

CITY OF MILPITAS

TEMPORARY FIRE STATION 2

1126 YOSEMITE DRIVE, MILPITAS, CA (PROJECT 3447)

SITE INFORMATION (AREA CALCULATIONS FOUND ON SHEET A-002)

ASSESSOR'S PARCEL NUMBER (APN): 8629059
 FEATURE NAME: 12492

ZONING DESCRIPTION: M2
 PROPERTY IS CURRENTLY DESIGNATED FOR ZONING: INDUSTRIAL

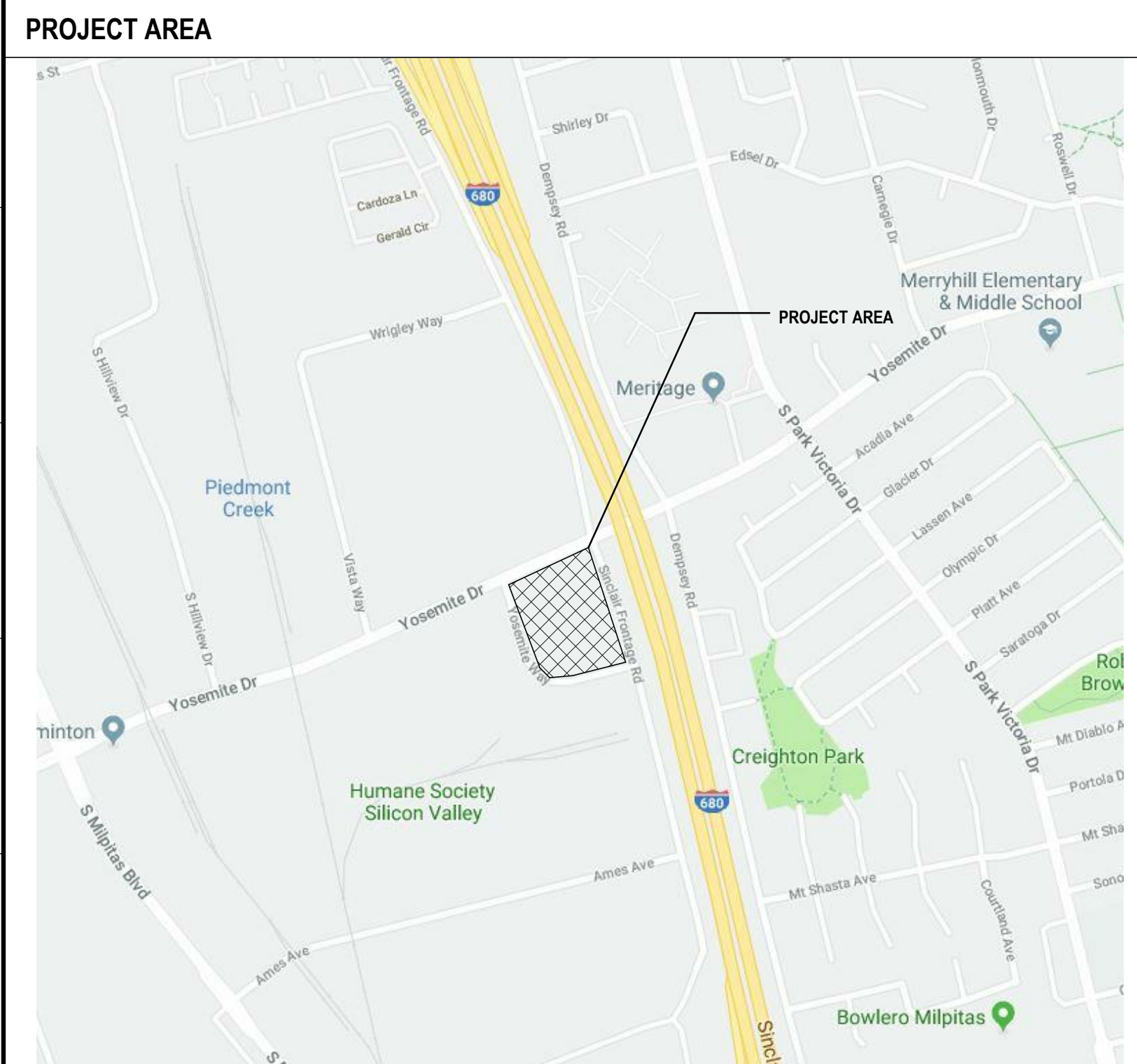
PROJECT DESCRIPTION

THIS TENANT IMPROVEMENT IS INTENDED TO ALLOW THE MILPITAS FIRE STATION NO. 2 CREW TO OPERATE WHILE THEIR CURRENT STATION (LOCATED AT 1263 YOSEMITE DR.) IS REPLACED WITH NEW FACILITIES. THIS EXISTING BUILDING IS A SINGLE-STORY WAREHOUSE AND OFFICE BUILDING. THE SCOPE OF THE T.I. ENCOMPASSES THE NORTH-MOST HALF OF THE BUILDING TOTALING 5646 SQ.FT. THIS BUILDING IS LOCATED AT THE SOUTH-WEST CORNER OF YOSEMITE DR. AND SINCLAIR FRONTAGE RD.

RENOVATIONS INCLUDE:
 - AN UPDATED KITCHEN, INCLUDING NEW RESIDENTIAL TYPE OVEN AND RANGE
 - INSTALLING A NEW ACCESSIBLE BATHROOM INCLUDING INSTALLATION OF NEW ACCESSIBLE ROLL-IN SHOWERING UNIT
 - INSTALLATION OF NEW 1HR RATED DOORS ALONG (E) CONC PANEL WALL THAT SEPARATES R-2 FROM S-2 OCCUPANCY TYPES
 - INSTALLATION OF PORTABLE GENERATOR W/ AUTOMATIC TRANSFER SWITCH
 - REPLACING LIMITED NON-RATED WALLS / DOORS

