754
Project # 982457.00

HAGMAN ASSOCIATES ARCHITECTS
2400 BROADWAY SUITE 201
REDWOOD CITY, CA.
(415) 364-5264

MAPLE STREET SELF-SUFFICIENCY SHELTER
COUNTY OF SAN MATEO
MAPLE ST.
REDWOOD CITY, CALIFFORNIA

ELECTRICAL DEMOLITION PLAN

DATE	05/04/98
SCALE	
DRAWN	
JOB	982457.00
SHEET	ED-1
OF	SHEETS

PANEL SCHEDULE

PANEL "P"

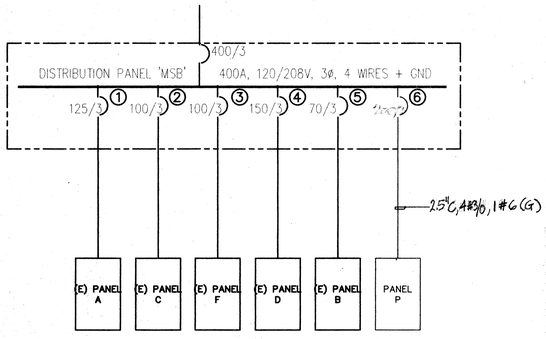
120/208 VOLTS 3 PHASE 4 WIRE
TYPE NQOD (BOLT-ON) BUS 200
MAIN ☐ LUGS ONLY ■ 200A CB
MOUNTING ■ SURFACE ☐ FLUSH

CKT. NO.	LOAD DESCRIPTION & LOCATION	WIRE	LOAD	BRKR P	BRKR T	ØA	ØB	ØC	BRKR P	BRKR T	LOAD	WIRE	LOAD DESCRIPTION & LOCATION	CKT. NO.
1	REC – PARTITION	12	R	1	20	1.20			1	20	R	12	REC – PARTITION	2
3		12	R	1	20		1.20	1.20	1	20	R	12		4
5		12	R	1	20			1.20	1.20	1	20	R	12		6
7		12	R	1	20	1.20	1.00		1	20	R	12	REC – KITCHEN	8
9		12	R	1	20		1.20	1.00	1	20	R	12	REC – KITCHEN	10
11		12	R	1	20			1.20	1.00	1	20	R	12	REC – REFRIGERATOR	12
13				1	20	–	0.40		1	20	R	12	REC – OFFICE	14
15				1	20		–	0.40	1	20	R	12		16
17				1	30			–	0.40	1	20	R	12		18
19				1	30	–	–		1	20			SPARE	20
21				1	20		–	–	1	20				22
23				1	20			–	–	1	20				24
25				1	20	–	–		1	20				26
27				1	20		–	–	1	20				28
29				1	20			–	–	1	20				30
31				3		5.76	5.76		3						32
33	CONDENSING UNIT 1						5.76	5.76					CONDENSING UNIT 2		34
35					60			5.76	5.76		60				36
37				3		5.76	5.76		3						38
39	AIR HANDLING UNIT 1						5.76	5.76					AIR HANDLING UNIT 2		40
41					60			5.76	5.76		60				42
	SUB TOTALS					28.04	28.04	28.04							

