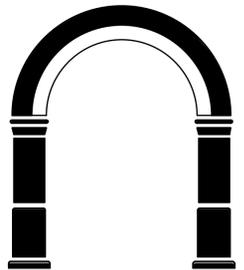


LifeMoves Maple Street Shelter



CJW 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.C. 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 Sheet

REVISIONS

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

JOB: 2015.2801

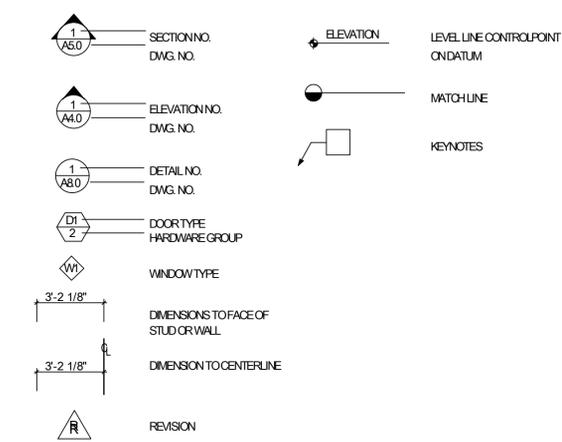
DATE: 6/17/2016

SHEET: T-0.1

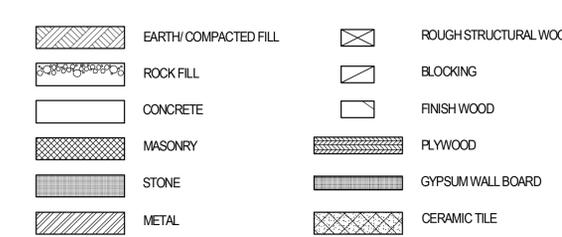
ABBREVIATIONS

ACCESS DOOR	AD	EXPANSION JOINT	EXP.	PAINTED PARTITION	PTD
ACCESS PANEL	AP	EXPANSION JOINT	EXP.JT.	PANIC BAR	PB
ACOUSTICAL	ACOUST.	EXTENSION	EXT.	PERFORATED PLASTER	PERF. PLAS.
ADHESIVE	AQH	EXTERIOR	EXT.	PLASTER	PLAS.
ADJUSTABLE	AJU	FACE OF FIBER BOARD	FB	PLYWOOD	PLY.WD.
AGGREGATE	AGGR.	FINISH	FIN	POINT	PT.
AIR CONDITIONER	AC	FIRE ALARM	FA	POLISHED PLATE GLASS	PPLG
ALUMINUM	AL	FIRE EXTINGUISHER	F.E.	POLYVINYL CHLORIDE	PVC
ANCHOR BOLT	AB	FIRE EXTINGUISHER CABINET	F.E.C.	POUNDS PER SQUARE FOOT	PSF.
AREA DRAIN	AD	FIRE TREATED FLASHING	F.T.	POUNDS PER SQUARE INCH	PSI.
ASBESTOS	ASB.	FLAT BAR	FB	FRE-CAST CONCRETE	PROP. PL.
ASBESTOS CEMENT PIPE	ACP	FLAT HEADED WOOD SCREW	F.H.W.S.	PROPERTY LINE	PROP. PL.
ASPHALT	ASPH.	FLOOR DRAIN	FD	RADIUS	R
ASPHALTIC CONCRETE	AC	FLOORING	FLG.	REDWOOD	RWD
BEGINNING OF VERTICAL CURVE	B.M.V.C.	FLOWLINE	FL	REFRIGERATOR	REF.
BENCH MARK	BM	FLOOR JOINT	FJ	REINFORCED CONCRETE PIPE	RCP
BLOCKING	BLKG.	FLOOR JOINT	FJ	REINFORCING	REINF.
BOARD	BD	FLOOR JOINT	FJ	REQUIRED	REQD.
BOTTOM	BTM	FLOOR JOINT	FJ	RESILIENT	RESIL.
BUILDING	BLDG.	GAGE OR GAUGE	GA	RESISTANT	RESIST.
CABINET	CAB.	GALVANIZED	GAUV.	ROOM DRAIN	RD
CARRIAGE BOLT	CB	GALVANIZED IRON	GI	ROUND HEADED WOOD SCREW	R.H.W.S.
CAST-IN-PLACE CONCRETE	CIP	GLASS	GL	RIGHT OF WAY	R.O.W.
CAST-IRON PIPE	CIP	GLUE LAM BEAM	GLB	SCHEDULE SECTION	SCHED. SECT.
CATCH BASIN	CB	GRADE	GR	SELECT SHEATHING	SEL. SHTHG.
CEILING	CLG.	GYPSUM	GYP.	SIDING	SDG.
CEMENT CENTER	CEM	HANGER	HGR.	SIMILAR SINGLE ACTING	SIM. SA
CENTER TO CENTER	C.T.C.	HARDWARE	H.W.	SOLID CORE	SC
CERAMIC	CER.	HARDWOOD	H.W.D.	SPACE	SP.
CLEAN OUT TO FLOOR	C.O.F.	HARDWOOD	H.W.D.	SQUARE	SQ.
CLEAN OUT TO GRADE	C.O.G.	HEATER	HTR.	STAINLESS STEEL	S.S.
CLEAR	CLR.	HEIGHT	HT.	STANDARD	STD.
CLOSET	CLO.	HIGH STRENGTH BOLT	H.S.B.	STEEL	STL.
COLUMN	COL.	HOLLOW CORE CONCRETE	H.C.	STORAGE	STRG.
CONCRETE	CONC.	HORIZONTAL HOSE BIB	HOR.	STRUCTURAL SUSPENDED	STR. SUSP.
CONCRETE PIPE, UNREINFORCED	C.P.	HOUR	HR.	SYMBOL	SYMB.
CONSTRUCTION	CONST.	INSIDE DIAMETER	ID.	SYMMETRICAL	SYMM.
CONSTRUCTION JOINT	CJ	INSULATION	INS.	TELEPHONE	TEL.
CONTINUOUS CORRUGATED METAL PIPE	C.C.M.P.	INTERIOR	INT.	TEMPERED	TEMPD.
COUNTER	CTR.	INVERT ELEVATION	IE	TERRAZZO	TER.
COUNTERSINK	CSK	JOINT	JT.	TIE DOWN	TD
CURB	CRB.	LAMINATE(D)	LAM.	TONGUE AND GROOVE	T&G
CURB INLET	CI	LAVATORY	LAV.	TOP OF CURB	TC
DETAIL	DET.	MACHINE	MACH.	TOP OF RAIL	TR
DIAMETER	DM	MACHINE BOLT	M.C.B.	TYPICAL	TYP.
DIMENSION	DM	MANHOLE	M.H.	UNDERGROUND UNLESS OTHERWISE NOTED	UG. UNLESS OTHERWISE NOTED
DISPENSER	DSP	MANUFACTURER(S)	MFR.	VENT THROUGH ROOF	VTR.
DOOR	DR	MANUFACTURING	MFG.	VERTICAL	VERT.
DOUBLE	DBL.	MAXIMUM	MAX.	VERTICAL CURVE	VC
DOUBLE-ACTING DOUGLAS FIR	D.A.D.F.	MECHANICAL	MECH.	VERTICAL GRAIN	VG
DOWN	DN	METAL MOUNTING	MTG.	VINYL ASBESTOS TILE	VAT.
DOWN SPOUT	DS	NEW	NEW	VITREOUS CLAY PIPE	VCP.
DRAIN	DRN	NOMINAL	NOM.	WAREHOUSE	WHSE.
DRINKING FOUNTAIN	DF	NOT IN CONTRACT	N.I.C.	WATER CLOSET	WC.
DRAWING	DWG.	OBSCURE	OB.	WATER HEATER	WH.
DUCTILE IRON PIPE	DIP	ON CENTER	OC	WATERPROOF WEAKENED PLANE JOINT	WP.W.P.J.
EACH	EA	OPENING	OPNG.	WINDOW	WDN.
EACH FACE	EF	OPPOSITE	OPP.	WITH	W.
EACH WAY	EW	OUTSIDE DIAMETER	OD	WITHOUT	WO.
EDGE OF PAVEMENT	EP	OUTSIDE FACE OF STUD	OFS.	WOOD	WD.
ELECTRIC	ELEC.	OVAL HEADED WOOD SCREW	O.H.W.S.		
ELECTRIC WATER COOLER	E.W.C.				
ELEVATION	EL				
ELEVATOR	ELEV.				
EQUIP.	EQUIP.				
EQUIPMENT	EQU.				
EXISTING	(E)				

SYMBOLS LEGEND



MATERIALS LEGEND



PROJECT DATA

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

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
STRUCTURAL:	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 ENGINEERS, INC. 2495 INDUSTRIAL PARKWAY WEST HAYWARD, CA 94545 ATT.: Johnny Chiu T: 510-887-4066 F: 510-887-3019 E-MAIL: jchiu@leabraze.com
MEP:	TANTECH ENGINEERS, INC. 1431 CEDAR STREET SAN CARLOS, CA 94070 ATT.: John Tankah T: 415-269-4283 E-MAIL: tankah@comcast.net
LANDSCAPE:	RON HODGES LANDSCAPE ARCHITECT ATT.: Ron Hodges T: 707-481-4500 E-MAIL: ronh@hodges@gmail.com

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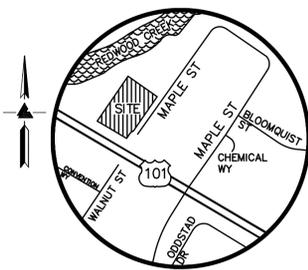
GENERAL NOTES

- CODE COMPLIANCE:**
 - Contract and Construction Documents include: AIA Document A201 (2007), the General Conditions of the contract for Construction.
 - All work is to be performed in accordance with all governing codes, ordinances, and regulations.
 - 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, w.o.n. verify field dimensions exceeding tolerance with the Architect, and secure Architect's approval.
- UTILITIES AND SITE WORK:**
 - 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.
 - Construction Documents include the Geotechnical Investigation Report By:
 - 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.
 - 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.
- DIMENSIONS:**
 - 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 herein take precedence over general floor plans, elevations, and sections.
 - Verify all dimensions on the job site prior to ordering or manufacturing.
- DISCREPANCIES:**
 - In case of any discrepancy in the contract documents, consult the Architect before proceeding.
- GENERAL CONTRACTOR RESPONSIBILITIES:**
 - 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.
 - 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.
 - General Contractor shall review all Contract and Construction Documents. Architectural Drawings include reflected ceiling, finish, electrical, lighting, and mechanical plans; and all schedules prior to pouring concrete and prior to framing. Coordinate locations of shafts, electrical wiring/conduit, HVAC ductwork, and light fixtures with locations of foundations and framing. It is imperative that locations of framing members do not conflict with locations of recessed light fixtures.
 - General Contractor shall install all appliances specified and all equipment specified according to the respective manufacturer's instructions. All instruction booklets, warranties, 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.
- 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 FINISHES. CONTRACTOR SHALL MAKE AND MAINTAIN A PHOTOGRAPHIC RECORD NOTEBOOK WITH DATED/INDEXED PHOTOGRAPHS.**
 - 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.
 - 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.
- EQUIPMENT BACKING:**
 - 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 puts wire.
 - 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.
- WEATHERPROOFING:**
 - Weather-strip all exterior doors and windows.
 - Caulk or otherwise seal around all openings to limit infiltration, including but not limited to: Exterior joints around windows and door frames, between sole plates and floors, at exterior wall intersections and corners, and between exterior wall panels.
 - General Contractor shall verify that all work on the exterior of the project is watertight. All joints exposed to the elements shall be tested for water tightness prior to substantial completion.

3:16 PM

Monday, June 27, 2016

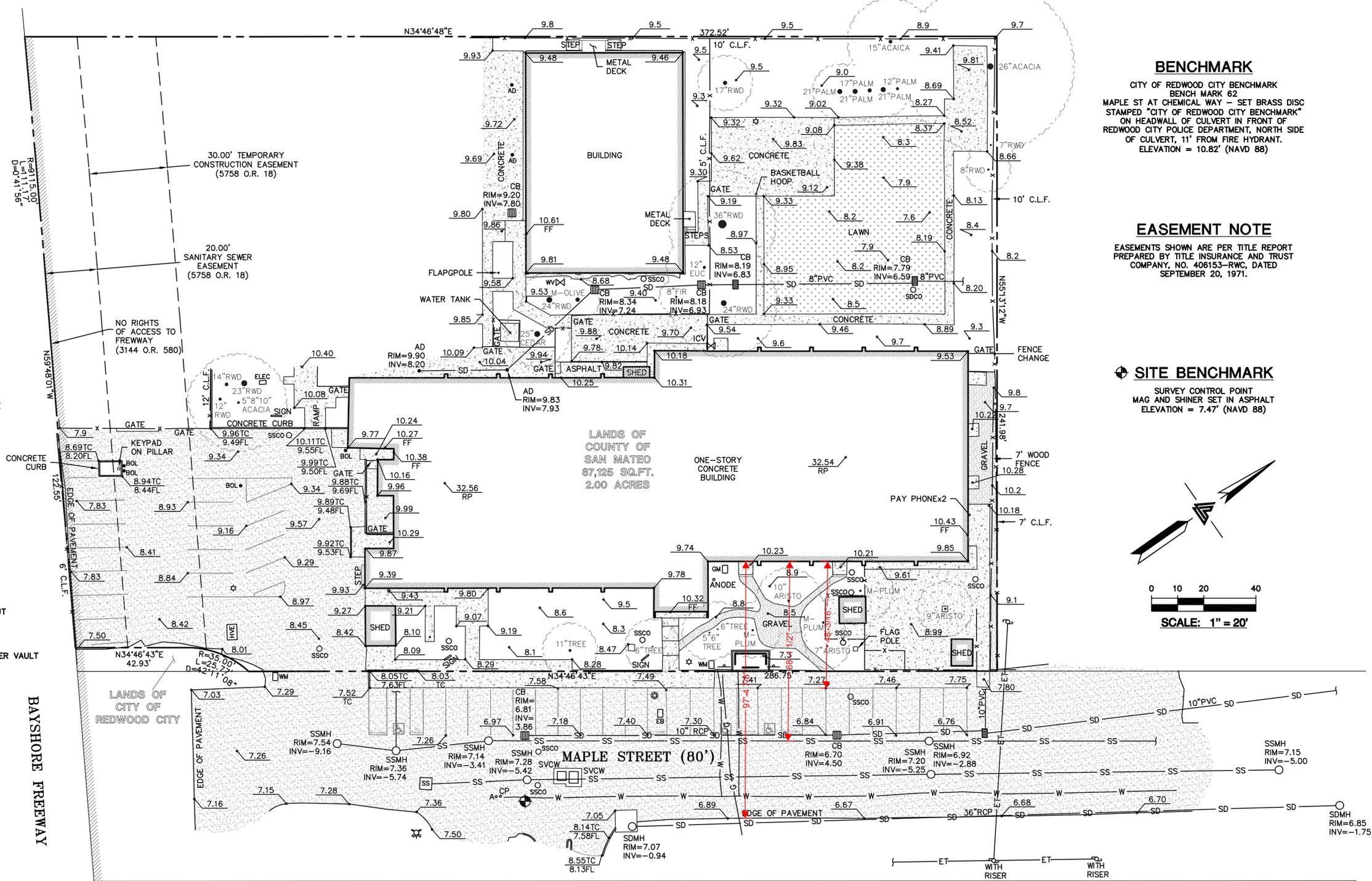
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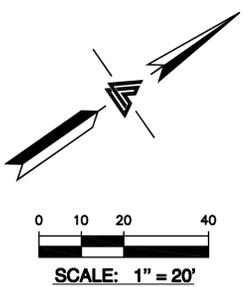
VICINITY MAP
NO SCALE

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
- FD 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
- SPOTGRADE
- ASPHALT
- CONCRETE
- GRAVEL
- LAWN
- TREE: TYPE AND SIZE AS NOTED



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



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.



LEA & BRAZE ENGINEERING, INC.
CIVIL ENGINEERS • LAND SURVEYORS
SACRAMENTO REGION
3017 DOUGLAS BLVD., # 300
ROSEVILLE, CA 95661
HAYWARD, CALIFORNIA 94545
(P) (916) 966-1338
(F) (510) 887-4086
(F) (916) 797-7363
WWW.LEA-BRAZE.COM

1580 MAPLE STREET
REDWOOD CITY,
CALIFORNIA

TOPOGRAPHIC SURVEY

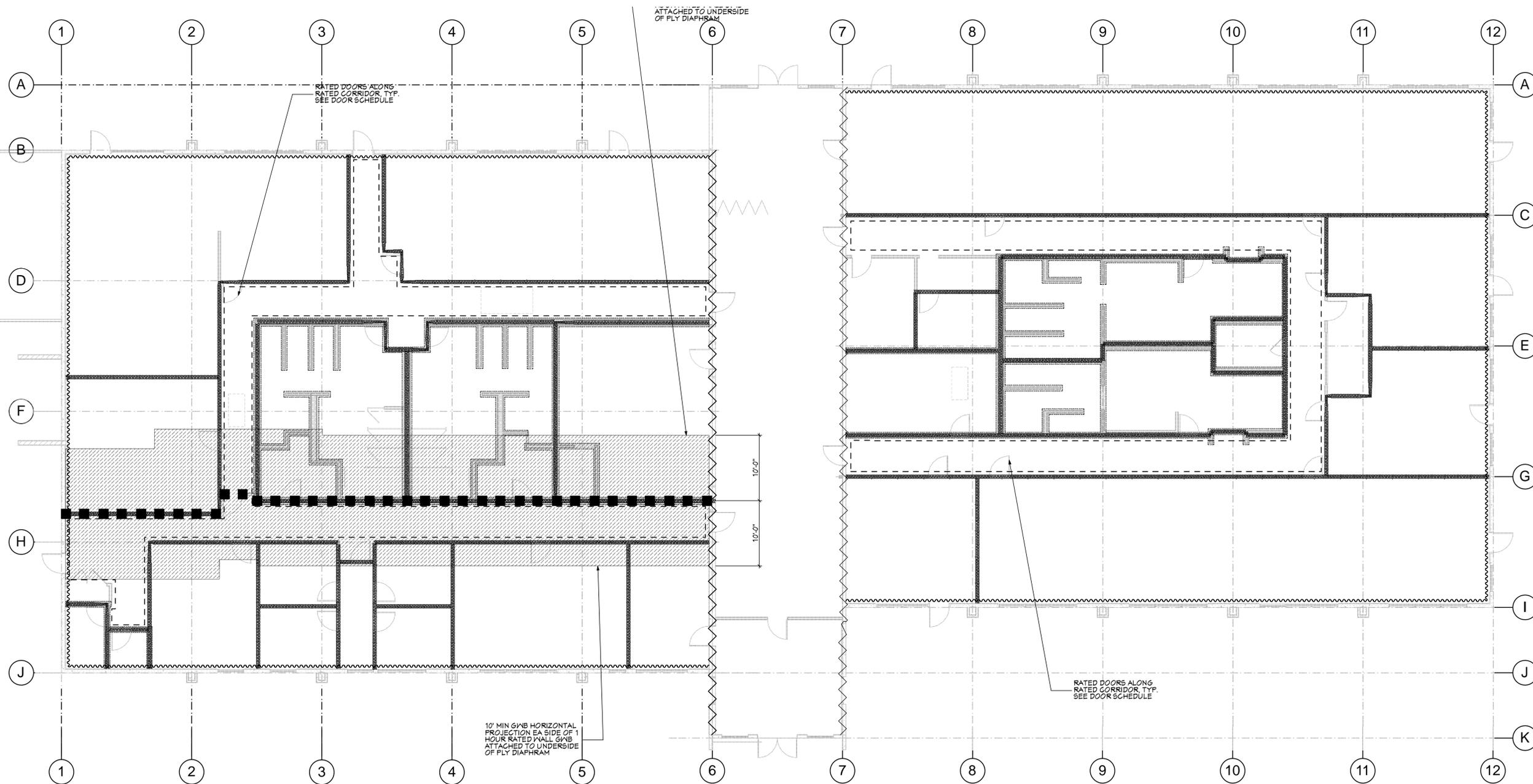
REVISIONS	BY

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

2:12 PM

Monday, June 27, 2016

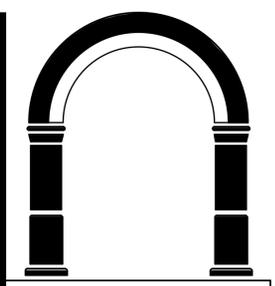
BIM Server: CJW BIM Server 19 - BIM Server 19/2015/Maple Street Shelter_1



1 Wall Rating Plan 1/8" = 1'-0"

WALL RATINGS LEGEND

- ■ ■ 1 HOUR RATED PARTITION TO JOIST ABOVE WITH HORIZONTAL GNB PROJECTION 10" EITHER SIDE OF WALL
- ~~~~~ 1 1/2" SPRAY FOAM INSUL (OR RIDGID) W/ 1 1/2" HAT CHANNELS
- ▨▨▨▨▨ 4" OR 6" STUD WALL W/ SOUND BATTS.
- 1 HOUR CORRIDOR TUNNEL CONSTRUCTION
- ~~~~~ (E) 2 HOUR CONCRETE OCCUPANCY SEPARATION WALLS
- ▨▨▨▨▨ 6" HIGH X WALL WIDTH CONG. CURB SEE DETAIL