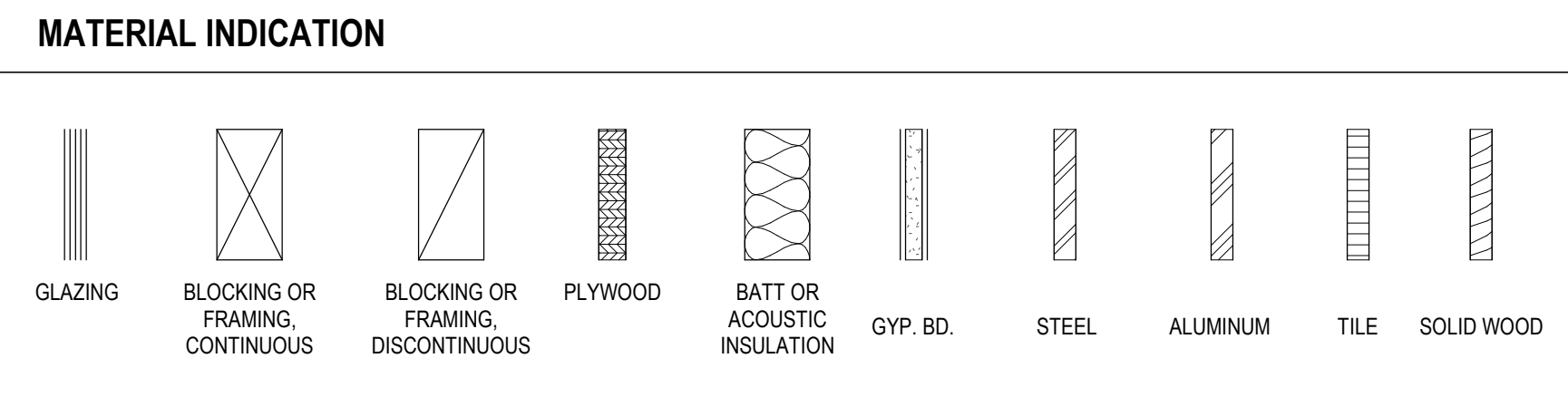
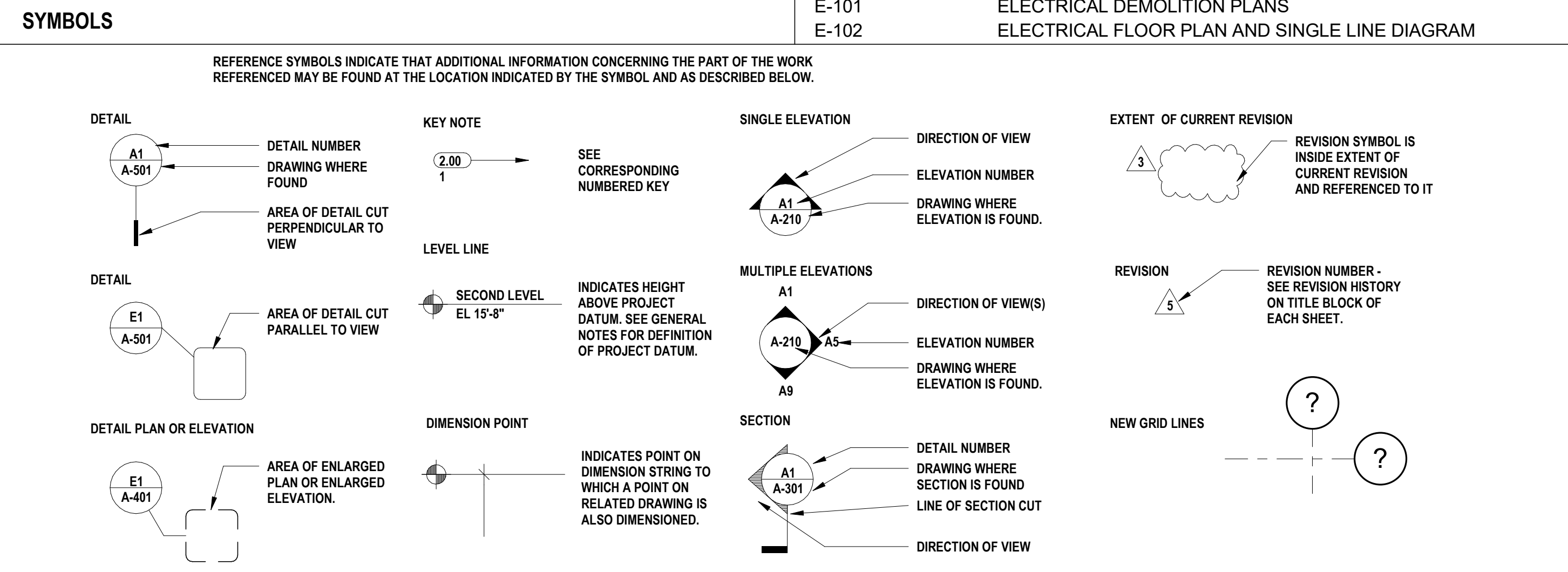
PROJECT TEAM

OWNER: CITY OF MILPITAS 455 E. CALAVERAS BLVD. MILPITAS, CA 95035 (669) 263 3257	MECH/PLUMB ENGINEER: 3C ENGINEERING 1500 PALM STREET SAN LUIS OBISPO, CA 93401 (805) 540 3364	GEOTECH ENGINEER: TERRACON 5075 COMMERCIAL CIRCLE, SUITE E CONCORD, CA 94520 (925) 609 7224
ARCHITECT: SHAH KAWASAKI ARCHITECTS 570 10TH STREET, SUITE 201 OAKLAND, CA 94607 (510) 663-6090	COST ESTIMATOR: CUMMING CORPORATION 475 SANSOME STREET, SUITE 520 SAN FRANCISCO, CA 94111 (415) 748 3080	ELEC. ENGINEER: THOMA ENGINEERING 3562 EMPLOY ST. SAN LUIS OBISPO, CA 93406 (805) 543-3850