MIN. CB INTER. CAP. 10,000 AMPS

TOTAL CONNECTED LOADS 84.12
TOTAL DEMAND LOADS 53.88 KVA / 150 AMPS

SINGLE LINE DIAGRAM



LEGEND

- CEILING MOUNTED 1'x4' FLUORESCENT LIGHT FIXTURE WITH BOX.
- ILLUMINATED EXIT SIGN AND JUNCTION BOX, CEILING OR WALL MOUNTED, SHADED PORTION INDICATES FACE(S) ON SIGN, ARROW INDICATES DIRECTIONAL ARROWS IN FACE.
- $a SINGLE POLE SWITCH AND BOX, WALL MOUNTED,+48". LOWER CASE LETTER INDICATES CIRCUIT CONTROLLED BY SWITCH.
- $3 THREE WAY SWITCH AND BOX, +48".
- $p SWITCH WITH PILOT LIGHT AND BOX, +48".
- $T HORSEPOWER RATED TOGGLE SWITCH WITH THERMAL OVERLOADS.
- (R)H TIME DELAY RELAY, +42" WITH SEPARATE SWITCH FOR LIGHTING, FURNISHED BY MECHANICAL, INSTALLED AND CONNECTED BY ELECTRICAL.
- SINGLE RECEPTACLE 20A, 125V, 3WG, NEMA 5-20R, +15"(UON)
- DUPLEX RECEPTACLE 20A, 125V, 3WG, NEMA 5-20R, +15"(UON). (WP= WEATHERPROOF, D= DEDICATED)
- QUADRUPLEX RECEPTACLE 20A, 125V, 3WG, NEMA 5-20R, +15"(UON). (WP= WEATHERPROOF, D= DEDICATED)
- CEILING MOUNTED DUPLEX RECEPTACLE, 20A, 125V, 3WG, MOUNT ABOVE SHOW WINDOW. RECEPTACLE AND PLATE COVER SHALL MATCH CEILING OR PER GAP REP. MOUNT PARALLEL WITH STORE FRONT.
- FLOOR MOUNTED DUPLEX RECEPTACLE. HUBBELL #B-2529 SHALLOW BOX WITH HUBBELL #5252, 20AMP DUPLEX RECEPTACLE AND HUBBELL S-3925 BRASS FLUSH FLOOR FITTING.
- (J) JUNCTION OR OUTLET BOX MOUNTED ABOVE CEILING WITH BLANK COVER.
- (J)H WALL MOUNTED JUNCTION OR OUTLET BOX WITH BLANK COVER, FLUSH, HEIGHT AS INDICATED.
- TSH WALL MOUNTED TIMESWITCH.
- (T)H WALL MOUNTED THERMOSTAT. FURNISHED & INSTALLED BY MECHANICAL, CONNECTED BY ELECTRICAL.
- FUSED DISCONNECT SWITCH WITH DUAL ELEMENT FUSES.
- (M) MOTOR OUTLET AND FLEX CONNECTION TO MOTOR.
- PANELBOARD, FLUSH, SURFACE.
- BRANCH CIRCUIT WIRING IN CONDUIT CONCEALED IN CEILING OR WALL.
- BRANCH CIRCUIT WIRING IN CONDUIT CONCEALED UNDERFLOOR OR UNDERGROUND.
- BRANCH CIRCUIT HOMERUN TO PANEL.
- CONDUIT, 1/2"- 2 # 12 MINIMUM. HASHMARKS INDICATE NUMBER OF WIRES AND SIZE OTHER THAN # 12. "G"ON HASHMARKS INDICATES INSULATED/ISOLATED GROUND WIRE.
- FLEXIBLE CONDUIT WITH CONNECTION TO EQUIPMENT.
- —T→ TELEPHONE SYSTEM CONDUIT HOMERUN WITH PULLCORD. 1"C. MIN.(UON).
- —D→ DATA SYSTEM CONDUIT WITH PULLCORD ONLY, 3/4"C (UON).
- AREA BRANCH CIRCUIT INDICATION. HOMERUN FOR CIRCUITS SHOWN IS TO ORIGINATE FROM AN OUTLET, RECEPTACLE, LIGHTING OUTLET ETC. IN THE AREA.
- FLASHED ROOF JACK.
- TELEPHONE OUTLET, FLUSH MOUNT IN WALL, +18"AFF WITH 3/4"C AND PULLCORD UP TO ABOVE ACCESSIBLE CEILING SPACE.
- [S] CEILING MOUNTED FREESPACE SPEAKER
- ■ BASS MODULE MOUNTED ABOVE FINISHED CEILING
- (SD) DUCT MOUNTED FIRE ALARM SMOKE DETECTOR.
- [C]H CONTROLER OUTLET
- [T] DRY TYPE TRANSFORMER
- [F]H FIRE ALARM HORN WITH STROBE +80"AFF OR 6" BELOW THE CEILING WHICHEVER IS LOWER
- [A]H FIRE ALARM PULL STATION +48" AFF FOR FORWARD REACH & 54" AFF FOR SIDE REACH
- (SD) CEILING MOUNTED FIRE ALARM SMOKE DETECTOR, (UON).

PER LOCAL FIRE ALARM CODE AND FIRE MARSHALL REQUIREMENTS

DRAWING INDEX

E1-0 SYMBOL LIST, DRAWING INDEX, PANEL SCHEDULE, SINGLE LINE DIAGRAM
ED-1 ELECTRICAL DEMOLITION PLAN
E-2 LIGHTING PLAN
E-3 POWER PLAN