CJW 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 •

1 Hour Corridors, Wall Ratings, Curbs & Insulation

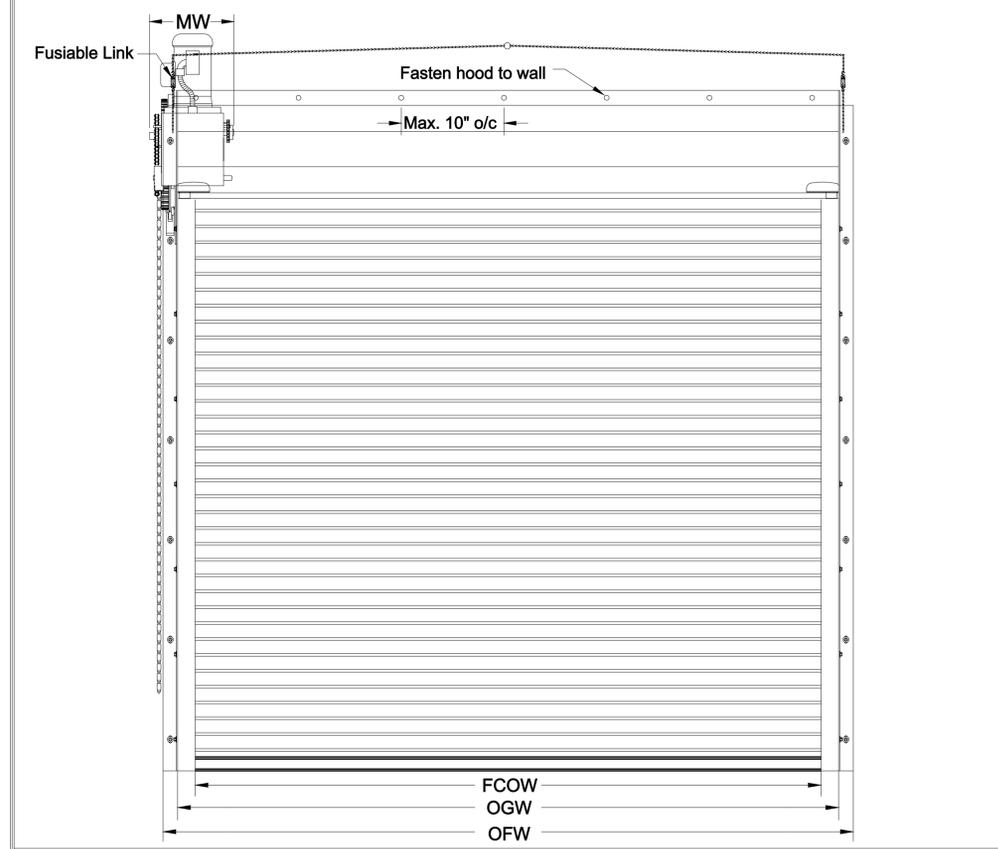
• REVISIONS •

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

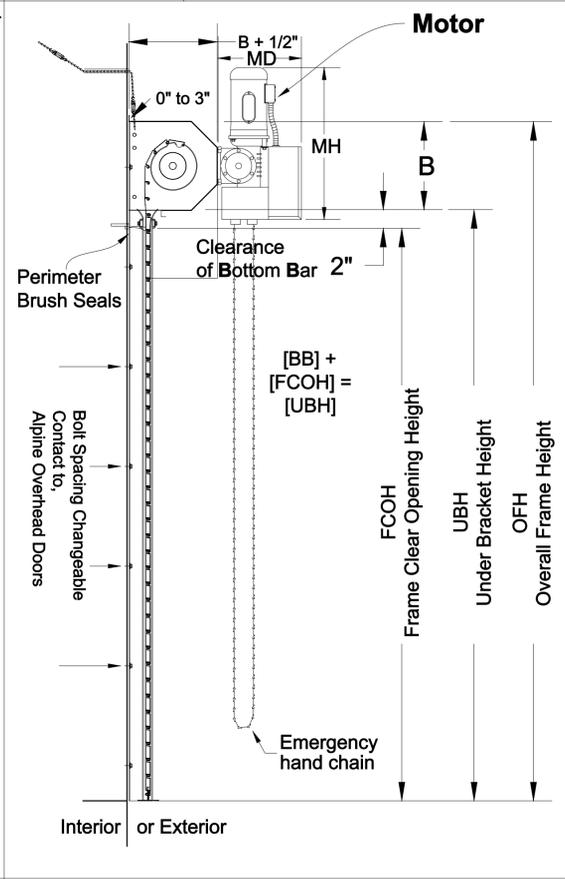
• JOB: 2015.2801
 • DATE: 6/17/2016
 • SHEET: A-2.8

PROJECT: Maple Street Shelter CONTRACT # / P.O. # : FILE NAME: WEB GENERATE DRAWING # : 6820 ESTIMATED PRELIMINARY DRAWING SUBJECT TO CHANGE FOR PRODUCTION OR FABRICATION

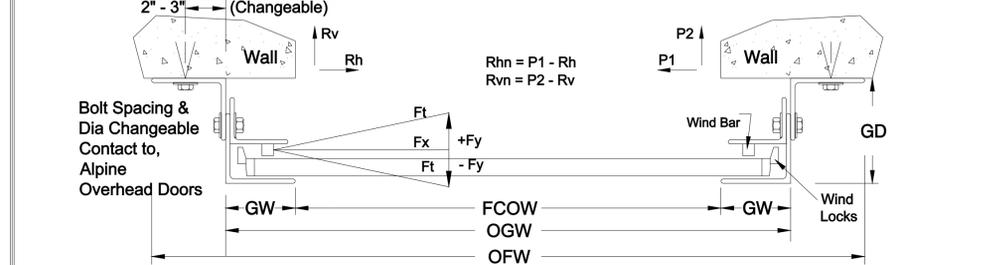
DRAWING NOT IN SCALE Door is shown right hand drive, left hand is opposite.



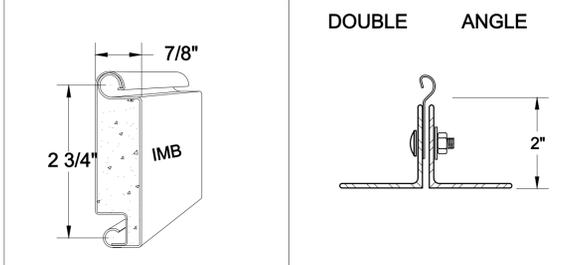
COIL SIDE ELEVATION



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:

- 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.
- Opening prep, supports, substrates, framing, jambs, lintels and structurally sufficient wall construction are not included by Alpine Overhead Doors, Inc.
- All exposed ferrous surfaces, except stainless steel, shall receive one coat of rust-inhibitive primer.
- Operation: Motor, Left Hand Side
- Locking: None (Alpine Offers, Slide Locks, Cylinder Locks & Pin Locks)
- Fire rated doors must be installed in strict accordance with NFPA 80.
- Doors carries a U.L. rated.
- Door is built in accordance with Protocol 201, 202 & 203. See Notice of Acceptance for applicable location.

Building Note:

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

MATERIAL

CURTAIN : 22 GA. Stainless Steel roll formed 7/8" thick IMB slat sections	HOOD : 24 GA. Stainless Steel formed to fit hexagon brackets
FINISH : Stainless Steel	FINISH : Stainless Steel
GUIDE : Designed using angles consisting of structural steel, Mount face of the wall	BOTTOM BAR : Two Stainless Steel Double Angles extending into guides.
FINISH : Stainless Steel	FINISH : Stainless Steel

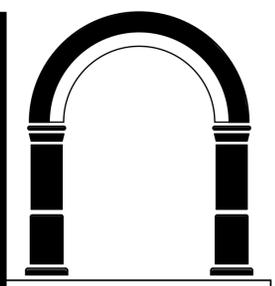
QUANTITY	MARK	FRAME CLEAR OPENING		OVERALL GUIDE O G Width	UNDER BRACKET U B Height	OVERALL FRAME		BRACKET B	GUIDE WIDTH GW	GUIDE DEPTH GD	Tube Size TS	DRIVE DR	OPERATION OP	MOTOR SPECIFICATIONS		
		F C O Width	F C O Height			O F Width	O F Height							H-Power	Volt	Phase
1	I	17'-0"	7'-0"	17.58	7.334	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 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
 DRAWN BY: Web Generate
 CHECK:
 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



CJW 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.



• PROJECT •

LifeMoves Maple Street Shelter
 1580 Maple Street
 Redwood City CA 94063

• SHEET TITLE •

Kitchen Roolup Door Details

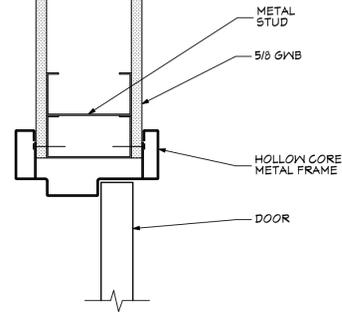
• REVISIONS •

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

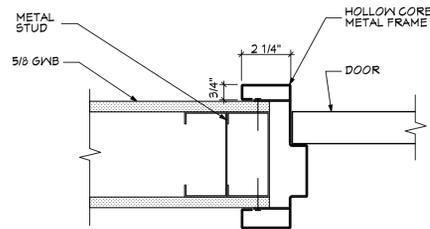
• JOB: 2015.2801

• DATE: 6/17/2016

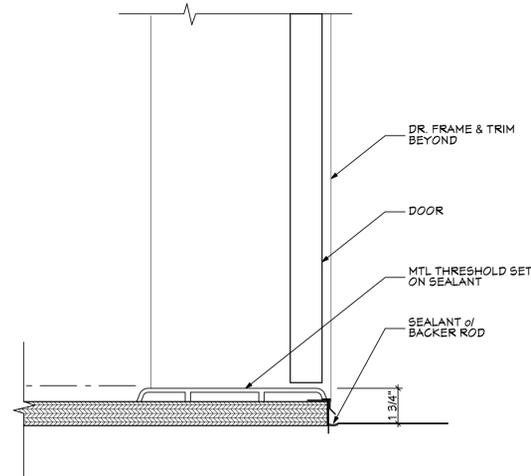
• SHEET: A-7.3



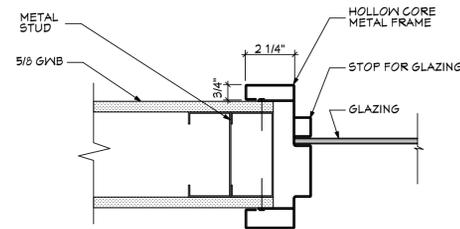
10 Interior Door Header 3" = 1'-0"



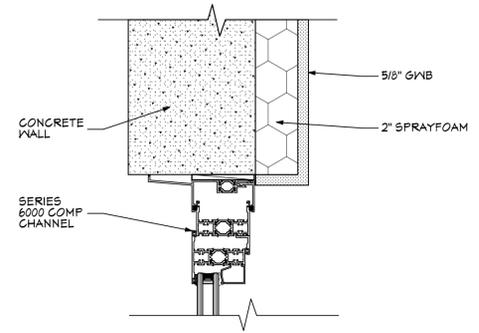
11 Interior Door Jamb 3" = 1'-0"



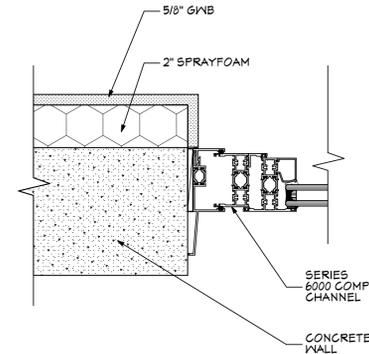
9 Exterior Door Threshold 3" = 1'-0"



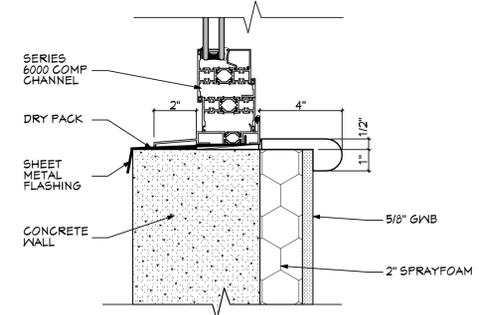
5 Interior Window Jamb 3" = 1'-0"



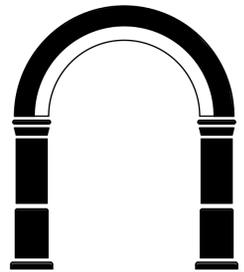
1 Exterior Window Header 3" = 1'-0"



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



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



CJW 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

Window & Door Details

REVISIONS

No.	Date	Notes

JOB: 2015.2801

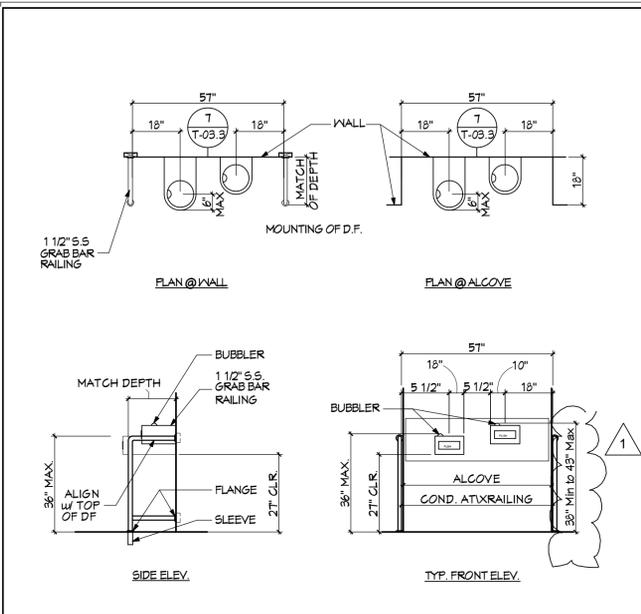
DATE: 6/17/2016

SHEET: A-7.5

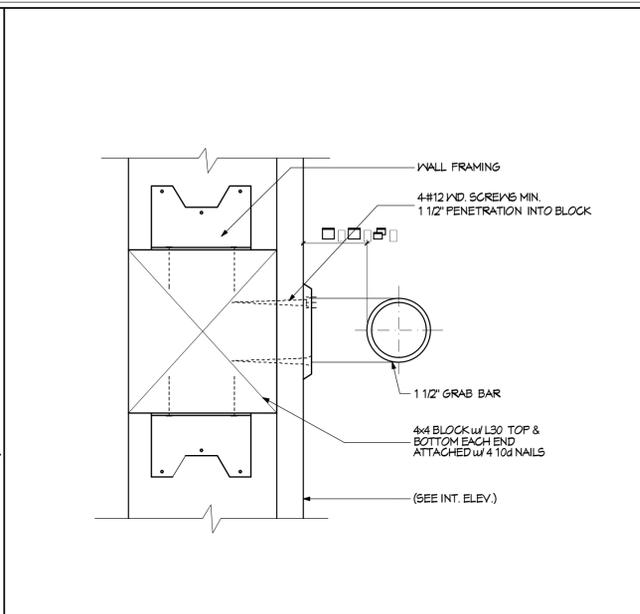
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Monday, June 27, 2016

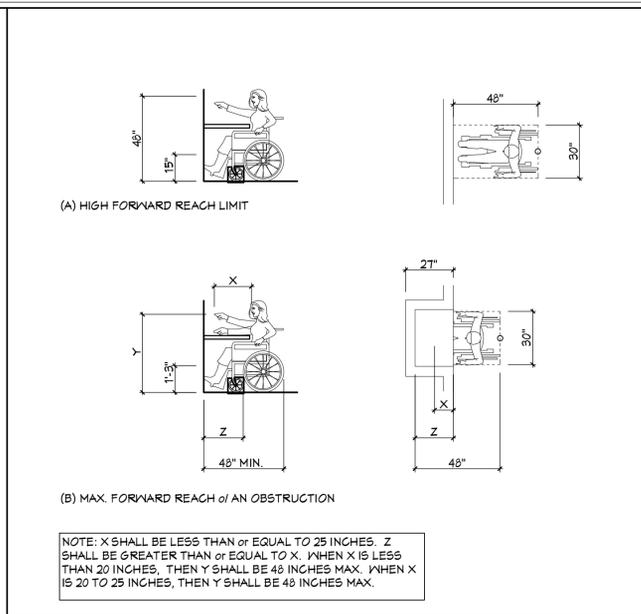
BIM Server: C:\JW BIM Server 19 - BIM Server 19\2015\Maple Street Shelter_1



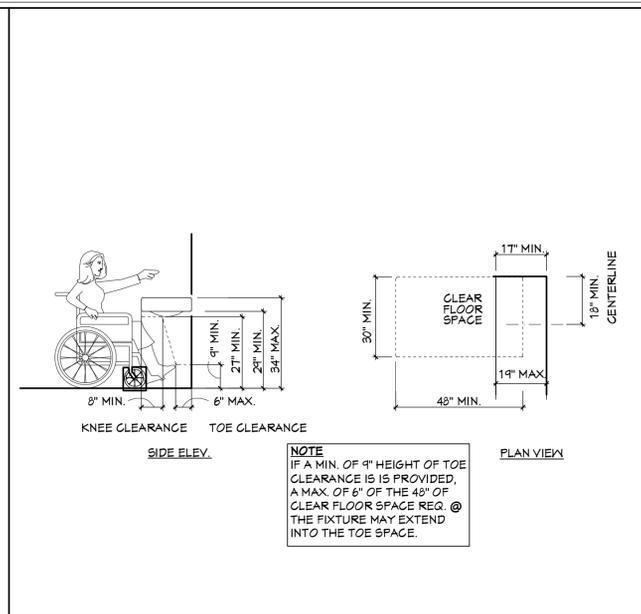
10 DRINKING FOUNTAIN DETAIL 3/8" = 1'-0"



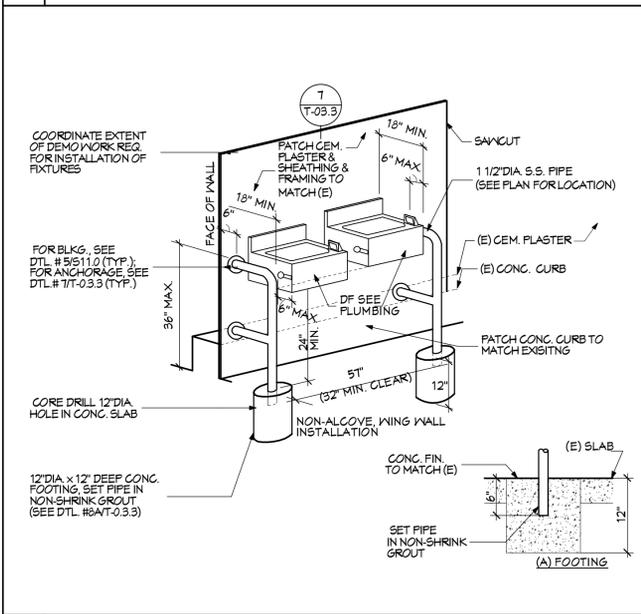
7 GRAB BAR DETAIL 6" = 1'-0"



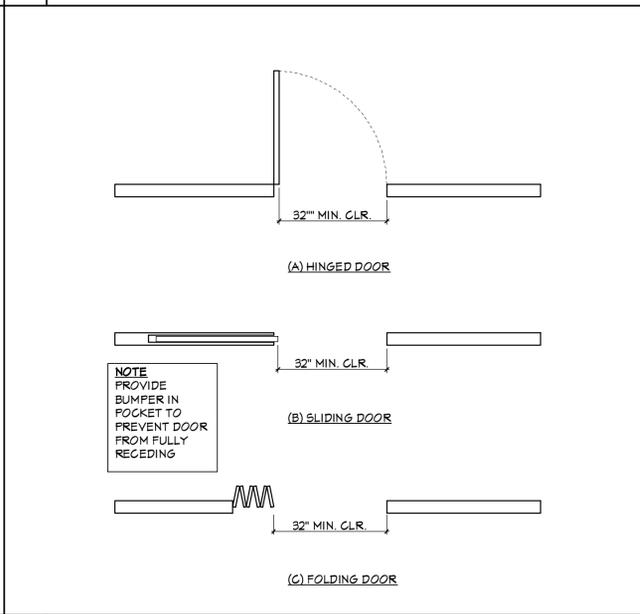
4 H.C. ACCESS 4 1/4" = 1'-0"



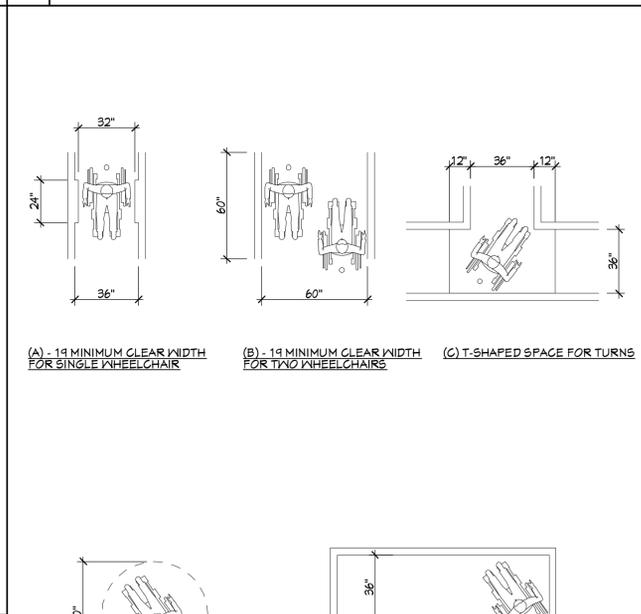
1 LAVATORY/SINK KNEE CLEARANCE 3/8" = 1'-0"



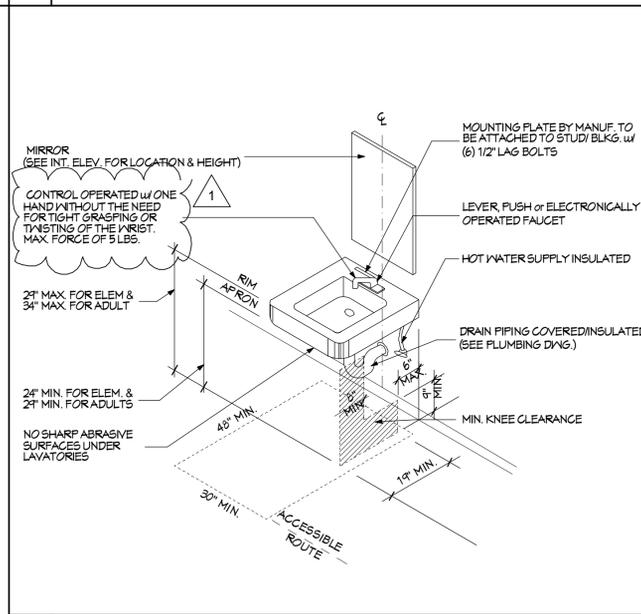
11 DRINKING FOUNTAIN MOUNTING 1/4" = 1'-0"



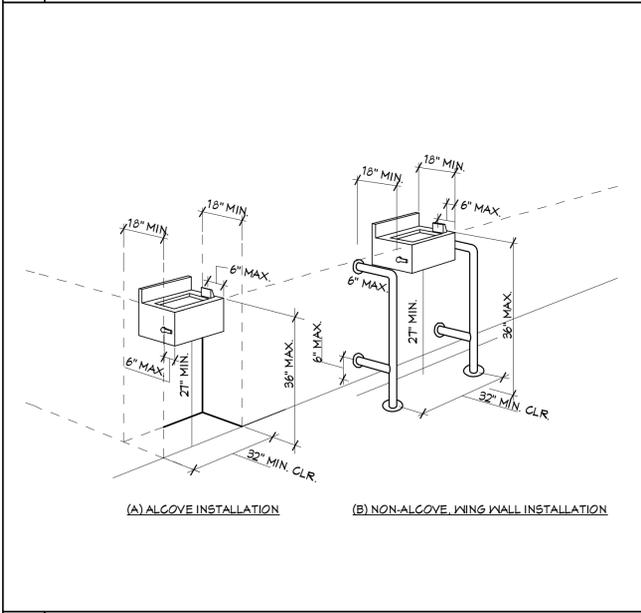
8 H.C. ACCESSIBILITY OPENINGS 1/2" = 1'-0"



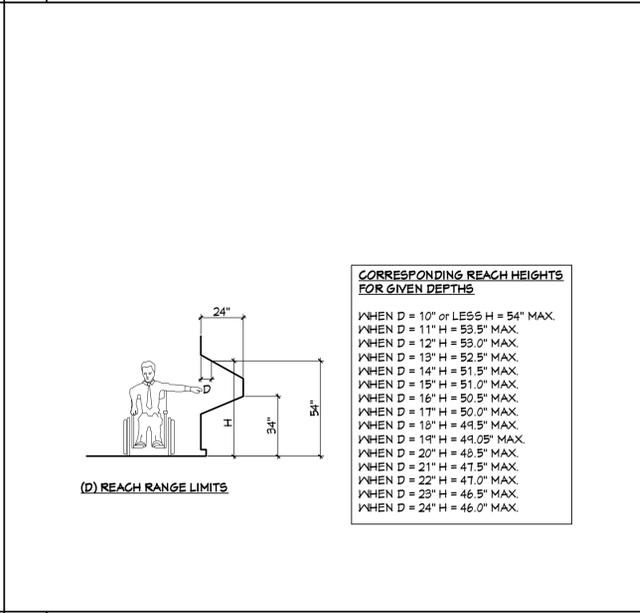
4 H.C. ACCESS 4 1/4" = 1'-0"