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A-003	CODE DETAILS
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A-006	FIRESTOP CUTSHEETS
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E-003	PANEL SCHEDULE
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- GENERAL NOTES**
- WRITTEN DIMENSIONS ON THESE DRAWINGS HAVE PRECEDENCE. DO NOT SCALE DRAWINGS. DETAIL SHALL GOVERN OVER PLANS AND ELEVATIONS. LARGE SCALE DETAILS SHALL GOVERN OVER SMALL SCALE DETAILS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS ON THE JOB. NOTIFY THE ARCHITECT OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ALL DISCREPANCIES SHALL BE CALLED TO THE ARCHITECT'S ATTENTION AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
 - DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN. SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW BY THE ARCHITECT. NOTES OF ONE DRAWING OR DETAIL APPLY TO ALL OTHER SIMILAR DRAWINGS OR DETAILS.
 - AS A GENERAL GUIDE, DIMENSIONS ARE TAKEN TO FACE OF STUD AND CENTER LINE OF STRUCTURAL COLUMN GRID LINES, UNLESS OTHERWISE NOTED ON THE DRAWINGS. CLEAR DIMENSIONS ARE TO FACE OF FINISH.
 - ELEVATIONS AND DATUM ARE POINTS OF REFERENCE IN THE WORK.
 - CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE CONSTRUCTION DOCUMENTS, VISIT THE JOB SITE TO VERIFY EXISTING CONDITIONS, AND NOTIFY THE ARCHITECT OF ANY PERCEIVED DISCREPANCIES BETWEEN THE PLANS AND THE SITE CONDITIONS BEFORE COMMENCING ANY WORK. CONTRACTOR TO VERIFY THAT THERE ARE NO CONDITIONS PREVAILING THAT WILL PREVENT HIM FROM PROCEEDING WITH A NORMAL, UNINTERRUPTED CONSTRUCTION PROCESS.
 - "TYPICAL" (TYP.) MEANS IDENTICAL FOR ALL SIMILAR LOCATIONS.
 - "SIMILAR" (SIM.) MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITION NOTED. VERIFY DIMENSIONS AND ORIENTATION WITH DRAWINGS.
 - THE CONTRACTOR SHALL ASSIST IN THE COORDINATION OF "NIC" ITEMS INCLUDING FURNITURE INSTALLATION, EQUIPMENT INSTALLATION, TELEPHONE WORK, ETC.
 - ALL PARTITIONING OF CEILINGS & SOFFITS ARE DESIGN BUILD & SHALL BE BRACED IN COMPLIANCE WITH THE REQUIREMENTS OF ALL APPLICABLE SEISMIC AND BUILDING CODES.
 - THE CONTRACTOR SHALL PROVIDE METAL BACKING PLATES, OR SOLID WOOD BLOCKING, AS REQUIRED IN WALLS BEHIND ALL MOUNTED ITEMS OF CASEWORK, ACCESSORIES, ETC.
 - DIMENSIONS OF, AND TO, EXTERIOR OPENINGS ARE FACE OF STUD OF THE ROUGH OPENING.
 - VERTICAL MEASUREMENTS AND SPOT ELEVATIONS ON ARCHITECTURAL DRAWINGS ARE DRAWN IN REFERENCE TO CIVIL DRAWINGS TOP OF SLAB AT FIRST FLOOR. SEE CIVIL DRAWINGS FOR BASIS OF BEARINGS AND BENCHMARK.
 - CONTRACTOR TO PROVIDE FIRE BLOCKING AND DRAFT STOPPING WITHIN CONCEALED SPACES AS REQUIRED BY THE BUILDING CODE.
 - ALL PENETRATIONS IN RATED WALLS SHALL BE INFILLED WITH CONTINUOUS FIRE CAULKING. USE FIRESTOPPING SYSTEM MANUFACTURED BY HILTI ACCORDING TO THE DETAIL #3 ON P-001 AND DETAIL #1 & 4 ON E-002



GENERAL COMMENTS

1. AFTER THE COMPLETION OF THE TENANT IMPROVEMENT WORK, THE CONTRACTOR SHALL PROVIDE A DETAILED CLEANING SERVICE FOR THE ENTIRE OFFICE BUILDING, EXCLUDING WAREHOUSE SPACE. THE WORK INCLUDES, BUT NOT LIMITED TO, CLEANING BUILDING INTERIOR AND EXTERIOR WALLS, CLEANING CARPET, LIGHTING, BATHROOM, CEILING, FURNITURE, AND ETC...

<p>City of Milpitas Building and Safety Department</p> <p>Meeting Address: 405 East Calaveras Boulevard, Milpitas, California 95035-4779 • Tel: 408.366.5238, Fax: 408.366.5285 • www.ci.milpitas.ca.us</p>	Policy: BDP-BLG41 Effective Date: 6/9/17 Prepared by: BYC Last Reviewed/Revised: Revised by:
	Approved By: Gary King City Building Official

FIRESTOPPING SYSTEM REQUIREMENTS

- Firestopping systems shall be listed approved assemblies from the same manufacturer throughout the entire project.
- All firestopping systems details per approved listing shall be provided on Architectural drawings and shall be referenced on drawings where firestopping systems is required.