REGISTERED PROFESSIONAL ENGINEER
TOMISLAV Z. GALIC
No.E015130
Exp.6-30-00
ELECTRICAL
STATE OF CALIFORNIA

REVISIONS
△ BID 6.3.98
△
△

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SYMBOL LIST, DRAWING INDEX, PANEL SCHEDULE, SINGLE LINGE DIAGRAM

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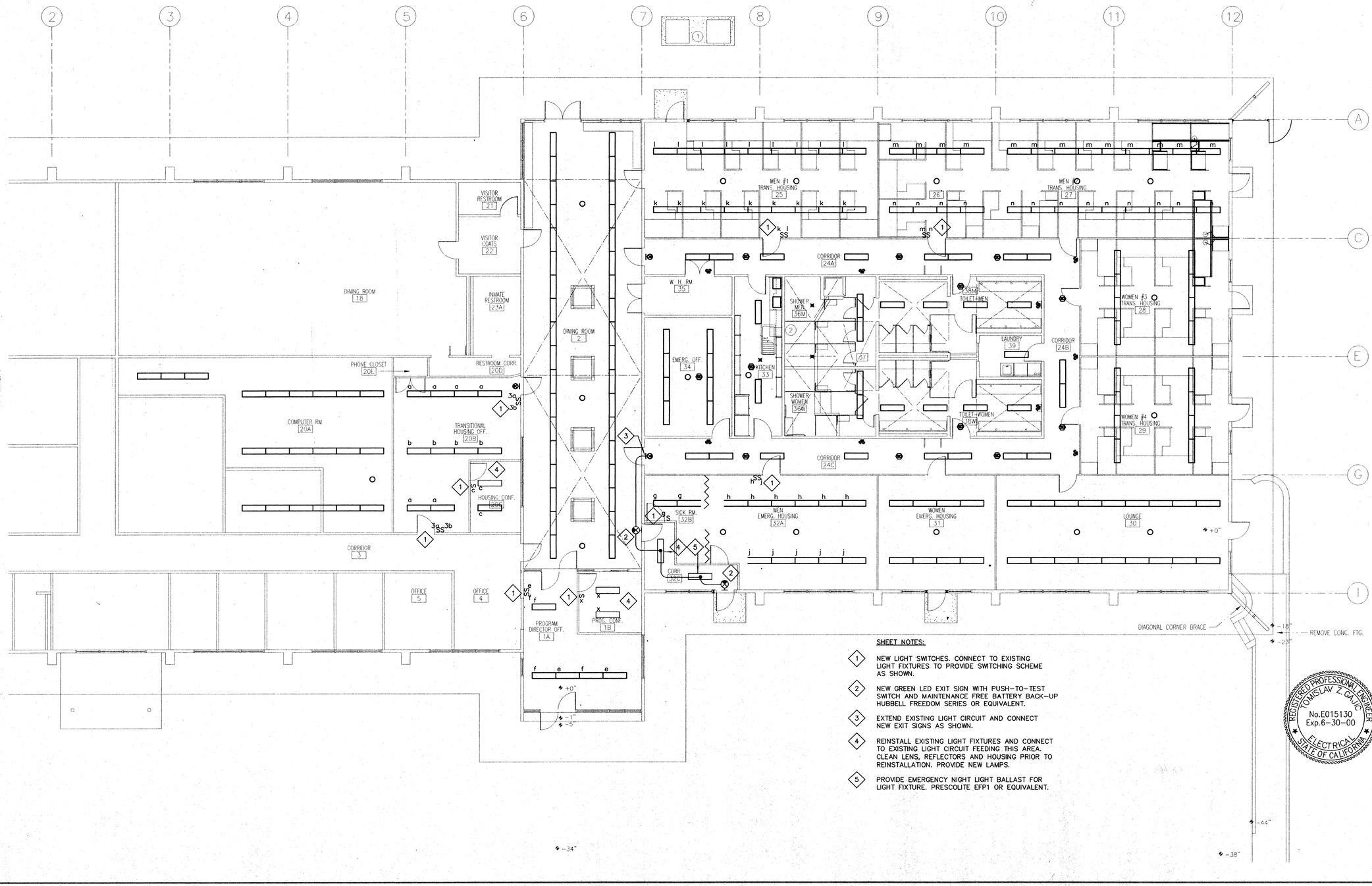
SHEET E-1
OF SHEETS



SHEET NOTES:

1. NEW LIGHT SWITCHES. CONNECT TO EXISTING LIGHT FIXTURES TO PROVIDE SWITCHING SCHEME AS SHOWN.
2. NEW GREEN LED EXIT SIGN WITH PUSH-TO-TEST SWITCH AND MAINTENANCE FREE BATTERY BACK-UP HUBBELL FREEDOM SERIES OR EQUIVALENT.
3. EXTEND EXISTING LIGHT CIRCUIT AND CONNECT NEW EXIT SIGNS AS SHOWN.
4. REINSTALL EXISTING LIGHT FIXTURES AND CONNECT TO EXISTING LIGHT CIRCUIT FEEDING THIS AREA. CLEAN LENS, REFLECTORS AND HOUSING PRIOR TO REINSTALLATION. PROVIDE NEW LAMPS.
5. PROVIDE EMERGENCY NIGHT LIGHT BALLAST FOR LIGHT FIXTURE. PRESCOLITE EFP1 OR EQUIVALENT.