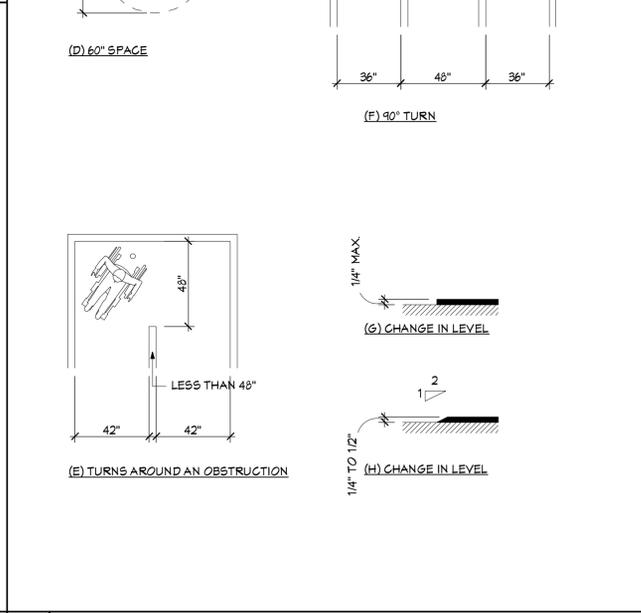
2 LAVATORY/SINK CLEARANCE DETAIL 1/4" = 1'-0"



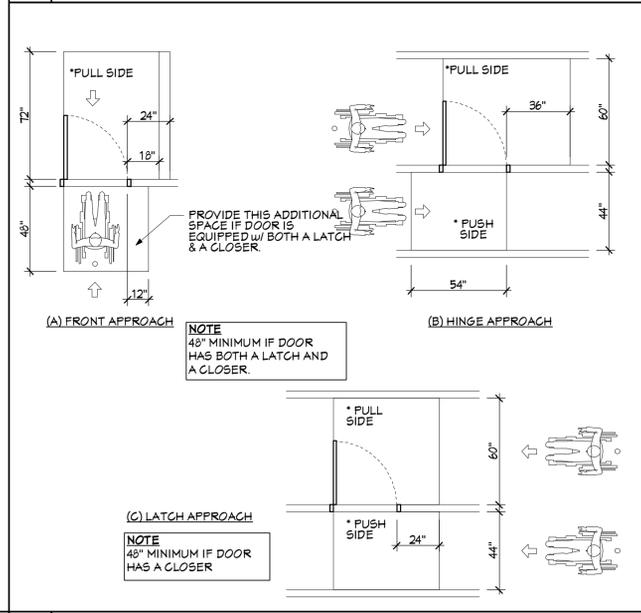
12 HC DRINKING FOUNTAIN 1/4" = 1'-0"



9 H.C. ACCESSIBILITY 1/4" = 1'-0"



6 H.C. ACCESS 6 1/4" = 1'-0"



3 H.C. ACCESS 3 1/4" = 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

ADA Details

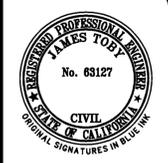
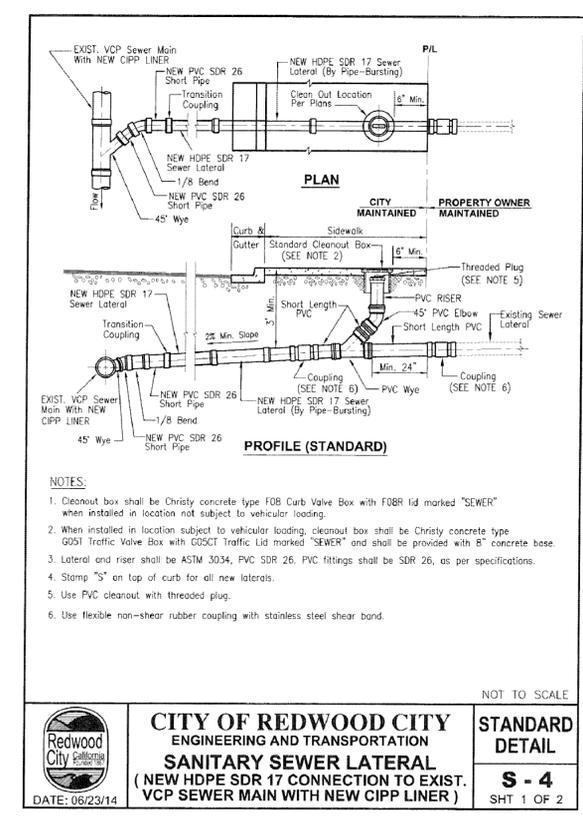
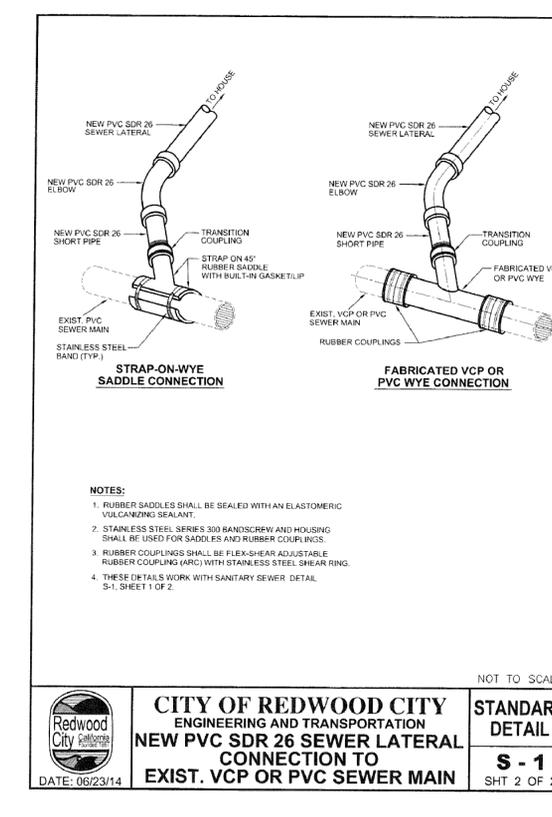
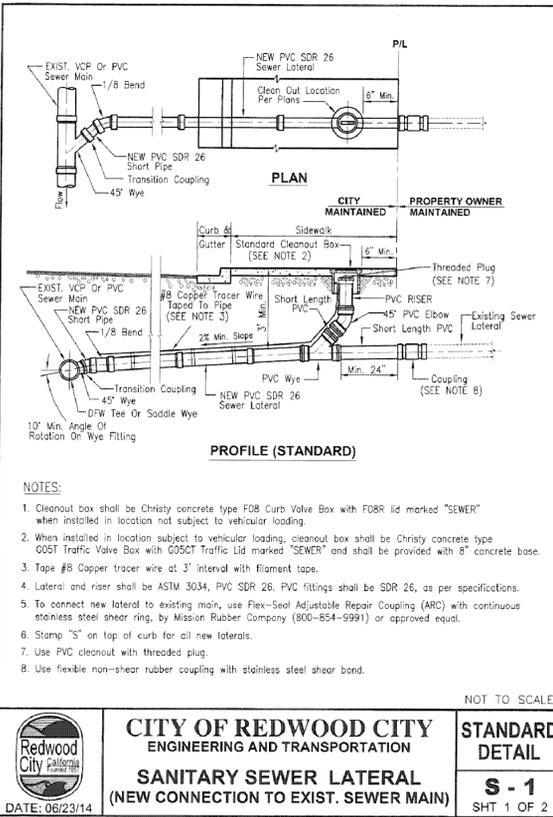
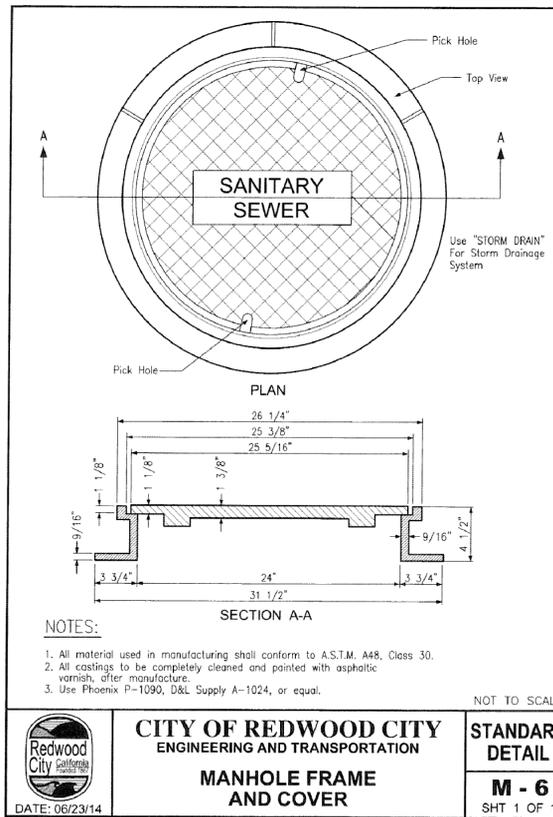
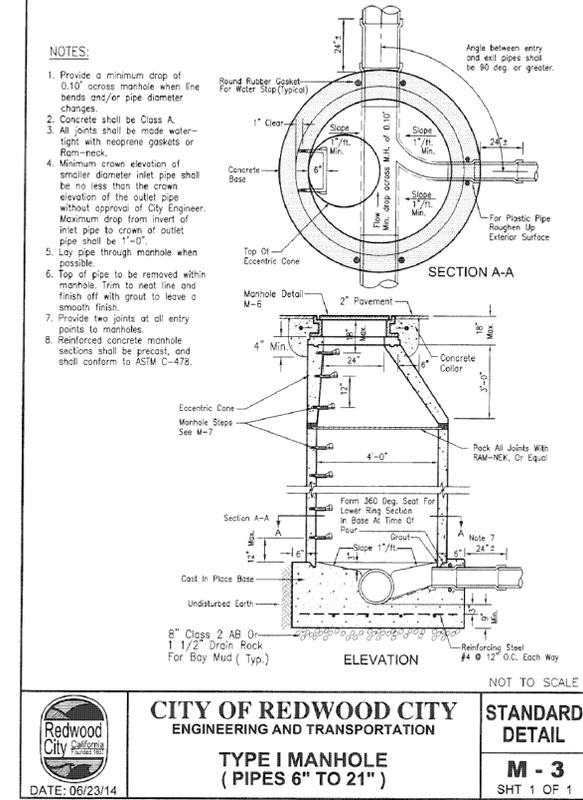
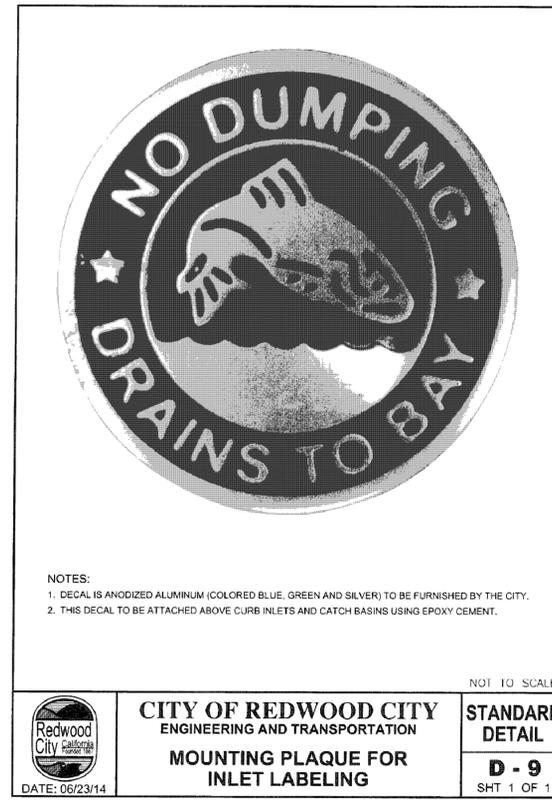
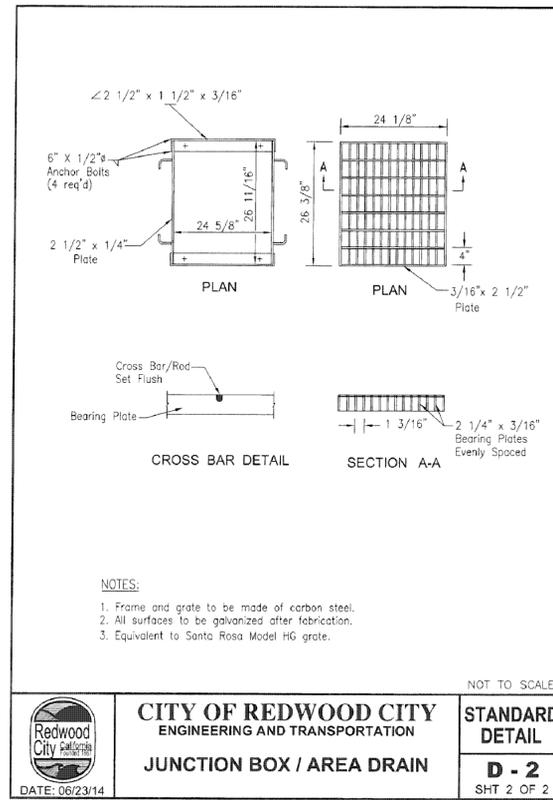
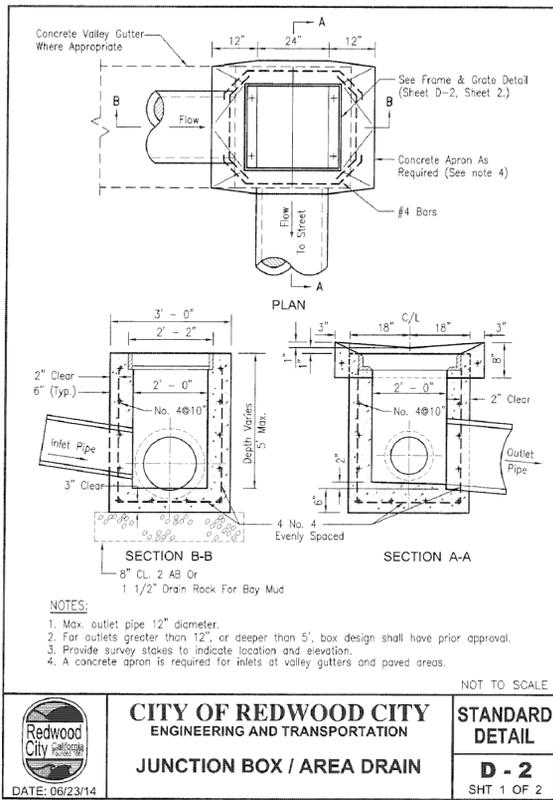
REVISIONS

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

JOB: 2015.2801

DATE: 6/17/2016

SHEET: A-7.8



LEA & BRAZE ENGINEERING, INC.
CIVIL ENGINEERS • LAND SURVEYORS
SACRAMENTO REGION
BAY AREA REGION
SACRAMENTO, CALIFORNIA 95861
HAYWARD, CALIFORNIA 94545
(P) (916) 966-1338
(F) (916) 966-1363
WWW.LEABRAZE.COM

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

DETAILS

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	

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 NEGLIGENCE TO EXAMINE, OR FAILURE TO DISCOVER, CONDITIONS WHICH AFFECT HIS/HER WORK.
3. LEA AND BRAZE ENGINEERING, INC. EXPRESSLY RESERVES ITS COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS IN THESE PLANS. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO A THIRD PARTY WITHOUT FIRST OBTAINING THE WRITTEN PERMISSION AND CONSENT OF LEA AND BRAZE ENGINEERING, INC. IN THE EVENT OF UNAUTHORIZED REUSE OF THESE PLANS BY A THIRD PARTY, THE THIRD PARTY SHALL HOLD HARMLESS LEA AND BRAZE ENGINEERING, INC.
4. CONSTRUCTION IS ALWAYS LESS THAN PERFECT SINCE PROJECTS REQUIRE THE COORDINATION AND INSTALLATION OF MANY INDIVIDUAL COMPONENTS BY VARIOUS CONSTRUCTION INDUSTRY TRADES. THESE DOCUMENTS CANNOT PORTRAY ALL COMPONENTS OR ASSEMBLIES EXACTLY. IT IS THE INTENTION OF THESE ENGINEERING DOCUMENTS THAT THEY REPRESENT A REASONABLE STANDARD OF CARE IN THEIR CONTENT. IT IS ALSO PRESUMED BY THESE DOCUMENTS THAT CONSTRUCTION REVIEW SERVICES WILL BE PROVIDED BY THE ENGINEER. SHOULD THE OWNER NOT RETAIN THE ENGINEER TO PROVIDE SUCH SERVICES, OR SHOULD HE/SHE RETAIN THE ENGINEER TO PROVIDE ONLY PARTIAL OR LIMITED SERVICES, THEN IT SHALL BE THE OWNER'S AND CONTRACTOR'S RESPONSIBILITY TO FULLY RECOGNIZE AND PROVIDE THAT STANDARD OF CARE.
5. IF THE OWNER OR CONTRACTOR OBSERVES OR OTHERWISE BECOMES AWARE OF ANY FAULT OR DEFECT IN THE PROJECT OR NONCONFORMANCE WITH THE CONTRACT DOCUMENTS, PROMPT WRITTEN NOTICE THEREOF SHALL BE GIVEN BY THE OWNER AND/OR CONTRACTOR TO THE ENGINEER.
6. THE ENGINEER SHALL NOT HAVE CONTROL OF OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

SITE PROTECTION

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

EXISTING CONDITIONS:

- 1. EXISTING TOPOGRAPHIC SURVEY PERFORMED BY LEA & BRAZE ENGINEERING INC. SURVEYING ON 01-06-16 (JOB #2151288), GRADES ENCOUNTERED ON-SITE MAY VARY FROM THOSE SHOWN. CONTRACTOR SHALL REVIEW THE PLANS AND CONDUCT FIELD INVESTIGATIONS AS REQUIRED TO VERIFY EXISTING CONDITIONS AT THE PROJECT SITE.
2. CLIENT SHALL HOLD HARMLESS LEA & BRAZE ENGINEERING FROM ANY AND ALL OCCURRENCES RESULTING FROM THE ACCURACY/INACCURACY OF THE CLIENT SUPPLIED TOPOGRAPHIC AND BOUNDARY SURVEY (AS PREPARED BY OTHERS).

SURVEYOR'S NOTES:

THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS 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. 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.
3. 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.
4. ANY GRADE CHANGES GREATER THAN 6" WITHIN THE DRIPLINE OF EXISTING TREES SHALL NOT BE MADE WITHOUT FIRST CONSULTING THE LANDSCAPE ARCHITECT / CIVIL ENGINEER.
5. PROTECT EXISTING TREES TO REMAIN FROM SPILLED CHEMICALS, FUEL OIL, MOTOR OIL, GASOLINE AND ALL OTHER CHEMICALLY INJURIOUS MATERIALS; AS WELL AS FROM FUZZLING AND 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.
6. 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.
7. 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. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH DISPOSAL OF MATERIALS.
6. BACKFILL ALL DEPRESSIONS AND TRENCHES FROM DEMOLITION OF FOUNDATIONS & UTILITIES TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
7. WITHIN LIMITS OF WORK, REMOVE CURBS, GUTTERS, LANDSCAPING, SIGNAGE, TREES, SCRUBS, ASPHALT, UNDERGROUND PIPES, ETC. AS INDICATED ON THE PLANS AND SPECIFICATIONS.
8. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
9. PRIOR TO BEGINNING DEMOLITION WORK ACTIVITIES, CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES OUTLINED IN THE EROSION PLAN & DETAILS.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING ALL DEMOLITION MATERIALS, OR STORING SELECTED ITEMS BY OWNER'S REPRESENTATIVE AT DESIGNATED LOCATIONS.
11. 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.
12. 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. 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.
13. 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.
14. ALL MATERIALS TO BE DEMOLISHED AND REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LAWFULLY DISPOSED OF OFF-SITE.
15. 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.
16. 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.
17. 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.
18. 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 SWEEPED 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 10:00 AM AND 5:00 PM. WATERING SHALL BE PERFORMED 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 SWEEP 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 SWEEP 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 PERMITTEE 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 TARP/AULINS OR OTHER EFFECTIVE COVERS.

GRADING & DRAINAGE NOTES:

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

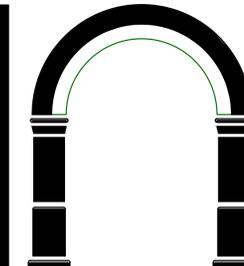


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IMPROVEMENT PLANS
LIFEMOVES MAPLE STREET SHELTER
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SAN MATEO COUNTY
APN: 052-532-020

NOTES

Table with 2 columns: REVISIONS, BY. Includes fields for JOB NO: 2151287, DATE: 06-17-16, SCALE: NTS, DESIGN BY: MH, DRAWN BY: WM, SHEET NO: C-7.0



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PROJECT

LifeMoves Maple Street
Shelter
1580 Maple Street
Redwood City CA 94063

SHEET TITLE

Lighting Plan

REVISIONS

No.	Date	Notes
1	6.17.16	BLDG SUBMITTAL 1

JOB: 2015.2801

DATE: 06/17/16

SHEET: E2.2

3 KEYED NOTES

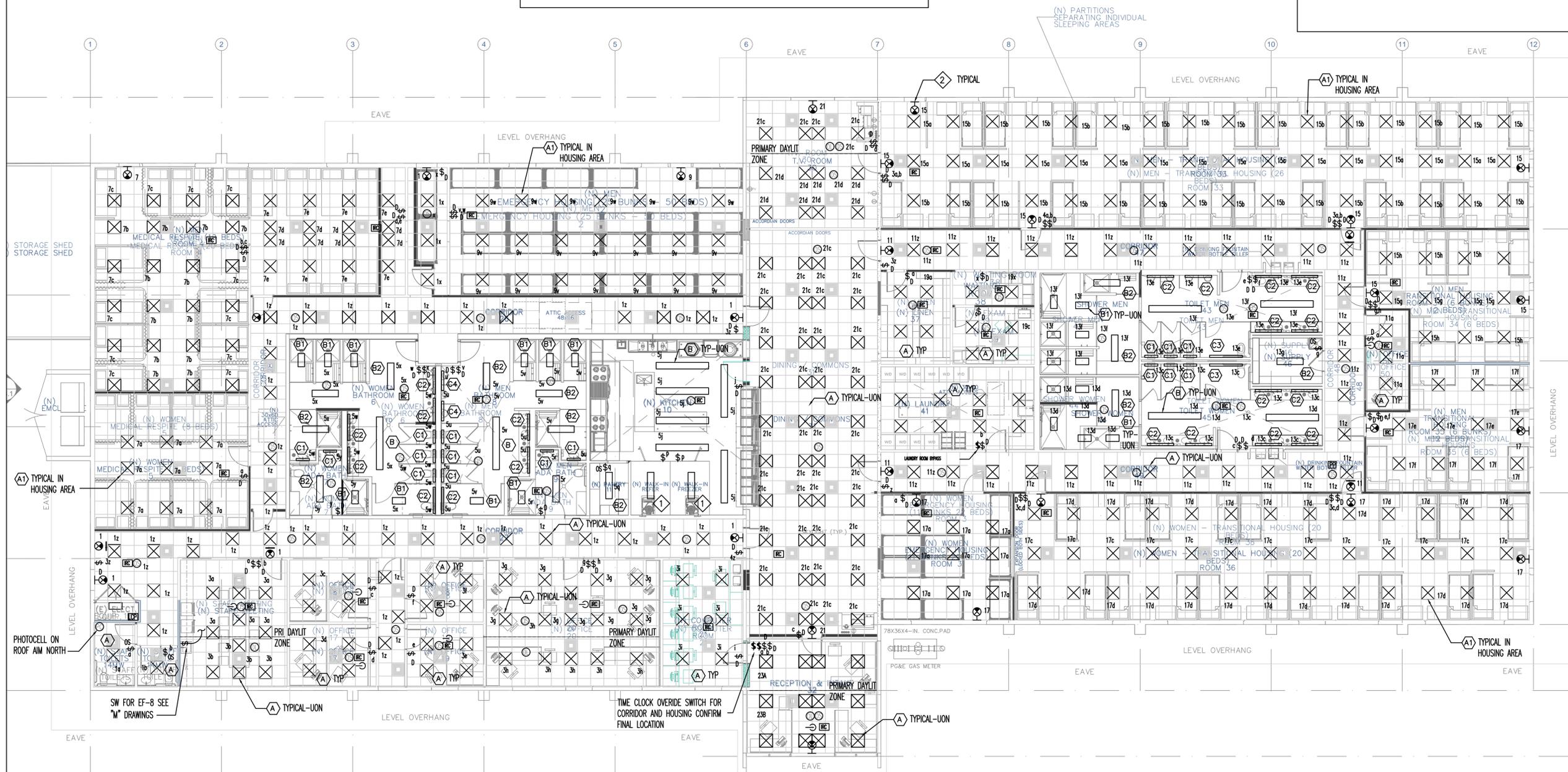
- 1 LIGHTS PROVIDED WITH COOLER/FREEZER BOX, COORDINATED WITH BOX MANUFACTURER.
- 2 CONNECT EXT/EMERGENCY LIGHT AHEAD OF SWITCH LEG.
- 3 ALL BUILDING EXTERIOR LIGHTING "CONDUIT" TO BE RUN WITHIN BUILDING WALLS, ABOVE SUSPENDED CEILING. WHERE NOT CONCEALABLE WITHIN SPACE, ATTACH TO WALLS AND PAINT OUT, AS HIGH AS POSSIBLE. ANY EXPOSED CONDUIT MUST BE APPROVED IN ADVANCE OF INSTALLATION BY ARCHITECT.