Page 1 of 1
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Architect of Record
SHAH KAWASAKI ARCHITECTS
 570 10th Street, Suite 201
 Oakland, CA 94607
 Consultant

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100%	DESIGN DEVELOPMENT		09/27/2019
	ISSUED FOR PERMIT		10/09/2019
	RE-ISSUE FOR PERMIT		10/24/2019
	RESPONSE TO CITY PERMIT		11/11/2019

CITY OF MILPITAS ENGINEERING DIVISION

CITY OF MILPITAS FIRE STATION NO.2 TEMP. STATION

1126 YOSEMITE DRIVE, MILPITAS, CA

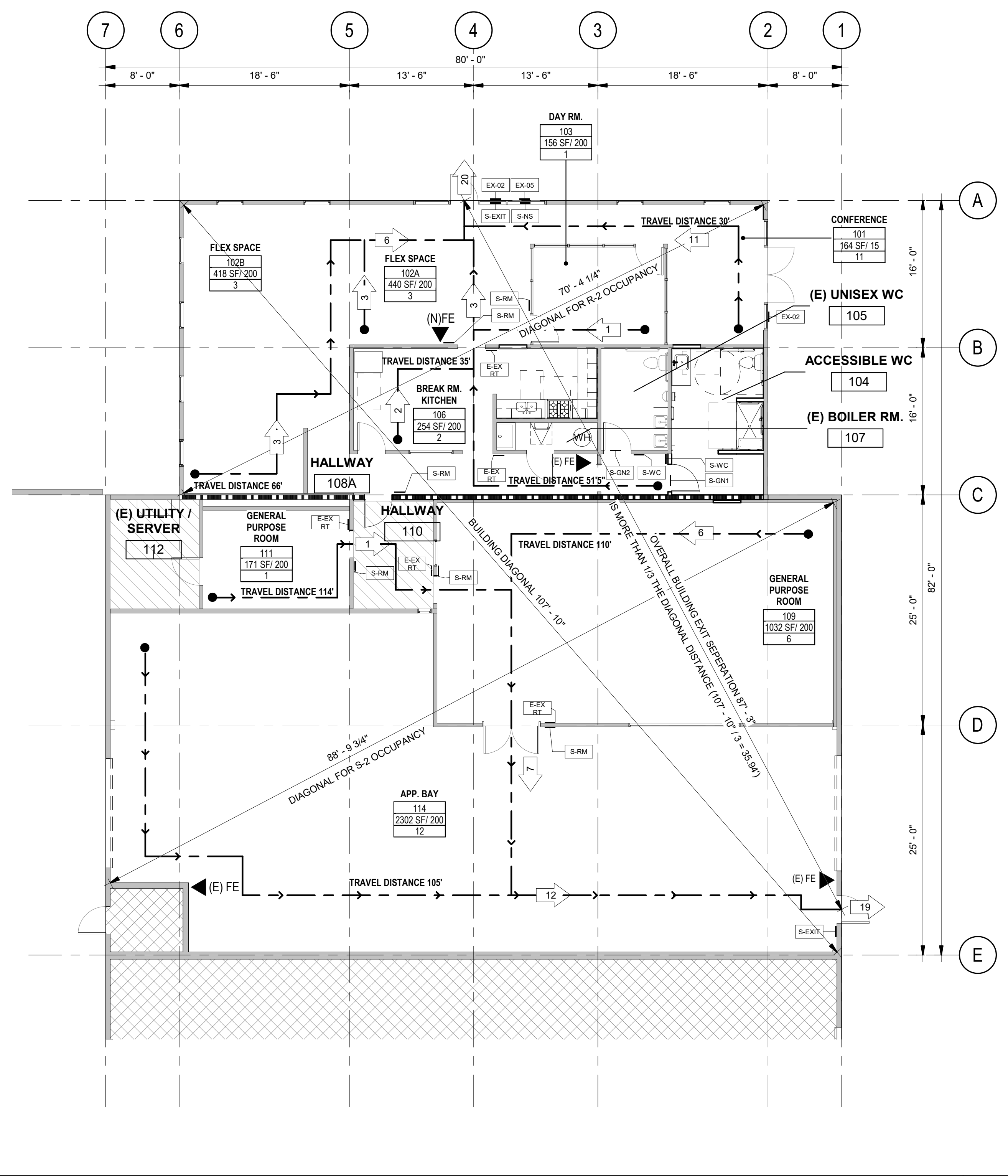
COVER SHEET

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RECOMMENDED FOR BIDDING BY: MICHAEL SILVEIRA, P.E., CIP MANAGER DATE: _____
 APPROVED FOR BIDDING BY: STEVE P. ERICKSON, P.E. CITY ENGINEER DATE: _____

City Project Number: 3447
 REC. DWG NO. _____
 Drawing No. **A-001**
 Sheet No. _____ of _____

G:\19725.01\Drawings\CITY OF MILPITAS FIRE STATION 2



CODE DIAGRAM / MEANS OF EGRESS A12
1/8" = 1'-0"

CODE SUMMARY

APPLICABLE CODES
 2016 CALIFORNIA BUILDING CODE PART 2 VOLUME 1 AND 2
 2016 CALIFORNIA ELECTRICAL CODE
 2016 CALIFORNIA MECHANICAL CODE
 2016 CALIFORNIA PLUMBING CODE
 2016 CALIFORNIA ENERGY CODE
 2016 CALIFORNIA FIRE CODE
 2016 CALIFORNIA GREEN BUILDING CODE (CAL GREEN)
 2016 CALIFORNIA REFERENCE STANDARDS CODE
 2017 MILPITAS MUNICIPAL CODE (MMC)

NFPA 10, STANDARD FOR PORTABLE FIRE EXTINGUISHERS
 NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
 NFPA 14, STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
 NFPA 20, STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION, 2016 EDITION