REGISTERED PROFESSIONAL ENGINEER
TOMISLAV Z. GALIC
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2	
3	

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LIGHTING PLAN

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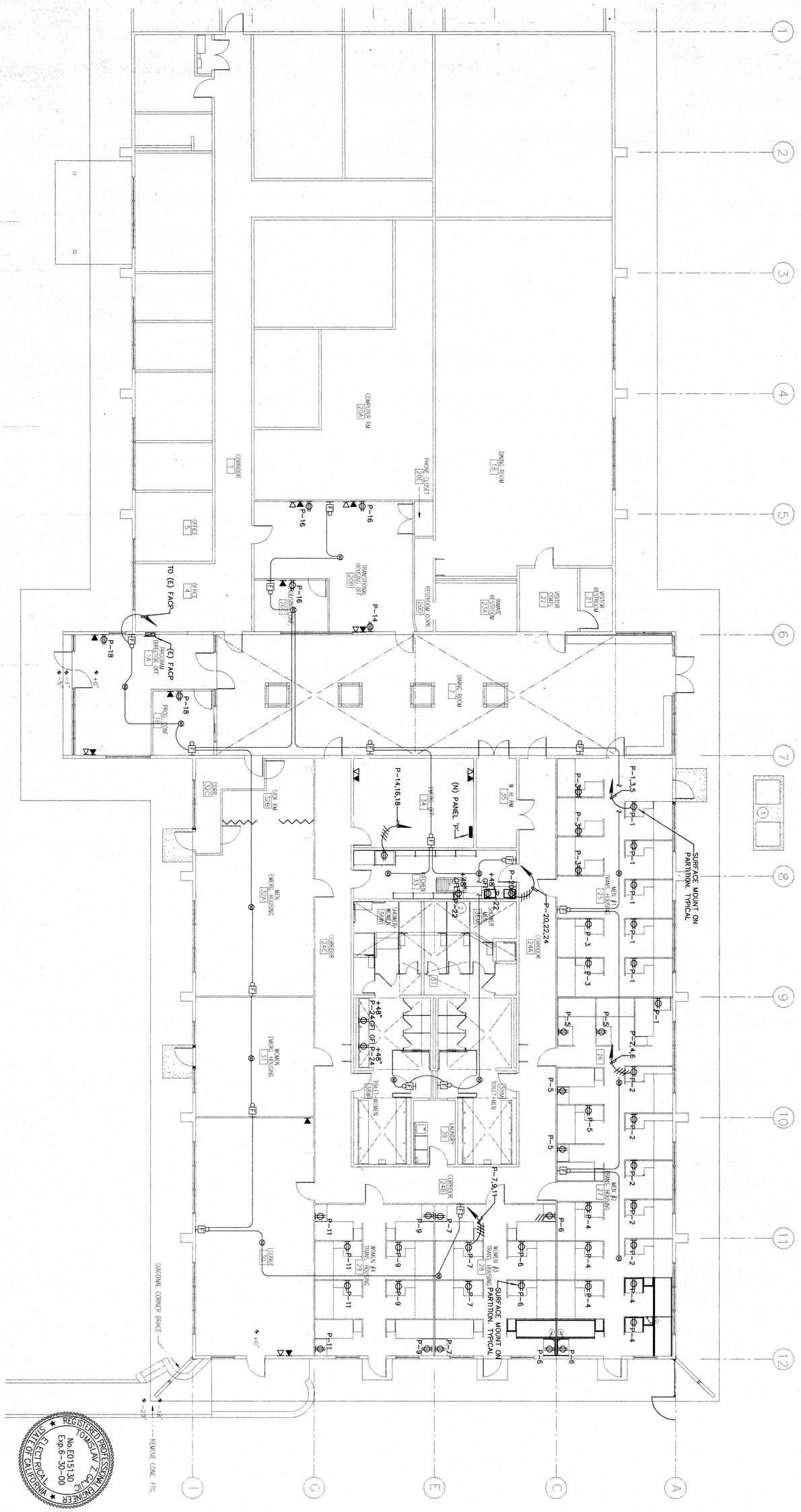
SHEET	E-2
OF	SHEETS



POWER PLAN

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REVISIONS	DATE
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SHEET E-3
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