2 SHEET NOTES

- 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 (1 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

- NOTE:
- 1 INTEGRATED ROOM CONTROLLER (IRC) LEVTON# MZD20-102.
 - 2 LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR OSC10-MOW.
 - 3 LOW VOLTAGE CEILING PHOTO SENSOR #0DCOP-OOW.
 - 4 4 BUTTON IRC CONTROL SWITCH LEVTON #RLVSW-4LW OR EQUAL.
 - 5 WALLBOX OCCUPANCY SENSOR SINGLE RELAY LEVTON #0DS15-TDW OR EQUAL.
 - 6 2 BUTTON OVERRIDE CONTROL SWITCH LEVTON #LVS-2LW
 - 7 POWER PACK/RELAY FOR LV OCCUPANCY SENSOR OPP20-0D2.
 - 8 8 CIRCUIT RELAY PANEL LEVTON RB008-L08.
 - 9 PLUG LOAD CONTROL REQUIRES 1 OPP20-0D1 POWER PACK PER CIRCUIT PER SPACE

HOUSING/BED AREAS ARE NOT INCLUDED IN THE T24 CALCULATIONS. THESE AREAS ARE WITH 90 CRI LED LAMPS



Lighting Plan

1/8" = 1'-0"



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										MAIN		MOUNTING	
		TYPE: BOLT-ON BUS: 100 AMPS										<input checked="" type="checkbox"/> LUGS ONLY		<input type="checkbox"/> SURFACE	
		MINIMUM CB INTERRUPTING CAPACITY: 10,000 SYM AMPS										<input type="checkbox"/> CB		<input checked="" type="checkbox"/> FLUSH	
CKT NO	LOAD DESCRIPTION AND LOCATION	L T G	R E C	BRKR	PHASE KVA LOAD			L C L	BRKR	R E C	L T G	LOAD DESCRIPTION AND LOCATION	CKT NO		
					A	B	C								
1	LTS-CORRIDOR			1 20	1.1	1.3			1 20	7	REC-EXAM ROOM OFFICE #50	2			
3	LTS-STAFF OFFICE			1 20		1.7	1.0		1 20	4	REC-DINETV	4			
5	LTS-BATHROOM KITCHEN			1 20			1.2	1.0	1 20	5	REC-DINETV	6			
7	LTS-RECEPTION			1 20	1.4	1.0			1 20	5	REC-DINETV	8			
9	LTS-EMERGENCY HOUSING			1 20		0.6	1.0		1 20	4	REC-DINETV	10			
11	LTS-CORRIDOR EAST			1 20			0.9	0.7	1 20	4	REC-RECEPTION	12			
13	LTS-WOMEN'S/MEN'S EAST			1 20	1.0	0.7			1 20	4	REC-COMPUTERIT	14			
15	LTS-MENS TRANSITIONAL			1 20		1.8	0.7		1 20	4	REC-COMPUTERIT	16			
17	LTS-WOMEN'S TRANSITIONAL			1 20			1.8	0.9	1 20	5	REC-OFFICE 20	18			
19	LTS-LAUNDRY/INLAVEXAM			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 20		SPARE	26			
27	STEAMTABLE			2 20		1.5			1 20		SPARE	28			
29	SPARE			1 20			1.5		1 20		SPARE	30			
31	STEAMTABLE			2 20	1.5				1 20		SPARE	32			
33	SPARE			1 20		1.5	1.0		1 20		REFRIG DOOR HTR/FAN COIL	34			
35	STEAMTABLE			2 20		1.5	1.2		2 20		REFRIG COND UNIT	36			
37	SPARE			1 20	1.5	1.2			2 20		REFRIG COND UNIT	38			
39	STEAMTABLE			2 20			1.5	1.2	2 20		REFRIG COND UNIT	40			
41	SPARE			1 20					1 20		SPARE	42			
SUB TOTALS					12.2	15.8	14.9		CONNECTED KVA PER PHASE						
ISOLATED GROUND BUS					102	132	124		CONNECTED AMPS PER PHASE						
200% RATED NEUTRAL					TOTAL CONNECTED LOAD 42.9 KVA+I 3.5 (LCL) KVA x 25% = 46.4 KVA= 71 AMPS										

PANEL EMX		120/208 VOLTS, 3 PHASE, 4 WIRE & GROUND										MAIN		MOUNTING	
		TYPE: BOLT-ON BUS: 225 AMPS										<input checked="" type="checkbox"/> LUGS ONLY		<input type="checkbox"/> SURFACE	
		MINIMUM CB INTERRUPTING CAPACITY: 10,000 SYM AMPS										<input type="checkbox"/> CB		<input checked="" type="checkbox"/> FLUSH	
CKT NO	LOAD DESCRIPTION AND LOCATION	L T G	R E C	BRKR	PHASE KVA LOAD			L C L	BRKR	R E C	L T G	LOAD DESCRIPTION AND LOCATION	CKT NO		
					A	B	C								
1	LTS-EXTERIOR			1 20	0.6	0.3			1 20	2	LTS-PARKING	2			
3	LTS-BOLLARDS			1 20		0.7	0.3		1 20		SPARE	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	SPARE			1 20					1 20		SPARE	20			
21	PANEL EM			3 100	12.6		13.7		1 20		SPARE	22			
23	SPARE			1 20			15.8		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			
SUB TOTALS					13.5	14.7	16.9		CONNECTED KVA PER PHASE						
ISOLATED GROUND BUS					113	123	141		CONNECTED AMPS PER PHASE						
200% RATED NEUTRAL					TOTAL CONNECTED LOAD 45.1 KVA+I 0.0 (LCL) KVA x 25% = 45.1 KVA= 125 AMPS										

PANEL K		120/208 VOLTS, 3 PHASE, 4 WIRE & GROUND										MAIN		MOUNTING	
		TYPE: BOLT-ON BUS: 225 AMPS										<input checked="" type="checkbox"/> LUGS ONLY		<input type="checkbox"/> SURFACE	
		MINIMUM CB INTERRUPTING CAPACITY: 10,000 SYM AMPS										<input type="checkbox"/> CB		<input checked="" type="checkbox"/> FLUSH	
CKT NO	LOAD DESCRIPTION AND LOCATION	L T G	R E C	BRKR	PHASE KVA LOAD			L C L	BRKR	R E C	L T G	LOAD DESCRIPTION AND LOCATION	CKT NO		
					A	B	C								
1	DISPOSER			2 20	1.3	1.0			1 20		REC-KITCHEN	2			
3	SPARE			1 20		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			1.0		1 20		SPARE	8			
9	REC-KITCHEN UNDER HOOD			1 20			1.0		1 20		SPARE	10			
11	SHUNT TRIP			1 20					1 20		SPARE	12			
13	REC-KITCHEN UNDER HOOD			1 20	1.0				1 20		SPARE	14			
15	SHUNT TRIP			1 20			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			1 20		SPARE	22			
23	HOOD LIGHTS			1 20			0.4		2 20		SPARE	24			
25	SPARE			1 20		0.7			1 20		SPARE	26			
27	EXH FAN EF-1			3 15		0.7		0.7	2 20		SPARE	28			
29	SPARE			1 20					2 20		SPARE	30			
31	SPARE			1 20		0.6			1 20		SPARE	32			
33	MAKE UP AIR MUA-1			3 15		0.6		0.6	1 20		SPARE	34			
35	SPARE			1 20			0.6		1 20		SPARE	36			
37	SPARE			1 20					1 20		SPARE	38			
39	DISH WASHER			3 30	3.0		3.0		1 20		SPARE	40			
41	SPARE			1 20			3.0		1 20		SPARE	42			
SUB TOTALS					7.6	9.1	7.7		CONNECTED KVA PER PHASE						
ISOLATED GROUND BUS					63	76	64		CONNECTED AMPS PER PHASE						
200% RATED NEUTRAL					TOTAL CONNECTED LOAD 24.4 KVA+I 0.0 (LCL) KVA x 25% = 24.4 KVA= 68 AMPS										

PANEL LR		120/208 VOLTS, 3 PHASE, 4 WIRE & GROUND										MAIN		MOUNTING	
		TYPE: BOLT-ON BUS: 100 AMPS										<input checked="" type="checkbox"/> LUGS ONLY		<input type="checkbox"/> SURFACE	
		MINIMUM CB INTERRUPTING CAPACITY: 10,000 SYM AMPS										<input type="checkbox"/> CB		<input checked="" type="checkbox"/> FLUSH	
CKT NO	LOAD DESCRIPTION AND LOCATION	L T G	R E C	BRKR	PHASE KVA LOAD			L C L	BRKR	R E C	L T G	LOAD DESCRIPTION AND LOCATION	CKT NO		
					A	B	C								
1	REC-LAUNDRY			1 20	1.0	1.0			1 20		REC-LAUNDRY	2			
3	REC-LAUNDRY			1 20		1.0	1.0		1 20		REC-LAUNDRY	4			
5	REC-LAUNDRY			1 20			1.0	1.0	1 20		REC-LAUNDRY	6			
7	REC-LAUNDRY			1 20	1.0	1.0			1 20		REC-LAUNDRY	8			
9	REC-LAUNDRY			1 20		1.0	1.0		1 20		REC-LAUNDRY	10			
11	REC-LAUNDRY			1 20			1.0	1.0	1 20		REC-LAUNDRY	12			
13	REC-LAUNDRY			1 20	1.0	1.0			1 20		REC-LAUNDRY	14			
15	REC-LAUNDRY			1 20			1.0	1.0	1 20		REC-LAUNDRY	16			
17	REC-LAUNDRY			1 20			1.0	0.8	1 20	4	REC-LAUNDRY ABOVE CTR	18			
19	REC-LAUNDRY			1 20	1.0	1.0			1 20		SPARE	20			
21	REC-LAUNDRY			1 20		1.0	1.0		1 20		SPARE	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			
SUB TOTALS					8.0	8.0	7.8		CONNECTED KVA PER PHASE						
ISOLATED GROUND BUS					67	67	65		CONNECTED AMPS PER PHASE						
200% RATED NEUTRAL					TOTAL CONNECTED LOAD 23.8 KVA+I 0.0 (LCL) KVA x 25% = 23.8 KVA= 66 AMPS										

PANEL P1		120/208 VOLTS, 3 PHASE, 4 WIRE & GROUND										MAIN		MOUNTING	
		TYPE: BOLT-ON BUS: 225 AMPS										<input checked="" type="checkbox"/> LUGS ONLY		<input type="checkbox"/> SURFACE	
		MINIMUM CB INTERRUPTING CAPACITY: 10,000 SYM AMPS										<input type="checkbox"/> CB		<input checked="" type="checkbox"/> FLUSH	
CKT NO	LOAD DESCRIPTION AND LOCATION	L T G	R E C	BRKR	PHASE KVA LOAD			L C L	BRKR	R E C	L T G	LOAD DESCRIPTION AND LOCATION	CKT NO		
					A	B	C								
1	REC-STAFF MTG (COFFEE)			1 20	1.5	0.5			1 20		LCP POWER	2			
3	REC-STAFF MTG (MICROWAVE)			1 20		1.5	0.5		1 20		TELEPHONE CABINET	4			
5	REC-STAFF MTG (FRIDGE)			1 20			0.8	1.2	1 20	6	REC-BATHROOM	6			
7	REC-STAFF MTG (FRIDGE)			1 20		0.8	0.8		1 20	4	REC-BATHROOM	8			
9	REC-STAFF MTG CONV			1 20			1.5	1.2	1 20	6	REC-CORRIDOR	10			
11	REC-STAFF MTG (DISPOSER)			5 120			1.0	1.0	1 20		REC-MEDICAL RESPITE 5	12			
13	REC-STAFF MTG (ABOVE CTR)			2 120	0.4	1.0			1 20		REC-MEDICAL RESPITE 5	14			
15	REC-DW			1 20		1.0	1.0		1 20		REC-MEDICAL RESPITE 4	16			
17	REC-TOILETS			2 120			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			4 120			0.7	0.6	1 20		EXH FAN EF-2	30			
31	REC-EXTERIOR			2 120	0.4				1 20		SPARE	32			
33	REC-EXTERIOR			2 120		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	3			

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
 CEC-NRCC-LTI-03-E (Revised 05/15)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Certificate of Compliance - Indoor Lighting Power Allowance
 Project Name: LifeMoves Maple St Date Prepared: 6/12/2016

NRCC-LTI-03-E
 (Page 2 of 4)

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 PER (ft ²)	AREA (ft ²)	ALLOWED WATTS
Location in Building	Primary Function Area per Table 140.6-C			
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

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance May 2015

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
 CEC-NRCC-LTI-03-E (Revised 05/15)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Certificate of Compliance - Indoor Lighting Power Allowance
 Project Name: LifeMoves Maple St Date Prepared: 6/12/2016

NRCC-LTI-03-E
 (Page 2 of 4)

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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 PER (ft ²)	AREA (ft ²)	ALLOWED WATTS
Location in Building	Primary Function Area per Table 140.6-C			
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

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance May 2015

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
 CEC-NRCC-LTI-03-E (Revised 05/15)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Certificate of Compliance - Indoor Lighting Power Allowance
 Project Name: LifeMoves Maple St Date Prepared: 6/12/2016

NRCC-LTI-03-E
 (Page 3 of 4)

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 CONDITIONED spaces UNCONDITIONED spaces

C-3 AREA CATEGORY METHOD ADDITIONAL LIGHTING WATTAGE ALLOWANCE (from Table 140.6-C Footnotes)

A	B	C	D	E	F	G
Primary Function	Sq Ft or linear ft ²	Additional Watts Allowed	Wattage Allowance (B x C)	Description(s) and Quantity of Special Luminaire Types in each Primary Function Area	Total Design Watts ¹	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.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance May 2015

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
 CEC-NRCC-LTI-03-E (Revised 05/15)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Certificate of Compliance - Indoor Lighting Power Allowance
 Project Name: LifeMoves Maple St Date Prepared: 6/12/2016

NRCC-LTI-03-E
 (Page 4 of 4)

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Tantech Engineers
 Signature Date: 6/12/2016
 Address: 1431 CEDAR ST
 City/State/Zip: SAN CARLOS, CA 94070

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
 Signature Date: 6/12/2016
 Address: 1431 CEDAR ST
 City/State/Zip: SAN CARLOS, CA 94070

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance May 2015

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 CEC-NRCC-LTO-01-E (Revised 05/15)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Outdoor Lighting
 Project Name: LifeMoves Maple St Date Prepared: 6/12/2016

NRCC-LTO-01-E
 (Page 1 of 4)

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.)
 NRCC-LTO-01-E - Must be submitted for all buildings Field Inspector
 NRCC-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

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance May 2015

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 CEC-NRCC-LTO-01-E (Revised 05/15)
 CALIFORNIA ENERGY COMMISSION

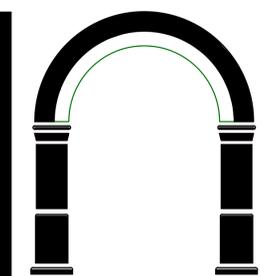
CERTIFICATE OF COMPLIANCE
 Outdoor Lighting
 Project Name: LifeMoves Maple St Date Prepared: 6/12/2016

NRCC-LTO-01-E
 (Page 3 of 4)

A. OUTDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

A	B	C	D		E	F	G	H	I
			Watts per Luminaire	How wattage was determined					
X1	30w LED	30.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15	450	Building Facade	<input type="checkbox"/>	<input type="checkbox"/>
X2	26 LED	26.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6	156	Building Facade	<input type="checkbox"/>	<input type="checkbox"/>
S2	2- 55w LED	110.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2	220	Automotive Hardscape	<input type="checkbox"/>	<input type="checkbox"/>
S1/S1A	55w LED	55.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7	385	Automotive Hardscape	<input type="checkbox"/>	<input type="checkbox"/>
S3	41w LED	41.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17	697	Automotive Hardscape	<input type="checkbox"/>	<input type="checkbox"/>
S4	10W LED	10.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3	30	Automotive Hardscape	<input type="checkbox"/>	<input type="checkbox"/>
S5	10W LED	10.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3	30	Automotive Hardscape	<input type="checkbox"/>	<input type="checkbox"/>
INSTALLED WATTS PAGE TOTAL:							1,968	Enter sum total of all pages: (Sum Total INSTALLED Outdoor lighting wattage) into NRCC-LTO-01-E, Page 1	

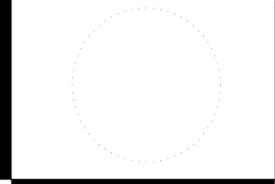
CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2013



CJW 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.C. 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

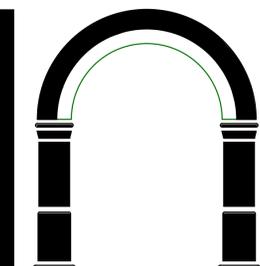
REVISIONS

No.	Date	Notes
	6.17.16	BLDG SUBMITTAL 1

JOB: 2015.2801

DATE: 06/17/16

SHEET: E4.3



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 •

SITE ELECTRICAL PLAN

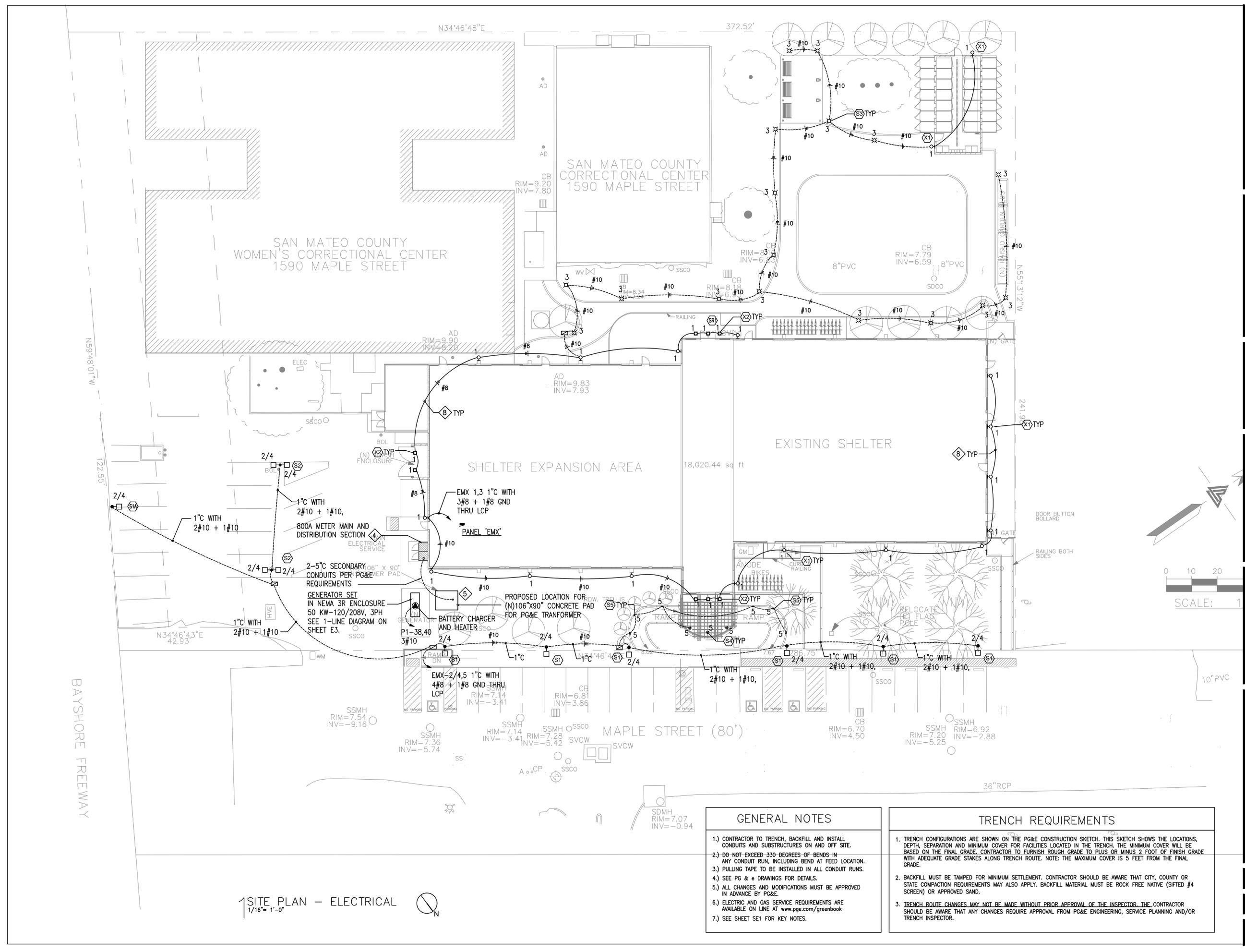
• REVISIONS •

No.	Date	Notes
	6.17.16	BLDG SUBMITTAL 1

• JOB: 2015.2801

• DATE: 06/17/16

• SHEET: SE2



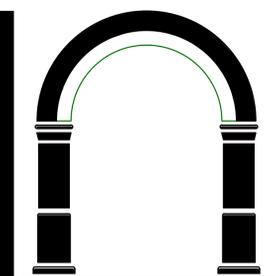
SITE PLAN - ELECTRICAL
 1/16" = 1'-0"

GENERAL NOTES

- 1.) CONTRACTOR TO TRENCH, BACKFILL AND INSTALL CONDUITS AND SUBSTRUCTURES ON AND OFF SITE.
- 2.) DO NOT EXCEED 330 DEGREES OF BENDS IN ANY CONDUIT RUN, INCLUDING BEND AT FEED LOCATION.
- 3.) PULLING TAPE TO BE INSTALLED IN ALL CONDUIT RUNS.
- 4.) SEE PG & E DRAWINGS FOR DETAILS.
- 5.) ALL CHANGES AND MODIFICATIONS MUST BE APPROVED IN ADVANCE BY PG&E.
- 6.) ELECTRIC AND GAS SERVICE REQUIREMENTS ARE AVAILABLE ON LINE AT www.pge.com/greenbook
- 7.) SEE SHEET SE1 FOR KEY NOTES.

TRENCH REQUIREMENTS

1. TRENCH CONFIGURATIONS ARE SHOWN ON THE PG&E CONSTRUCTION SKETCH. THIS SKETCH SHOWS THE LOCATIONS, DEPTH, SEPARATION AND MINIMUM COVER FOR FACILITIES LOCATED IN THE TRENCH. THE MINIMUM COVER WILL BE BASED ON THE FINAL GRADE. CONTRACTOR TO FURNISH ROUGH GRADE TO PLUS OR MINUS 2 FOOT OF FINISH GRADE WITH ADEQUATE GRADE STAKES ALONG TRENCH ROUTE. NOTE: THE MAXIMUM COVER IS 5 FEET FROM THE FINAL GRADE.
2. BACKFILL MUST BE TAMPED FOR MINIMUM SETTLEMENT. CONTRACTOR SHOULD BE AWARE THAT CITY, COUNTY OR STATE COMPACTION REQUIREMENTS MAY ALSO APPLY. BACKFILL MATERIAL MUST BE ROCK FREE NATIVE (SIFTED #4 SCREEN) OR APPROVED SAND.
3. TRENCH ROUTE CHANGES MAY NOT BE MADE WITHOUT PRIOR APPROVAL OF THE INSPECTOR. THE CONTRACTOR SHOULD BE AWARE THAT ANY CHANGES REQUIRE APPROVAL FROM PG&E ENGINEERING, SERVICE PLANNING AND/OR TRENCH INSPECTOR.



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• PROJECT •

LifeMoves Maple Street
 Shelter
 1580 Maple Street
 Redwood City CA 94063

• SHEET TITLE •

**ELECTRICAL SITE
 PHOTOMETRIC
 PLAN**

• REVISIONS •

No.	Date	Notes
1	6.17.16	BLDG SUBMITTAL 1

• JOB: 2015.2801

• DATE: 06/17/16

• SHEET: SE3

• JOB: 2015.2801

• DATE: 06/17/16

• SHEET: SE3

• JOB: 2015.2801

• DATE: 06/17/16

• SHEET: SE3

• JOB: 2015.2801

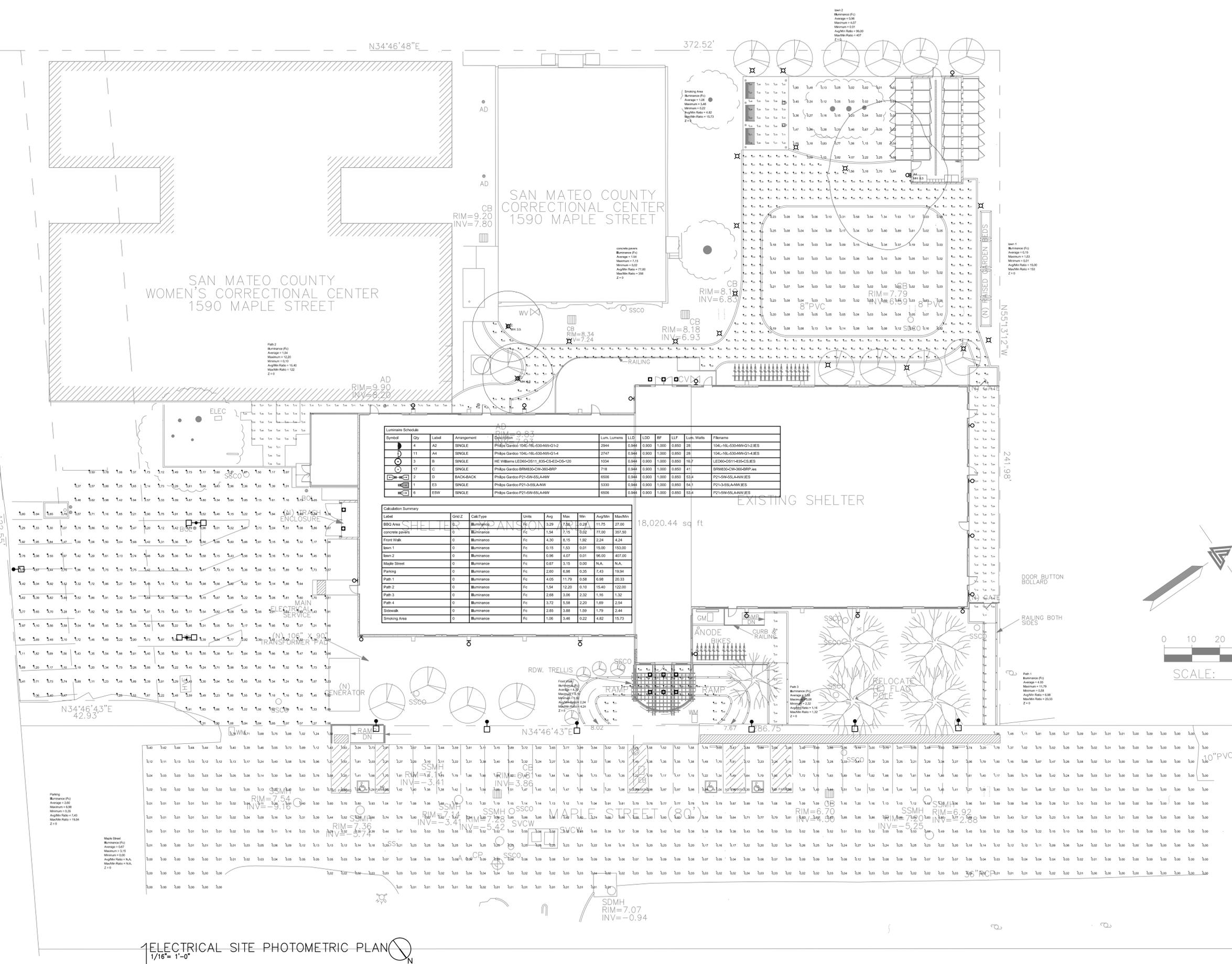
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• SHEET: SE3

• JOB: 2015.2801

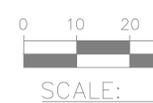
• DATE: 06/17/16

• SHEET: SE3



Symbol	Qty	Label	Arrangement	Description	Lum. Lumens	LDD	LDD BF	LLF	Lufts. Watts	Filename
A2	4	A2	SINGLE	Philips Gardco 104L-HL-S50-NW-G1-2	2944	0.944	0.900	1.000	0.850	28
A4	11	A4	SINGLE	Philips Gardco 104L-HL-S50-NW-G1-4	2747	0.944	0.900	1.000	0.850	28
B	3	B	SINGLE	HE Williams LED60-0S11-B35-CS-ED-0S-120	1034	0.944	0.900	1.000	0.850	167
C	17	C	SINGLE	Philips Gardco BRM30-CW-360-BRP	718	0.944	0.900	1.000	0.850	41
D	2	D	BACK-2-BACK	Philips Gardco P21-SW-S5LA-NW	6506	0.944	0.900	1.000	0.850	534
E3	1	E3	SINGLE	Philips Gardco P21-S68LA-NW	5330	0.944	0.900	1.000	0.850	541
E5W	6	E5W	SINGLE	Philips Gardco P21-SW-S5LA-NW	6506	0.944	0.900	1.000	0.850	534

Layer	Area	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
SSCO Area	7.90	Mumance	Fc	3.29	7.36	2.27	11.75	27.90
concrete panels	0	Mumance	Fc	2.54	3.15	3.02	77.00	357.00
Front Walk	0	Mumance	Fc	4.30	6.15	1.92	2.24	4.24
Room 1	0	Mumance	Fc	0.15	1.23	0.01	15.00	153.00
Room 2	0	Mumance	Fc	0.96	4.07	0.01	96.00	407.00
Maple Street	0	Mumance	Fc	0.87	3.15	0.00	N.A.	N.A.
Parking	0	Mumance	Fc	2.60	6.98	0.35	7.43	19.94
Path 1	0	Mumance	Fc	4.05	11.79	0.58	6.98	20.33
Path 2	0	Mumance	Fc	1.04	12.20	0.10	15.40	122.00
Path 3	0	Mumance	Fc	2.68	3.06	2.32	1.16	1.32
Path 4	0	Mumance	Fc	3.72	5.58	2.20	1.69	2.54
Showak	0	Mumance	Fc	2.85	3.88	1.09	1.79	2.44
Smoking Area	0	Mumance	Fc	1.06	3.46	0.22	4.82	15.73



ELECTRICAL SITE PHOTOMETRIC PLAN
 1/16" = 1'-0"

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 CROWNS 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	16. CONTINUOUS HEADER TO STUD 17. CEILING JOISTS, LAPS OR PARTINGS. (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)
2. BRIDGING TO JOIST	2-8d COMMON (2 1/2"x0.131") 2-3"x0.131" NAILS @ 6" O.C. 2-3" 14 GA STAPLES	TOE NAIL EACH END	18. CEILING JOISTS TO PARALLEL PARTINGS. (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)
3. 1"x6" SUBFLOOR OR LESS TO EACH JOIST	2-8d COMMON (2 1/2"x0.131")	FACE NAIL	19. RAFTER TO PLATE (SEE SECTION 2308.10.1, TABLE 2308.10.1)
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	20. 1" DIAGONAL BRACE TO EACH STUD PLATE
6. SOLE PLATE TO JOIST OR BLOORING	16d COMMON (3 1/2"x0.131") AT 16" O.C. 3"x0.131" NAILS AT 6" O.C. 3" 14 GA STAPLES AT 12" O.C.	TYPICAL FACE NAIL	21. 1"x6" SHEATHING TO EACH BEARING
SOLE PLATE TO JOIST OR BLOORING 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	22. WIDER THAN 1"x6" SHEATHING TO EACH BEARING
7. TOP PLATE TO STUD	2-16d COMMON (3 1/2"x0.162") 3-3"x0.131" NAILS #8 screw each side of metal stud	END NAIL	23. BUILT-UP CORNER STUDS
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 of metal studs	TOE NAIL	24. BUILT-UP GIRDER AND BEAMS
DOUBLE STUDS	16d COMMON (3 1/2"x0.131") @ 24" O.C. 3"x0.131" NAILS @ 6" O.C. 3" 14 GA STAPLES @ 8" O.C.	FACE NAIL	25. 2" PLANS
10. DOUBLE TOP PLATES	16d COMMON (3 1/2"x0.131") AT 16" O.C. 3"x0.131" NAILS AT 12" O.C. 3" 14 GA STAPLES AT 12" O.C.	TYPICAL FACE NAIL	26. COLLAR TIE TO RAFTER
DOUBLE TOP PLATES	8-16d COMMON (3 1/2"x0.162") 12-3"x0.131" NAILS 12-3" 14 GA STAPLES	LAP SPLICE	27. JACK RAFTER TO HIP
11. BLOORING 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. RM 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 (3 1/2"x0.162")	TOE NAIL	
15. CEILING JOISTS TO PLATE	3-8d COMMON (2 1/2"x0.131") 3-3"x0.131" NAILS 3-3" 14 GA STAPLES	TOE NAIL	
16. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2"x0.131")	TOE NAIL	

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

ABBREVIATIONS

A.B.	ANCHOR BOLT
B.N.	BOUNDARY NAILING
BM	BEAM
BLG	BLOCK
BLKGBLOCKING	BLKGBLOCKING
C.J.	CONSTRUCTION JOINT
CONC/CONCRETE	CONC/CONCRETE
CONT/CONTINUOUS	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
SO.	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 HOLD-DOWNS OF THE SEISMIC FORCE RESISTING SYSTEM WHERE CBC 1707.3
 - i. 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 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 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. COUSUM-16-001, ISSUE DATE MAY, 4 2016 DESIGN CRITERIA CONVENTIONAL FOUNDATION SOIL BEARING CAPACITY 2600 PSF CONT. FTG STARTING 18" DOWN.
2. SLABS SHALL BE SUPPORTED ON UNIFORM SUBGRADE MATERIAL - MOISTURE CONDITIONED. PROVIDE 4" FREE DRAINING GRAVEL BENEATH SLABS.

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 PARTIAL 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 - ROBOGRO 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 FIR 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 2103.1.3 & 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 9-90 GALVANIZING ON ALL METAL STUDS AND TRACKS
- ICC NUMBERS FOR STUDS SHALL BE ER 4943 OR ES 4782 OR APPROVED EQUAL

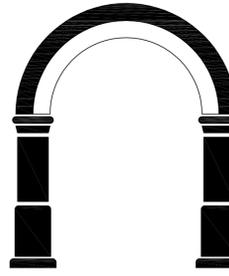
AT BATHROOM, KITCHEN AND SHOWER AREAS USE STAINLESS STEEL STUDS AND TRACKS

HAT CHANNELS AT CONCRETE WALL FURRING SHALL BE 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.

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 CATAGDRY = F	ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE PROCEDURE	
I = 1.00 LESS THAN 300 OCCUPANTS R = 4 F _a = 1 F _v = 1.5 S _s = 1.615 S _d s = 1.077 S _d 1 = 0.742	SEISMIC FORCE RESISTING SYSTEM CONCRETE SHEAR WALLS	
SITE CLASS = D OR E V = $\frac{SDS \times W}{R7}$ V = 0.192 W WORKING STRESS		
WIND LOAD = 110 MPH, EXP. C, λ =1.00		

ROOF MATERIAL WEIGHT SHALL NOT EXCEED 5 PSF INSTALLED



CJW ARCHITECTURE

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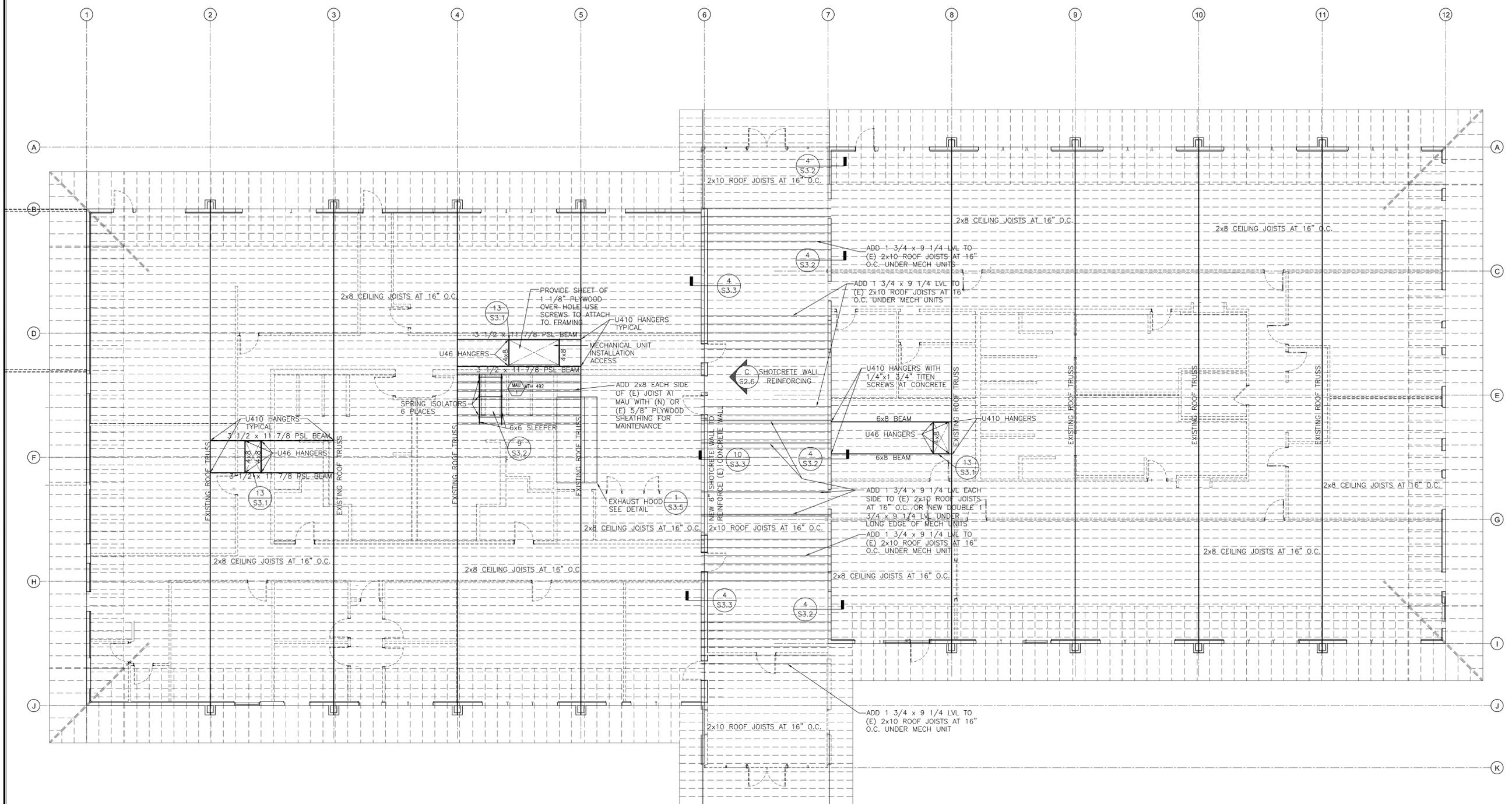
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INT WALL STUDS: 362S162-43 (33 KSI)
 & 550S162-43 (50 KSI) @ 16" O.C. U.N.O. SEE ARCHITECTURAL DRAWINGS FOR SIZES AND LOCATIONS
 TRACKS 362T150-43 & 550T150-43
 PROVIDE STAINLESS STEEL STUDS AND TRACKS AT KITCHEN AND BATHROOM AND SHOWER AREAS
 SEE ARCHIT DRAWINGS FOR ADDITIONAL INFORMATION
 SEE DRAWING S3.1 FOR TYPICAL STUD DETAILS

CEILING FRAMING NOTES

CEILING JOISTS USE:	15
600S162-33 AT 16" O.C. FOR SPANS UP TO 15'-0"	S3.1
600S162-43 AT 16" O.C. FOR SPANS UP TO 18'-0"	16
800S162-43 AT 16" O.C. FOR SPANS UP TO 24'-0"	S3.1

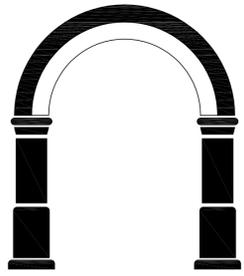


REFER TO DRAWINGS S2.6, S2.7 & A2.7 FOR CONCRETE PANEL MODIFICATION FOR NEW WINDOWS AND DOORS

REFER TO DRAWINGS SHEET S2.4 FOR SEISMIC RETROFIT PLAN

REFER TO DRAWINGS S3.2 & S3.5 FOR MECHANICAL UNIT & EXHAUST HOOD MOUNTING DETAILS

A CEILING FRAMING PLAN
 SCALE: 1/8" = 1'-0"



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PROJECT
 LifeMoves Maple Street Shelter
 1580 Maple Street
 Redwood City, CA 94063

TITLE

CEILING FRAMING PLAN

SCALE: 1/8"=1'-0"

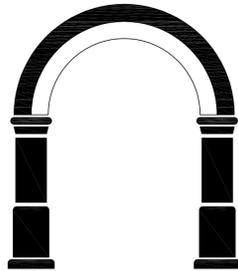
REVISIONS

No.	Date	Notes
6-17-16		BUILDING SUBMITAL 1

JOB: 2015.2801

DATE: 12/8/2015

DWG #: S2.2



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No. 15445 6/17/2016

PROJECT

LifeMoves Maple Street
Shelter
1580 Maple Street
Redwood City, CA 94063

TITLE

ROOF
FRAMING PLAN

SCALE: 1/8"=1'-0"

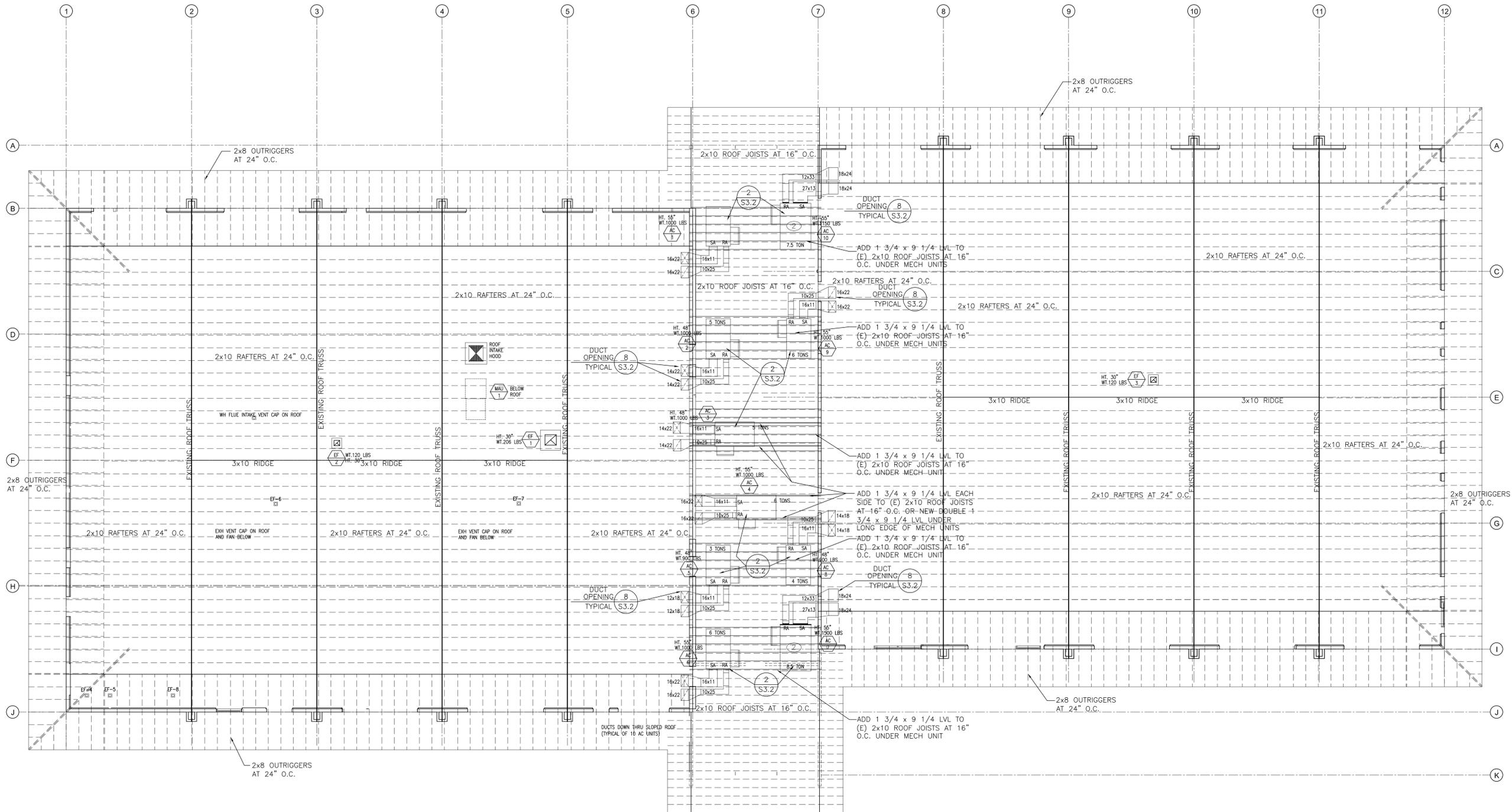
REVISIONS

No.	Date	Notes
6-17-16		BUILDING SUBMITAL 1

JOB: 2015.2801

DATE: 12/8/2015

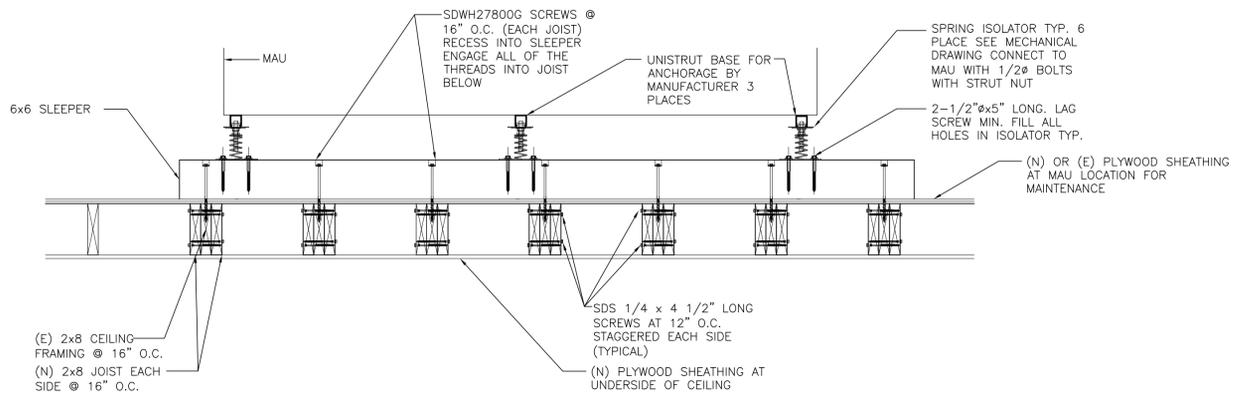
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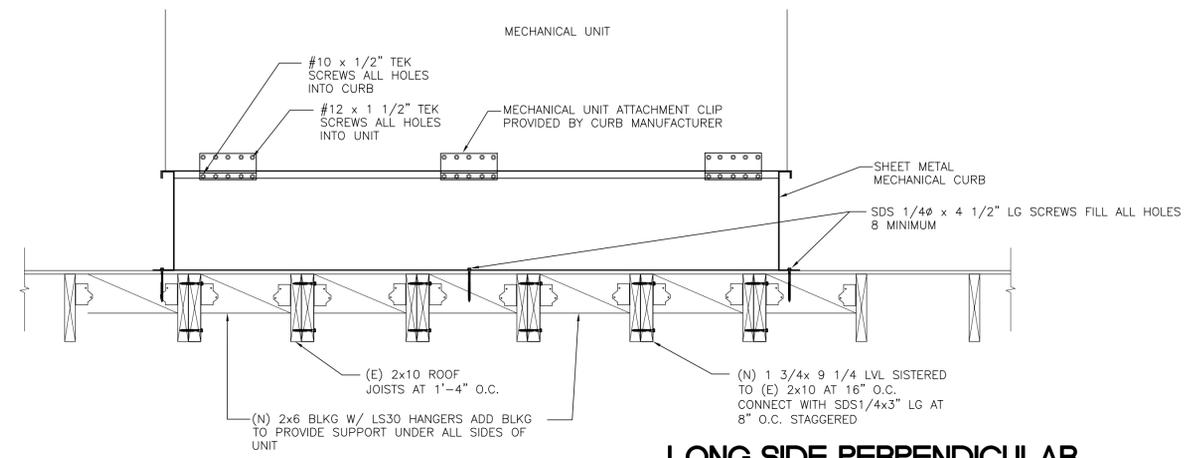
REFER TO DRAWINGS S3.2 FOR MECHANICAL UNIT MOUNTING
DETAILS AND DUCT OPENING DETAIL

REFER TO DRAWINGS SHEET S2.4 FOR SEISMIC RETROFIT PLAN

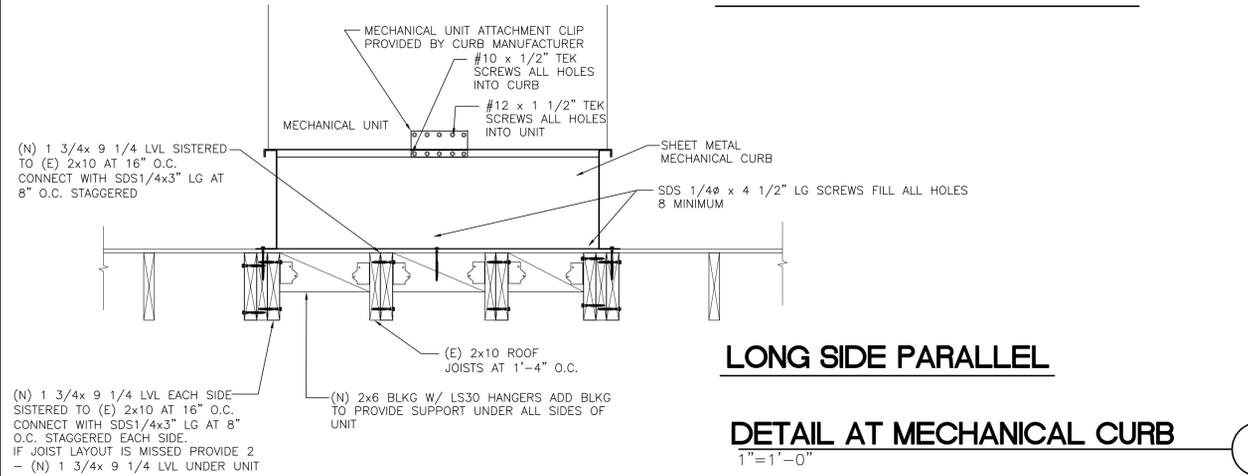
A ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"



MAU SUPPORT AND ANCHORAGE 9
1"=1'-0"



LONG SIDE PERPENDICULAR



LONG SIDE PARALLEL

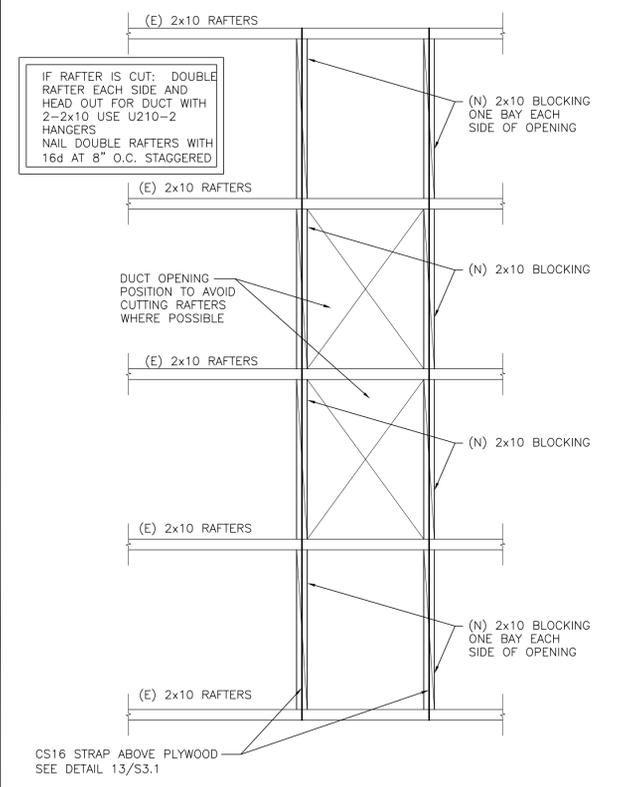
DETAIL AT MECHANICAL CURB 2
1"=1'-0"

DETAIL 14
1"=1'-0"

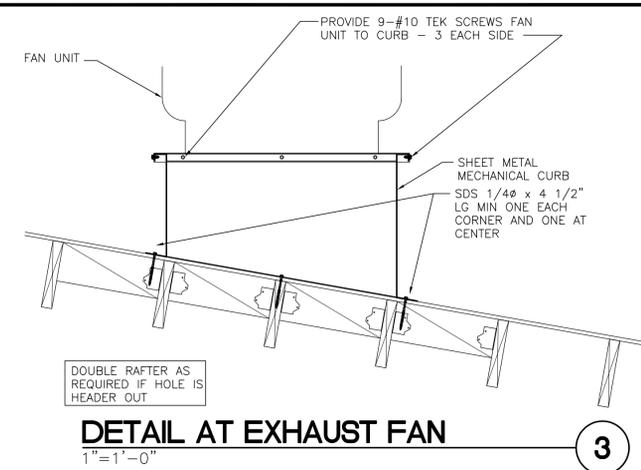
DETAIL 10
1"=1'-0"

DETAIL 15
1"=1'-0"

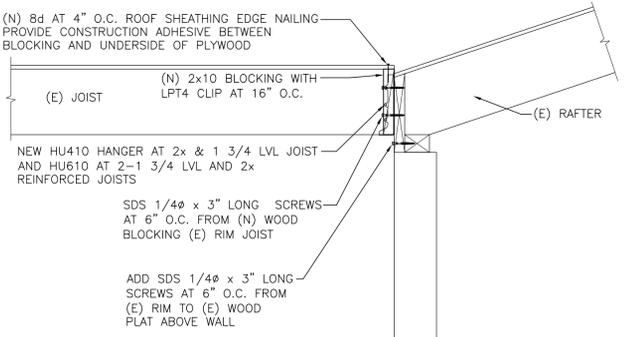
DETAIL 11
1"=1'-0"



DETAIL AT DUCT OPENING 8
1"=1'-0"



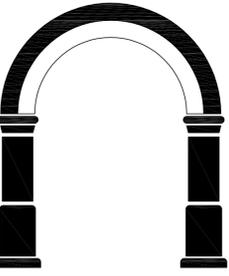
DETAIL AT EXHAUST FAN 3
1"=1'-0"



DETAIL AT LINE 7 4
1"=1'-0"

DETAIL 16
1"=1'-0"

DETAIL 12
1"=1'-0"



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No. 1b44b 6/17/2016

• 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 SUBMITAL 1	

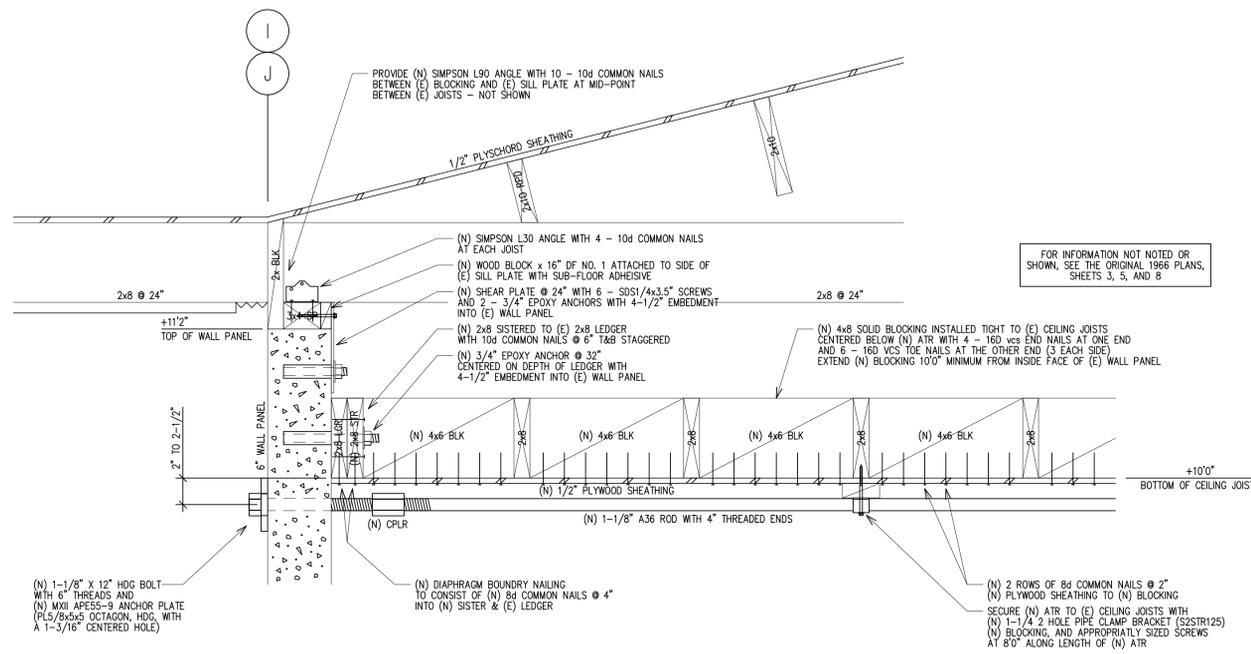
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• DATE: 12/8/2015

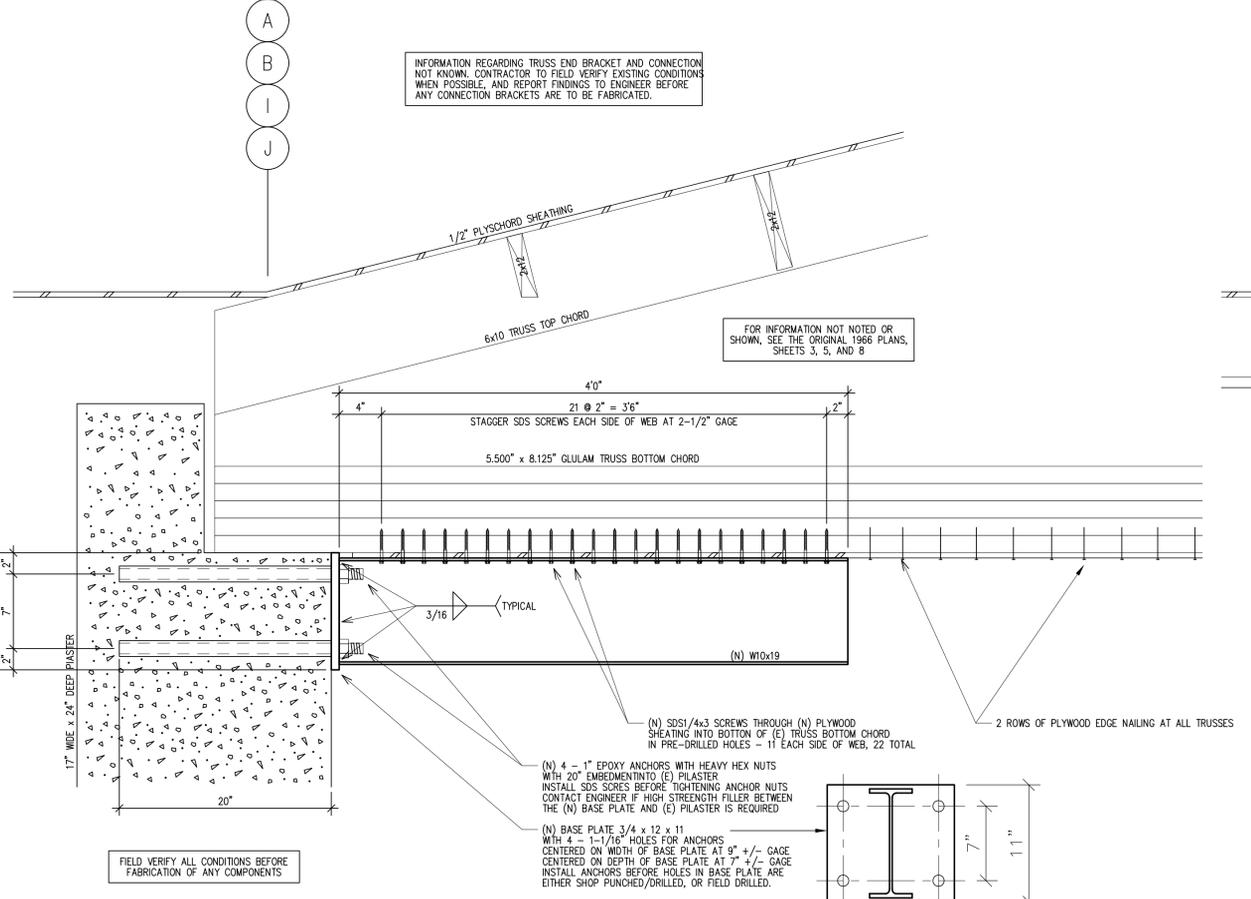
• DWG #: S3.2

STRUCTURAL NOTES

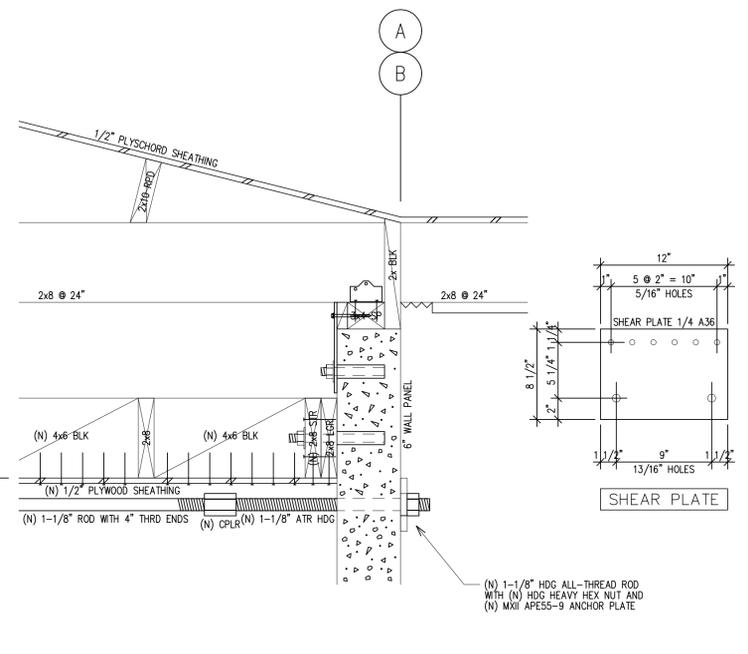
- MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE CALIFORNIA BUILDING CODE (CBC), 2013 EDITION, AND ALL LOCAL ORDINANCES.
- INFORMATION REGARDING EXISTING CONSTRUCTION IS BELIEVED TO BE CORRECT, BUT NOT GUARANTEED. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL REVIEW ALL DRAWINGS 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.
- 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.
- 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.
- ALL WORK SHALL CONFORM TO THESE NOTES AND DRAWINGS IN ALL RESPECTS. NO CHANGES SHALL BE ALLOWED WITHOUT WRITTEN AUTHORITY FROM THE ENGINEER.
- NON-SHRINK GROUT, AS CALLED FOR IN THE PLANS, SHALL BE NON-SHRINK, NON-METALLIC, FLOWABLE OR DRY PACK.
- EXPANSION ANCHORS INSTALLED IN CONCRETE - HILTI KWIK BOLT TZ ANCHORS, OR APPROVED EQUAL, AND INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S DIRECTIONS AND ICC REPORT NO. ESR-1917.
- 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.
- 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 MANUFACTURER'S RECOMMENDED CURE TIME BEFORE THE THREADED RODS MAY BE TIGHTENED OR SUBJECTED TO LOAD.
- 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.
- 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.
- THE STEEL ERECTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ERECTION BRACING AND SHORING, AS REQUIRED.
- 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.
- ALL STEEL INDICATED TO BE GALVANIZED SHALL BE HOT DIP GALVANIZED PER ASTM A123 AFTER FABRICATION, UNLESS NOTED OTHERWISE.
- 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.
- BOLTS SHALL CONFORM TO ASTM A307, UNLESS NOTED OTHERWISE. NUTS SHALL CONFORM TO ASTM A563, UNLESS NOTED OTHERWISE. ALL THREADED ROD SHALL NOT BE SUBSTITUTED FOR BOLTS.
- 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.
- ROD WITH THREADED ENDS SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE. STANDARD ALL-THREAD ROD SHALL MEET THE MINIMUM YIELD AND TENSILE STRENGTH REQUIREMENTS PER ASTM A36, UNLESS NOTED OTHERWISE.
- HIGH STRENGTH ROD SHALL CONFORM TO ASTM A193-87, 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.
- 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, 5/8" FOR 1/2" LAGS, 3/4" FOR 5/8" LAGS, 1 1/2" FOR 3/4" LAGS, 5/8" FOR 7/8" LAGS, AND 3/4" FOR 1" LAGS. ADJUST HOLE 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.
- ALL FASTENERS AND RELATED ITEMS, EXCEPT HIGH STRENGTH BOLTS, ROD, AND NUTS, SHALL BE ZINC PLATED.
- 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.
- 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 I OR II SPECIES, UNLESS SPECIFIED OTHERWISE. LAY WITH FACE PLYS PERPENDICULAR TO SUPPORTS FOR ROOFS AND FLOORS, AND STAGGER SHEETS.
- 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 I OR II SPECIES, UNLESS INDICATED OTHERWISE.
- 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.
- ALL NAILS SHALL BE "COMMON" WIRE NAILS, UNLESS NOTED OTHERWISE. GALVANIZED NAILS SHALL BE USED WHERE NAILS ARE EXPOSED TO WEATHER.
- 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).
- STANDARD JOIST HANGERS AND FRAMING CONNECTORS SHALL BE MANUFACTURED BY SIMPSON STRONG TIE AND INSTALLED FOR FULL RATED LOAD VALUES, UNLESS INDICATED OTHERWISE.
- ALL SEISMIC RETROFIT HARDWARE DESIGNATED MXXI, INCLUDING XT CROSS TIES, FLARE STRUTS, DIAPHRAGMS, PL-GLUS, AND ALL RELATED SUB-COMPONENTS, AS WELL AS ALL RELATED FASTENERS, SHALL BE MANUFACTURED AND/OR SUPPLIED BY MERCALLO XII, UNLESS INDICATED OTHERWISE. CONTACT MERCALLO XII AT (510) 654-1906 TEL, (510) 654-1994 FAX.
- 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 (OHO SEALANTS, ICB0 ER-2769), SFA 66 SUB-FLOOR & CONSTRUCTION ADHESIVE (PRATT & LAMBERT / MIRACLE ADHESIVES, ICB0 ER-2231), PL400 SUB-FLOOR CONSTRUCTION ADHESIVE (CONTECH), DAP 4000 SUB-FLOOR & PLYWOOD ADHESIVE (DAP), LOCTITE PL PREMIUM CONSTRUCTION ADHESIVE (HENKEL), AND SONNEBORN PREMIUM ADHESIVE (BASF).
- 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.
- SPECIAL INSPECTIONS, AS INTENDED BY SECTION 1701 OF THE CALIFORNIA BUILDING CODE, SHALL BE PROVIDED AS REQUIRED FOR THE FOLLOWING:
 - 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.
 - THE INSTALLATION OF ALL EXPANSION ANCHORS, UNLESS NOTED OTHERWISE.
 - THE INSTALLATION OF ALL EPOXY ANCHORS, UNLESS NOTED OTHERWISE.
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND FACILITATING ALL SPECIAL INSPECTIONS.



SECTION A
SCALE 1-1/2" = 1'0"



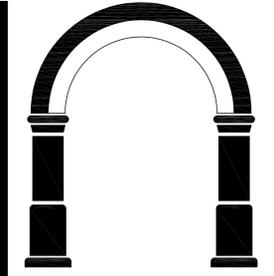
SECTION B
SCALE 1-1/2" = 1'0"



SECTION C
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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BCA J No. 15445 6/17/2016

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 SUBMITAL 1

JOB: 2015.2801
DATE: 12/8/2015
DWG #: S3.6

EXHAUST FAN SCHEDULE												
MARK	MFR.	MODEL	CFM	S.P.	RPM	MOTOR			WEIGHT LBS	SERVICE	LOCATION	REMARKS
						HP/A	Volts	PHASE				
EF-1	CAPTIVE-AIRE	SEE M3.3	3850	1.35"	1061	2HP/5.9A	208V	3PH	206	TYPE 1 HOOD H-1	ROOF	①②④⑤
EF-2	GREENHECK	GB-141-4	1300	0.5"	1009	1/4HP/5.8A	115V	1PH	85	RESTROOMS AND SHOWERS	ROOF	⑥⑦⑧⑪
EF-3	GREENHECK	GB-141-4	1300	0.5"	1009	1/4HP/5.8A	115V	1PH	85	RESTROOMS AND SHOWERS	ROOF	⑥⑦⑧⑪
EF-4	GREENHECK	SP-B150	120	0.25"		48W	115V	1PH	15	STAFF TOILET	CEILING	⑦⑨
EF-5	GREENHECK	SP-B150	120	0.25"		48W	115V	1PH	15	STAFF TOILET	CEILING	⑦⑨
EF-6	GREENHECK	SP-B150	120	0.25"		48W	115V	1PH	15	ADA WOMEN BATH 7	CEILING	⑦⑨
EF-7	GREENHECK	SP-B150	120	0.25"		48W	115V	1PH	15	ADA MEN BATH 9	CEILING	⑦⑨
EF-8	GREENHECK	CSP-A410	300	0.25"	1000	130W	115V	1PH	30	STAFF MEETING ROOM	INLINE	③⑩
DF-1 TO DF-10	FANTECH						115V	1PH		LAUNDRY DRYER VENT INLINE FAN	INLINE	⑫

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
- ⑫ INTERLOCK WITH DRYER OPERATION

EXHAUST HOODS														
MARK	TAG	MFR.	MODEL	EXHAUST CFM	MAKEUP AIR CFM	EXHAUST DUCT SIZE	EXHAUST S.P.	DIMENSIONS			SERVICE	REMARKS	TYPE 1	TYPE 2
								WIDTH	DEPTH	HEIGHT				
H-1	#23	CAPTIVE AIRE	SEE M3.1 AND M3.2	3850	3465	36X10	0.99"	14'-0"	54"	24"	KITCHEN COOKLINE	①②③④	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				HEATING		ELECTRICAL				SEER	AFUE	MIN OSA CFM	LOCATION	WEIGHT (lbs)	HEIGHT WITH CURB	REMARKS		
									TOTAL MBH	SENSIBLE MBH	EDB	EWB	AMB	INPUT MBH	OUTPUT MBH	VOLTS	PHASE	MCA								MOCP	COMPR.
AL 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
AL 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
AL 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
AL 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
AL 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
AL 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
AL 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
AL 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
AL 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
AL 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 SA 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/RESET 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		SERVICE	LOCATION	FAN TYPE				WEIGHT LBS	REMARKS	
							HP	Volts			PH	Amps	IN-LINE	ROOF MOUNT			EVAP
MAU-1	CAPTIVE AIRE	3465							HOODS H-1,EF-1	ATTIC	X		X			492	①②③④⑤⑥⑦

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.

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 ASUILT. 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 SMONA 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 BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. NO ADDITIONAL COMPENSATION 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:

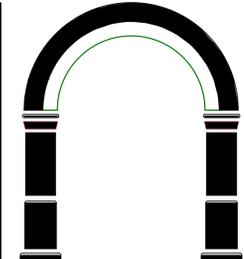
5.410.4 THROUGH 5.410.4.5.1
DEVELOP AND IMPLEMENT A PLAN OF PROCEDURES FOR TESTING AND ADJUSTIN NEW SYSTEMS, INCLUDING (AS APPLICABLE): HVAC, INDOOR AND OUTDOOR LIGHTING AND CONTROLS, WATER HEATING, RENEWABLE ENERGY, LANDSCAPE IRRIGATION, AND WATER REUSE SYSTEMS.
BALANCE NEW HVAC SYSTEMS BEFORE OPERATION 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 AND 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 IMMEDIATELY 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 FILTERS 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'STAT	THERMOSTAT
	SENSOR	SENSOR
	MECH	MECHANICAL CONTRACTOR
	ELECTRICAL	ELECTRICAL CONTRACTOR
	KITCHEN EQUIPMENT CONTRACTOR	
	BD	BACKDRAFT DAMPER
	SD	SMOKE DETECTOR
	F1	ONE HOUR FIRE DAMPER
	F3	THREE HOUR FIRE DAMPER
	SF	COMBINATION FIRE/SMOKE DAMPER
	POC	POINT OF CONNECTION
		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/LL	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
	UN	UNLESS OTHERWISE NOTED



CJ W ARCHITECTURE

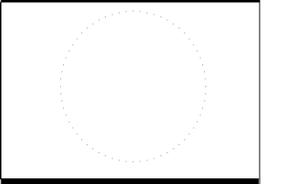
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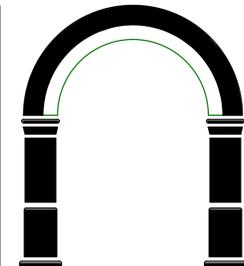
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PROJECT

LifeMoves Maple Street
Shelter
1580 Maple Street
Redwood City CA 94063

SHEET TITLE



CJW 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
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• PROJECT •

LifeMoves Maple Street
Shelter
1580 Maple Street
Redwood City CA 94063

• SHEET TITLE •

Lighting Plan

• REVISIONS •

No.	Date	Notes
1	6.17.16	BLDG SUBMITTAL 1

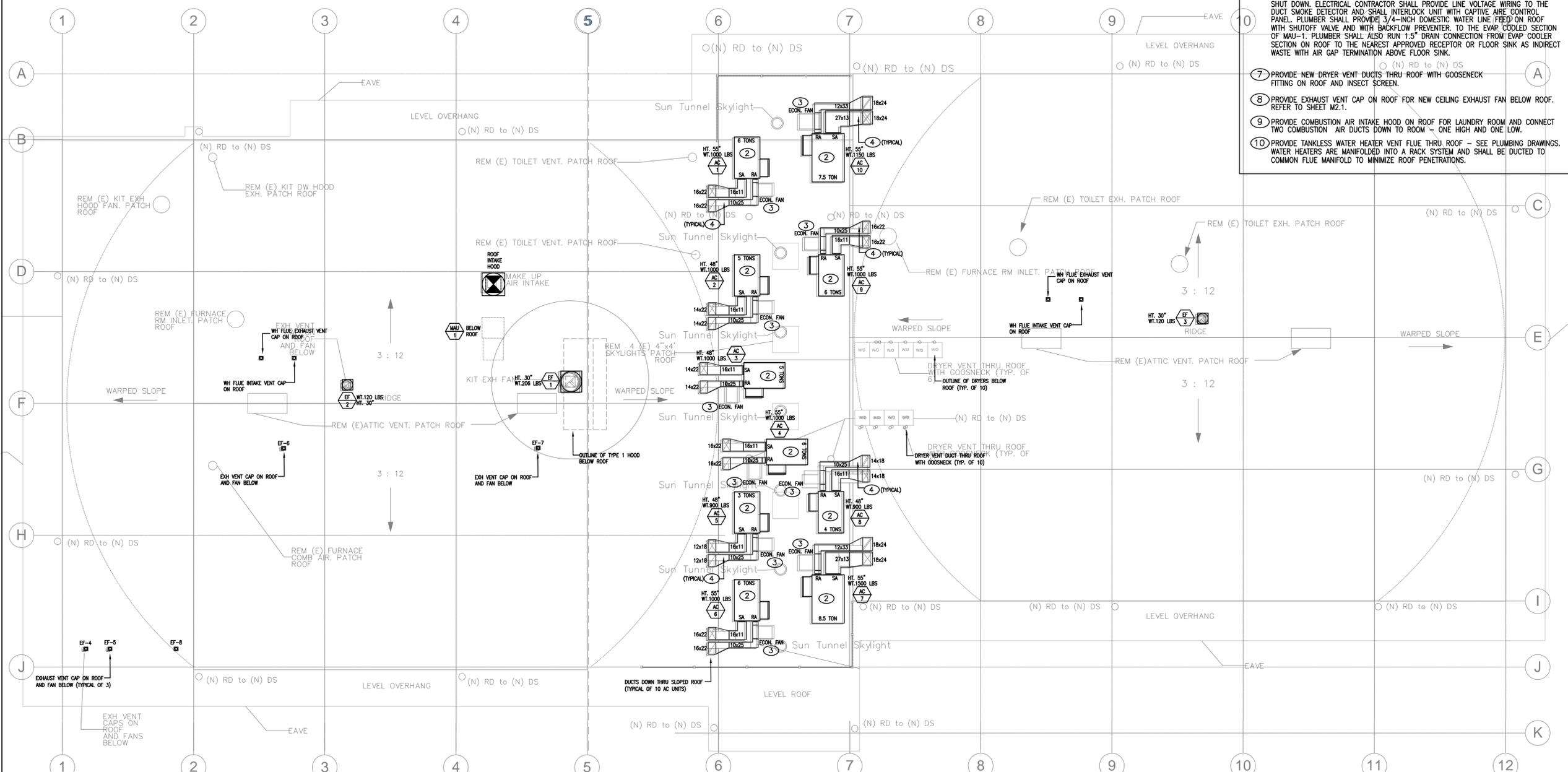
• JOB: 2015.2801

• DATE: 06/17/16

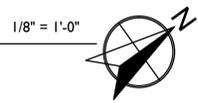
• SHEET: M2.2

KEYED SHEET NOTES:

- DEMOLISH AND REMOVE EXISTING EQUIPMENT ON ROOF, PATCH ROOF WEATHERTIGHT. REFER TO ARCHITECTURAL PLANS.
- NEW PACKAGE UNITS ON ROOF ON MFR. CURBS - SEE STRUCTURAL ENGINEER DRAWINGS.
- 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.
- 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.
- FURNISH AND INSTALL NEW EXHAUST FAN ON MFR ROOF CURB. REFER TO SHEET M3.2 FOR DETAIL.
- 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 FIRE 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 ON ROOF TO THE NEAREST APPROVED RECEPTOR OR FLOOR SINK AS INDIRECT WASTE WITH AIR GAP TERMINATION ABOVE FLOOR SINK.
- PROVIDE NEW DRYER VENT DUCTS THRU ROOF WITH GOOSENECK FITTING ON ROOF AND INSECT SCREEN.
- PROVIDE EXHAUST VENT CAP ON ROOF FOR NEW CEILING EXHAUST FAN BELOW ROOF. REFER TO SHEET M2.1.
- PROVIDE COMBUSTION AIR INTAKE HOOD ON ROOF FOR LAUNDRY ROOM AND CONNECT TWO COMBUSTION AIR DUCTS DOWN TO ROOM - ONE HIGH AND ONE LOW.
- PROVIDE TANKLESS WATER HEATER VENT FLUE THRU ROOF - SEE PLUMBING DRAWINGS. WATER HEATERS ARE MANFOLDED INTO A RACK SYSTEM AND SHALL BE DUCTED TO COMMON FLUE MANIFOLD TO MINIMIZE ROOF PENETRATIONS.



HVAC Roof Plan



HOOD INFORMATION - Job#2594520

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	TOTAL EXH. CFM	EXHAUST PLENUM RISER(S)					TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG.	
						WIDTH	LENG.	DIA.	CFM	S.P.			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 LISTING IS 200 CFM/FT (600 DEGREES)
 □ ETL LISTING □14.0" □2800 CFM □3850 CFM (DESIGN)
 MODEL ND-2 IS ETL LISTED WITH 1 ETL RISER UP TO 16"

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER

THE CAPTRATE GREASE-STOP SOLID 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.

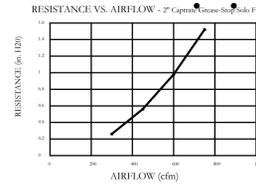
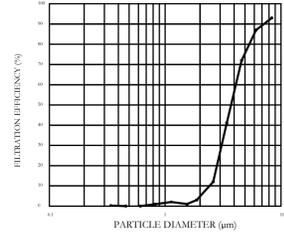
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

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 SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05.

FILTER COLLECTION EFFICIENCY: Captrate® Grease-Stop® Solid Filter



HOOD INFORMATION

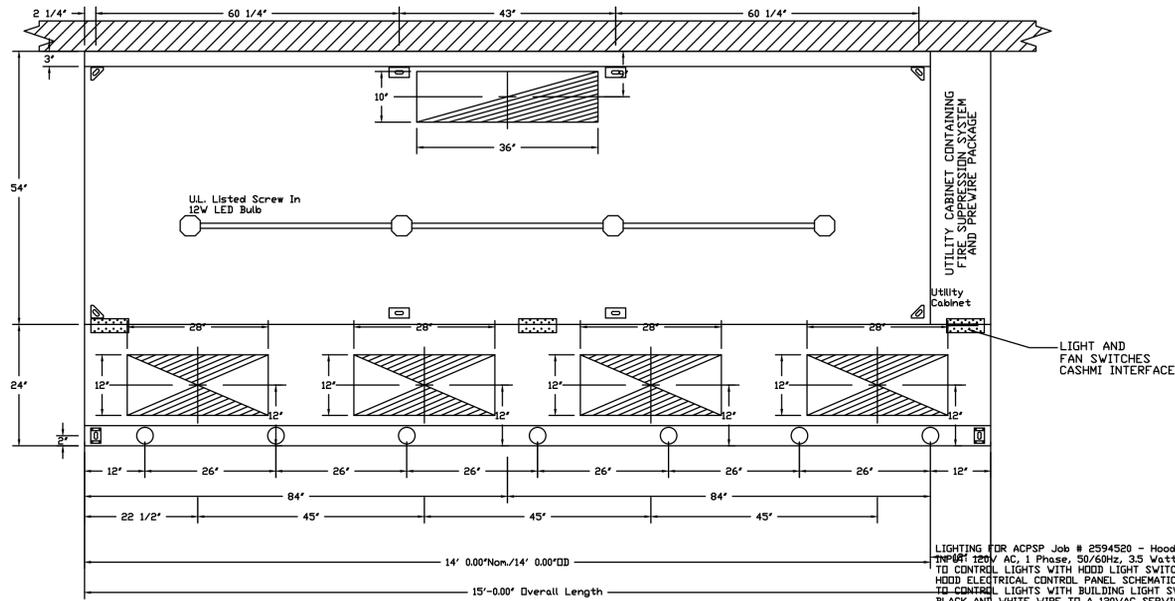
HOOD NO.	TAG	FILTER(S)					LIGHT(S)			UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WGT	
		TYPE	QTY.	HEIGHT	LENGTH	EFFICIENCY @ 9 MICRONS	QTY.	TYPE	WIRE GUARD	LOCATION	TYPE	SIZE	ELECTRICAL MODEL #			SWITCHES QUANTITY
1		Captrate Solo Filter	10	20"	16'	93% See Filter Spec.	4	Screw In 12W LED	ND	Right	Ansul R102	3.0/3.0	SC-31111002	1 Light 1 Fan	YES	963 LBS

HOOD OPTIONS

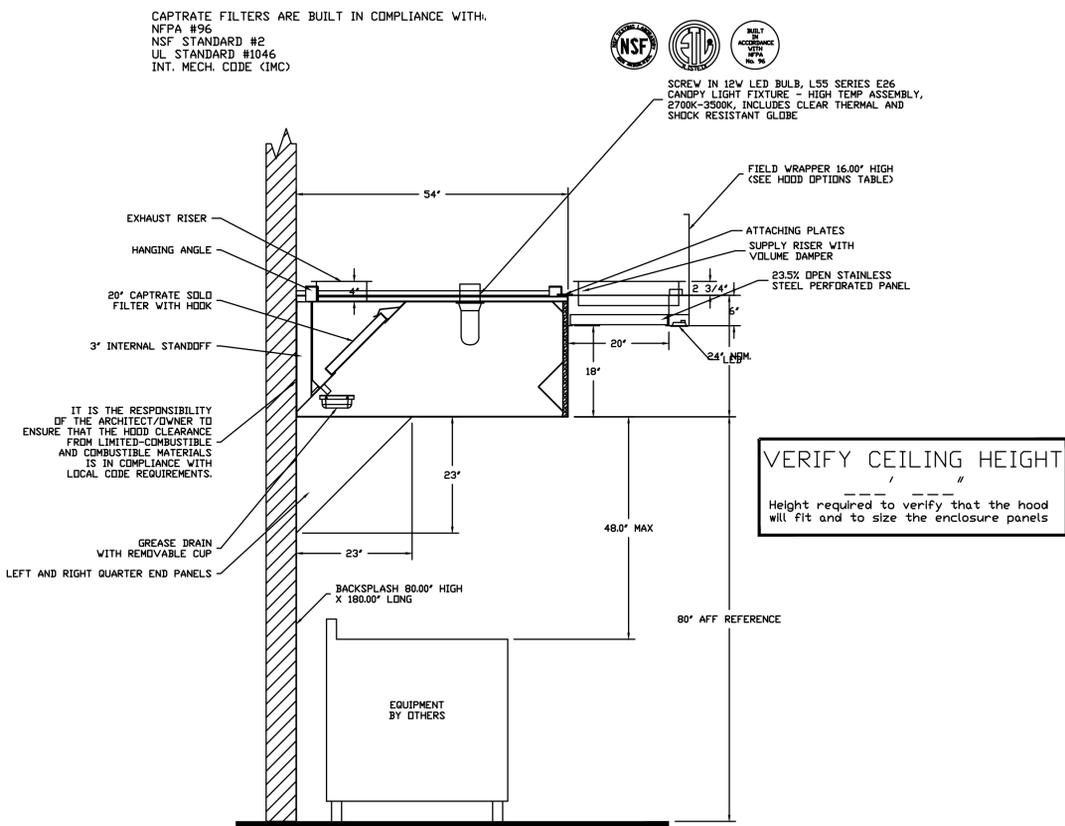
HOOD NO.	TAG	OPTION
1		FIELD WRAPPER 16.00" High Front, Left, Right BACKSPLASH 80.00" High X 180.00" Long 430 SS Vertical RIGHT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23" High 430 SS LEFT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23" High 430 SS

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'



PLAN VIEW - Hood #1
 14' 0.00" LONG 5424ND-2-PSP-F
 NOTE: Additional hanging angles provided for hoods 12' and longer.



SECTION VIEW - MODEL 5424ND-2-PSP-F
 HOOD - #1

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

NO.	DATE	NOTES
1	6.17.16	BLDG SUBMITTAL 1

DATE: 3/11/2016
DWG.#: 2594520
DRAWN BY:
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
1

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

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

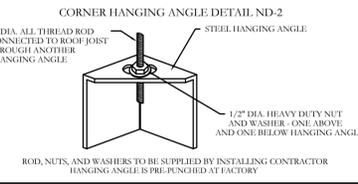


PROJECT
 LifeMoves Maple Street Shelter
 1580 Maple Street
 Redwood City CA 94063

SHEET TITLE
 Hood Shop Drawings

REVISIONS

JOB: 2015.2801
DATE: 06/17/16
SHEET: M3.1



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

CAPTRATE & KLEIN-GARD FILTERS ARE BUILT IN COMPLIANCE WITH

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.)	SDNES
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.)	SDNES
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
1		1 - Evaporative Cooler Wiring Harness
2		1 - A 2 Indoor Hanging Option - Includes 2 HSA125 Hanging Spring Isolators per Uni-Strut

FAN ACCESSORIES

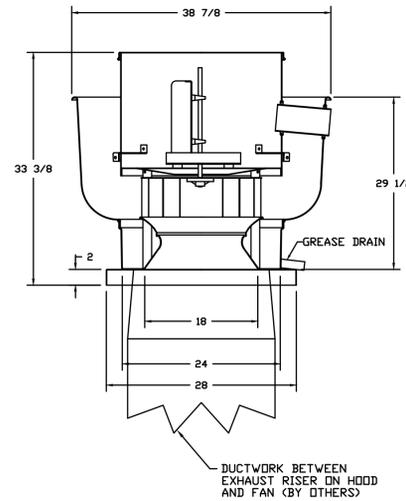
FAN UNIT NO.	TAG	EXHAUST				SUPPLY		
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1		YES			YES			
2								

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 #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.

FAN #1 NCA18FA - EXHAUST FAN



FEATURES:

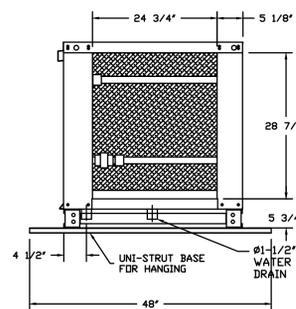
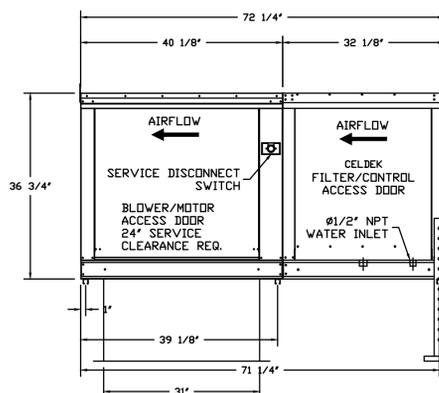
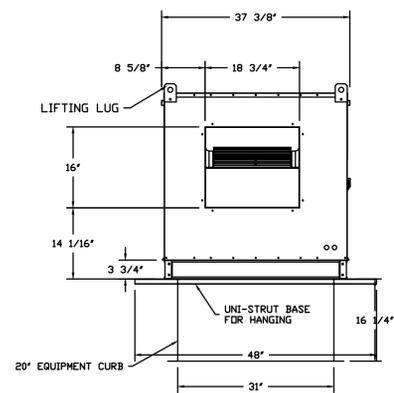
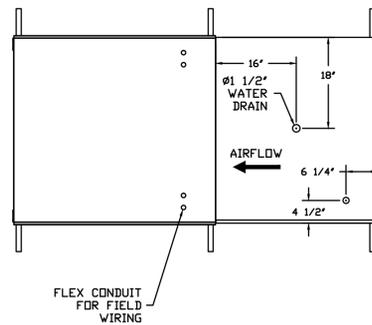
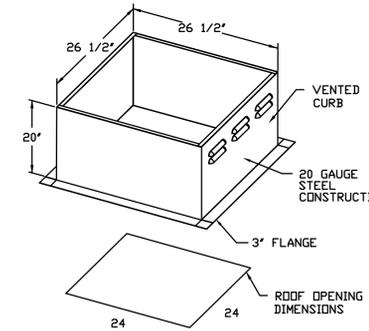
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- AHCA SOUND AND AIR CERTIFIED
- WIRING FROM MOTOR TO DISCONNECT SWITCH
- WEATHERPROOF DISCONNECT
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

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



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REVISIONS

NO.	DATE	DESCRIPTION

CAPTIVEAIRE
 CENTRAL CA
 8 Adrian Court, Burlingame, CA, 94010 PHONE: (415) 956-2200 FAX: (919) 227-5940 EMAIL: reg91@captiveaire.com

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
 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 Equipment Details

REVISIONS

No.	Date	Notes

JOB: 2015.2801

DATE: 06/17/16

SHEET: M3.3

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
 (CEC-NRCC-MCH-01-E (Revised 08/15))
 CERTIFICATE OF COMPLIANCE
 Mechanical Systems
 Project Name: Lifemoves Maple St Shelter-1580 Maple St, Redwood City CA Date Prepared: 06.17.2016

CALIFORNIA ENERGY COMMISSION
 NRCC-MCH-01-E
 (Page 1 of 4)

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
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-MCH-01-E (Part 1 of 3)	Certificate of Compliance, Declaration. Required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-MCH-01-E (Part 2 of 3)	Certificate of Compliance, Required Acceptance Tests (MCH-02A to 11A). Required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-MCH-01-E (Part 3 of 3)	Certificate of Compliance, Required Acceptance Tests (MCH-12A to 18A). Required on plans where applicable.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	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.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	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.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-MCH-07-E (Part 1 of 2)	Power Consumption of Fans. Required on plans where applicable
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-MCH-07-E (Part 2 of 2)	Power Consumption of Fans, Declaration. Required on plans where applicable

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2015

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
 (CEC-NRCC-MCH-01-E (Revised 08/15))
 CERTIFICATE OF COMPLIANCE
 Mechanical Systems
 Project Name: Lifemoves Maple St Shelter- 1580 Maple St., Redwood City CA Date Prepared: 06.17.2016

CALIFORNIA ENERGY COMMISSION
 NRCC-MCH-01-E
 (Page 2 of 4)

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 entry 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 Central 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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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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 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. 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.

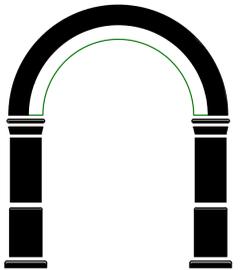
The Annual Visual Inspection will be conducted by a certified Cross Connection Control Specialist and will be performed in the presence of the Site Supervisor and City staff. The inspection will include a check of the following:

- 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

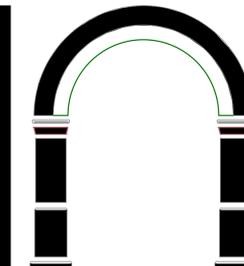
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JOB: 2015.2801

DATE: 06/17/16

SHEET: P0.2



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PROJECT

LifeMoves Maple Street
Shelter
1580 Maple Street
Redwood City CA 94063

SHEET TITLE

PLUMBING PLAN -
DEMOLITION

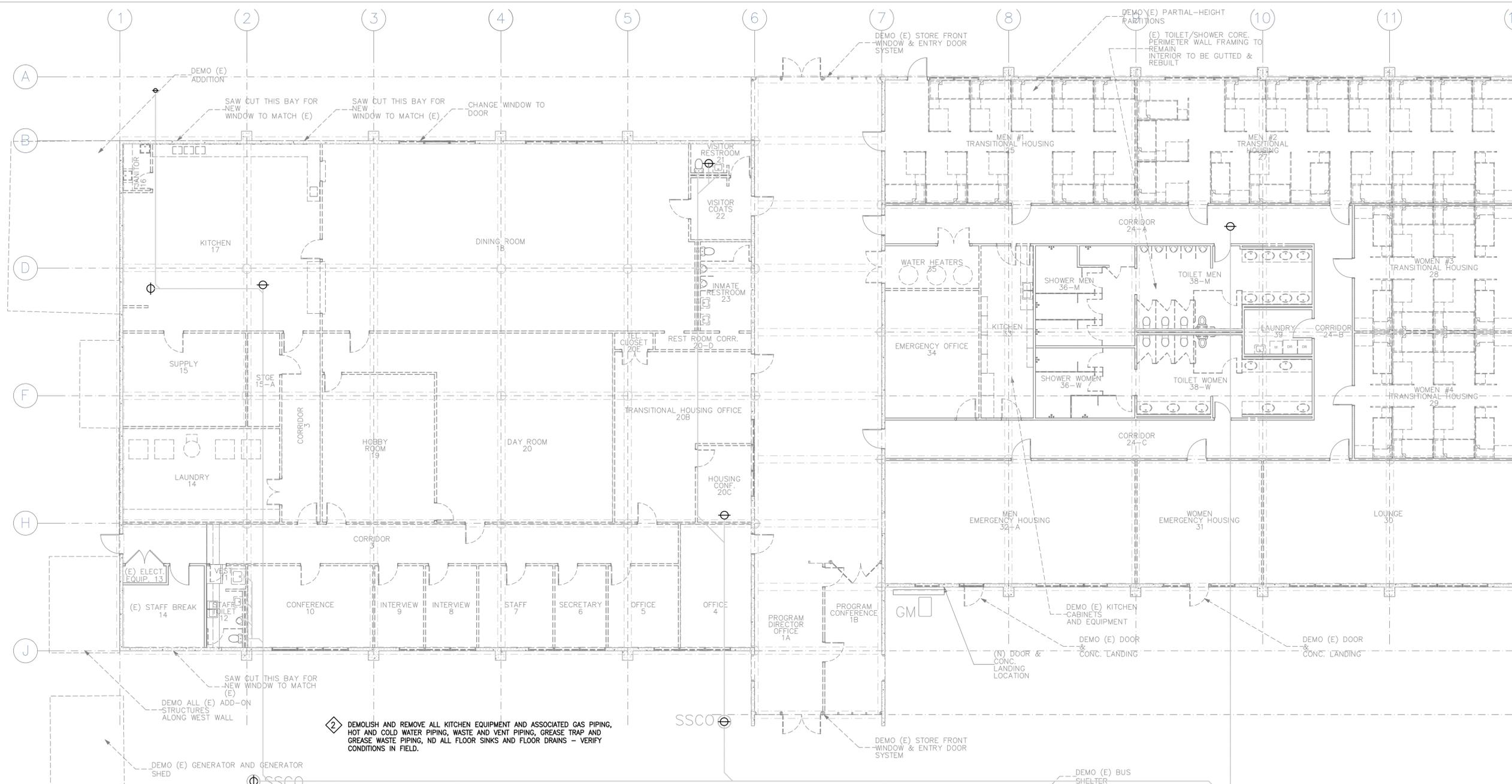
REVISIONS

No.	Date	Notes
	6.17.16	BLDG SUBMITTAL 1

JOB: 2015.2801

DATE: 06/17/16

SHEET: P2.4



PLUMBING PLAN - DEMOLITION

1/8" = 1'-0"



KEY NOTES

- 1 DEMOLISH AND REMOVE EXISTING RESTROOM FIXTURES AND ASSOCIATED PLUMBING WORK. CAP OFF PIPING BELOW SLAB.
- 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, AND ALL FLOOR SINKS AND FLOOR DRAINS - VERIFY CONDITIONS IN FIELD.
- 3 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.
- 4 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.
- 5 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.

SSCO

SSCO

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.

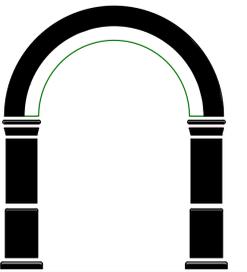
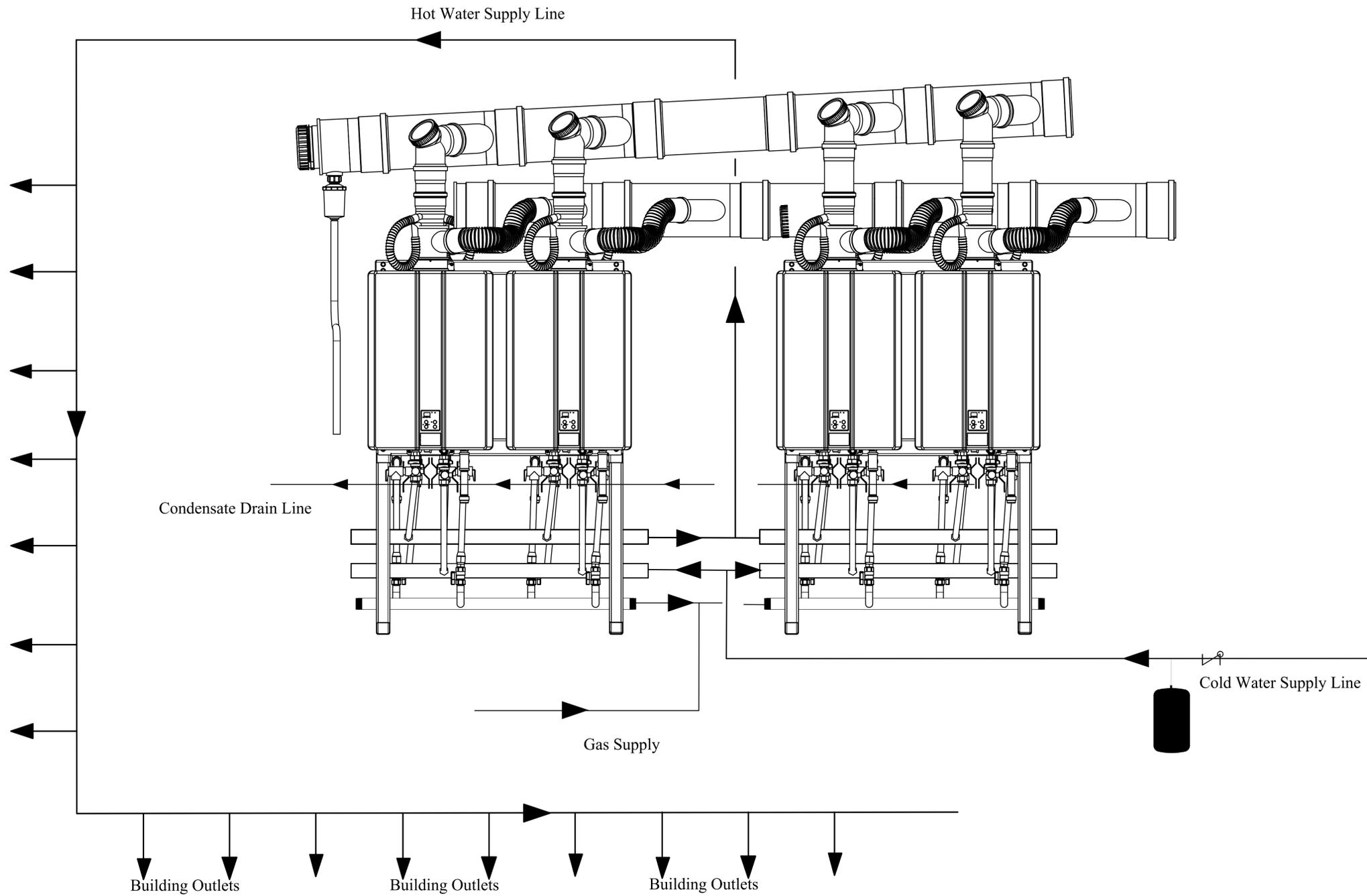
Condensate must be disposed of according to local codes.

Pump should be controlled by an Aquastat, Timer or Combination Aquastat 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
1580 Maple Street
Redwood City CA 94063

◦ SHEET TITLE ◦

WATER HEATER
DETAILS

◦ REVISIONS ◦

No.	Date	Notes
—	6.17.16	BLDG SUBMITTAL 1
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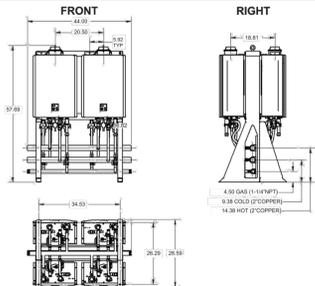
◦ JOB: 2015.2801

◦ DATE: 06/17/16

◦ SHEET: P3.1

Specifications

4 UNIT FREE STANDING FRAME



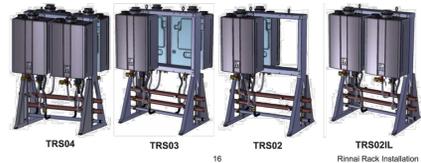
Model	Configuration	Illustration
TRS04		
TRS03		
TRS02L	In-line (along same direction)	
TRS02	Back Back	

Rinnai Rack Installation

Specifications

4 UNIT FREE STANDING FRAME

Model	TRS04	TRS03	TRS02	TRS02L
Water Heater Model	RU98, RUC98, C199, RU98e, C199e (NGLP)			
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



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.

For use with Rinnai Tankless Water Heaters* (except for models VS3e, VS3, and NS3-5e which must use pressure activation valves, PVA).

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 service 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 gpm then for a system with 3 water heaters in standby, the activation flow rate will be 1.2 gpm.

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 MC-C1) can be connected to the master MSB board to provide temperatures greater than 140°F for all the water heaters in the MSB system.

MSB-M kit includes: Control board, Cable A (19 in, 450 mm), Cable B (8 ft, 2.4 m), Brackets, ties, and screws, Instructions.

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MSB Kits for Connecting Multiple Water Heaters

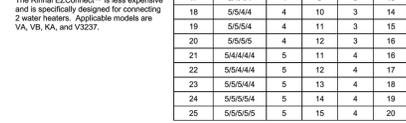
No. of water heaters	No. of water heaters for each bank	Number of Kits Required			
		MSB-M	MSB-C1	MSB-C2	MSB-C3
2**	2	1	NA	NA	1
3	3	1	1	NA	2
4	4	1	2	NA	3
5	5	1	3	NA	4
6	3/3	2	2	1	4
7	4/3	2	3	1	5
8	4/4	2	4	1	6
9	5/4	2	5	1	7
10	5/5	2	6	1	8
11	4/4/3	3	5	2	8
12	4/4/4	3	6	2	9
13	5/4/4	3	7	2	10
14	5/5/4	3	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

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.

* VA, VB, and KA (Condensing) models use the MSB-M, MSB-C1, and MSB-C2 cables.

** The Rinnai EConnect™ is less expensive and is specifically designed for connecting 2 water heaters. Applicable models are VA, VB, KA, and V237.



- MSB-M kit includes: Control board, Cable A (19 in, 450 mm), Cable B (8 ft, 2.4 m), Brackets, ties, and screws, Instructions.
- MSB-C1 kit includes: Cable B (8 ft, 2.4 m), Brackets, ties, and screws, Instructions.
- MSB-C2 kit includes: Cable C (13.1 ft, 4.0 m), Terminal connectors, Instructions.
- MSB-C3 kit includes: Cable C (8 ft, 2.4 m), Terminal connectors, Instructions.

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Rinnai C199i (KBD3237FFUDC)

Type of Appliance: Commercial Condensing Tankless Water Heater, Commercial Energy Star, REU-KBD3237FFUDC-US, Forced combustion; indoor only.

Minimum/Maximum Gas Rate (Input): 15,200 - 199,000 BTU/h (4.5-58.3 kW/h)

Electrical: Appliance: AC 120 Volts - 60 Hz, Temperature Controller: DC 12 Volts, Normal: 75 w Standby; 2 w Air-frost protection: 146 w Max: 4A.

Electrical Consumption: Direct electronic ignition.

Ignition System: Minimum flow rate: 0.26 GPM (1 l/min), Minimum activation flow rate: 0.4 GPM (1.5 l/min), Maximum flow rate: 18.8 GPM (37.1 l/min).

Temperature: Factory Default Range - 98°-120° F (37°-49°C), Optional Range - 98°-185° F (37°-85°C), 120° F (49°C) (factory default) or 140° F (60°C).

Approved Gas Types: Natural or Propane (ensure unit matches gas type).

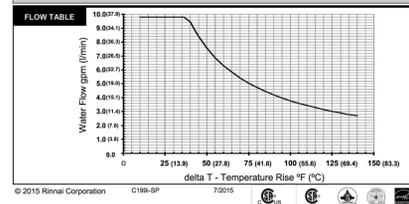
Thermal Efficiency: Natural Gas: 96%, Propane: 96%.

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 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.



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Rinnai C199i (KBD3237FFUDC)

Controller: MC-91-2US (included).

Controller Cable: Non-polarized two-core cable, minimum 22 AWG.

Safety Devices: Flame failure - Flame Rod, Remaining flame (RHS), Thermal fuse, Automatic frost protection, Over current - glass fuse.

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).

Clearances from Non-combustibles: 24 inches (610mm) required for service. Top of heater - 2 inches (51mm), Front of heater - 4 inches (102mm), Sides of heater - 1/2 inches (13mm).

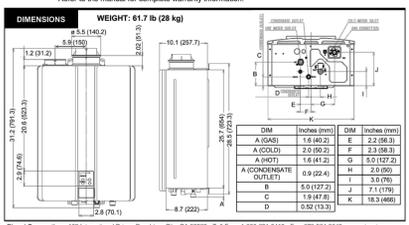
Min. / Max. Gas Supply Pressure: Natural Gas: min 4" W.C. (2.5mbar) max 10.5" W.C. (26.1mbar), Propane Gas: min 6" W.C. (20mbar) max 13.5" W.C. (33.6mbar).

Manifold Gas Pressure (inches W.C.): Natural Gas: high fire 10" W.C. (7.7mbar) low fire 6.47" W.C. (1.6mbar), 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/d or 20 ppm NOx emission levels.

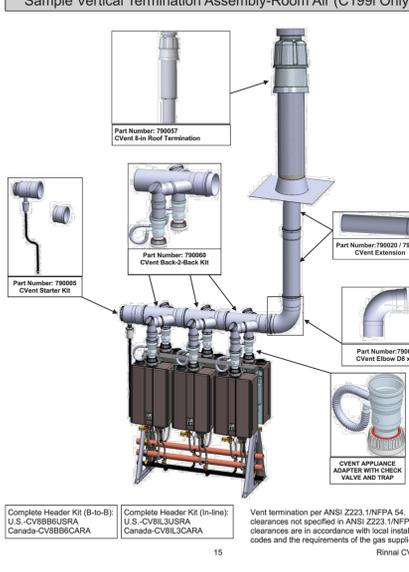
Venting: 1/2" Polypropylene Concentric Vent, 1/2" Polypropylene Concentric Vent.

Limited Warranty: Heat exchanger, 5 years*. All other parts, 5 years*. Labor, 1 year; (1 year 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 equalizer/thermostat, timer, or an on-demand recirculation system is not incorporated.) Refer to the manual for complete warranty information.



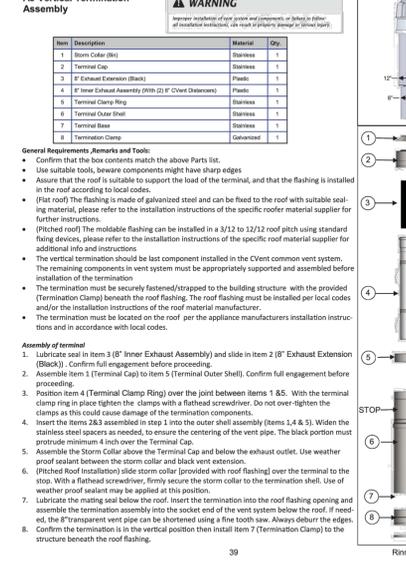
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Sample Vertical Termination Assembly-Room Air (C199i Only)



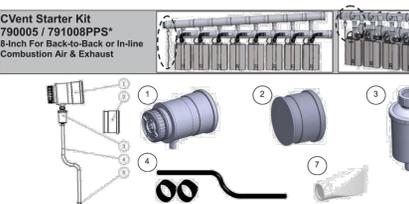
Rinnai Cvent

AD Vertical Termination Assembly



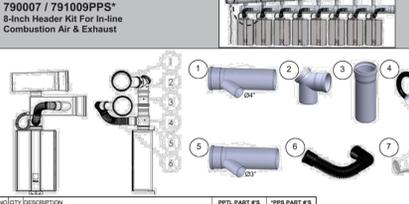
Rinnai Cvent

Cvent Starter Kit 790005 / 791008PPS*



NO.	QTY.	DESCRIPTION	PPFL PART #S	PPS PART #S
1	1	CVENT ENGINEER EXHAUST W/ CLEANOUT & CONDENSATE DRAIN (22mm)	790042	NA
2	1	CVENT COMB AIR EXHAUST (2")	790046	NA
3	1	CVENT CONDENSATE TRAP (22mm Connector)	790048	NA
4	1	CVENT DRAIN HOSE AND CLAMP	790049	NA
5	1	USING INSTALLATION INSTRUCTION	NA	NA
7	1	CENTROSEAL LUBRICANT	NA	NA

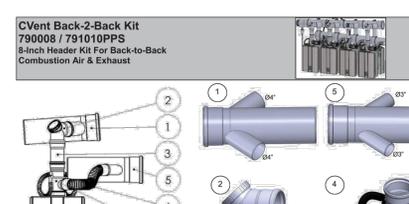
Cvent In-line Kit 790007 / 791009PPS*



NO.	QTY.	DESCRIPTION	PPFL PART #S	PPS PART #S
1	1	CVENT COLLECTOR, 1 CONNECTION, DR X L20 X 24 (22mm)	790050	NA
2	1	CVENT ELBOW 24 X 8" WITH CLEANOUT	790050	NA
3	1	CVENT EXTENSION, DR X L18	790050	NA
4	1	CVENT APPURANCE ADAPTER WITH CHECK VALVE AND HOSE TRAP	790050	NA
5	1	CVENT COMB AIR COLLECTOR, 1 CONNECTION, DR X L20 X 24	790044	NA
6	1	CVENT COMB AIR FLEX FITTING, DR	790050	NA
7	1	CENTROSEAL LUBRICANT	NA	NA

Rinnai Cvent

Cvent Back-2-Back Kit 790008 / 791010PPS*



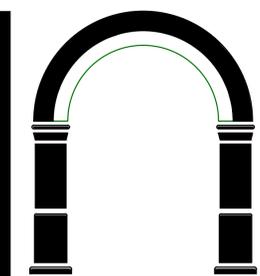
NO.	QTY.	DESCRIPTION	PPFL PART #S	PPS PART #S
1	1	CVENT COLLECTOR, 2 CONNECTION, DR X L20	790041	NA
2	2	CVENT ELBOW 24 X 8" WITH CLEANOUT	790050	NA
3	1	CVENT EXTENSION, DR X L18	790050	NA
4	2	CVENT APPURANCE ADAPTER WITH CHECK VALVE AND HOSE TRAP	790050	NA
5	1	CVENT COMB AIR COLLECTOR, 2 CONNECTION	790044	NA
6	1	CVENT COMB AIR FLEX FITTING, DR	790050	NA
7	1	CENTROSEAL LUBRICANT	NA	NA

Cvent Header Kit For Back-to-Back Combustion Air & Exhaust



NO.	QTY.	DESCRIPTION	PPFL PART #S	PPS PART #S
1	1	CVENT COLLECTOR, 2 CONNECTION, DR X L20	790041	NA
2	2	CVENT ELBOW 24 X 8" WITH CLEANOUT	790050	NA
3	1	CVENT EXTENSION, DR X L18	790050	NA
4	2	CVENT APPURANCE ADAPTER WITH CHECK VALVE AND HOSE TRAP	790050	NA
5	1	CVENT COMB AIR COLLECTOR, 2 CONNECTION, DR X L20 X 24	790044	NA
6	1	CVENT COMB AIR FLEX FITTING, DR	790050	NA
7	1	CENTROSEAL LUBRICANT	NA	NA

Rinnai Cvent



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PROJECT

LifeMoves Maple Street
Shelter
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Redwood City CA 94063

SHEET TITLE

WATER HEATER ACCESSORIES DETAILS

REVISIONS

No.	Date	Notes
	6.17.16	BLDG SUBMITTAL 1

JOB: 2015.2801

DATE: 06/17/16

SHEET: P3.2