 NFPA 30, FLAMMABLE AND COMBUSTIBLE LIQUID CODE, 2012 EDITION
 NFPA 72, NATIONAL FIRE ALARM SIGNALING CODE
 NFPA 80, FIRE DOORS AND OTHER OPENING PROTECTIVES, 2016 EDITION
 NFPA 1221, STANDARD FOR THE INSTALLATION, MAINTENANCE, AND USE OF EMERGENCY SERVICES COMMUNICATIONS SYSTEMS
 ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

ACCESSIBILITY REQUIREMENTS GOVERNED BY
 AMERICANS WITH DISABILITIES ACT (ADA), TITLE II, ADAAG
 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
 2016 CALIFORNIA BUILDING CODE, PART 2, VOLUME 1, CHAPTER 11B

CHAPTER 3 USE AND OCCUPANCY CLASSIFICATIONS

310.4 RESIDENTIAL GROUP R-2
 311.3 LOW HAZARD STORAGE GROUP S-2

TYPE OF CONSTRUCTION TYPE VB
 STORIES 1
 PROJECT AREA 5,646 SF

CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREA

BUILDING USE GROUP R
 TYPE OF CONSTRUCTION TYPE V-B ; NON-SPRINKLERED

506.2 ALLOWABLE AREA DETERMINATION
 $A_b = A_t + (N_s \times I_f) \times S_a$
 $A_b = 7000 + (7000 \times .10) \times 2$
 ALLOWABLE AREA = 15,400 SF

506.3.2 MINIMUM FRONTAGE DISTANCE

$W = (L_1 \times W_1 + L_2 \times W_2 + L_3 \times W_3 \dots) / F$
 $W = (80' \times 30' + 124' \times 30' + 8' \times 30' + 32' \times 30' + 64' \times 30' + 32' \times 30' + 8' \times 30' + 124' \times 30' = 114,160 \text{ SF} / 472$
 $W = 241.86$

506.3.3 AMOUNT OF INCREASE

$I_f = (F/P - .25) / W30$
 $I_f = (472/472 - .25) 241.86/30$
 $I_f = .10$

CHAPTER 6 TYPES OF CONSTRUCTION

TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDINGS ELEMENTS (HOURS)

BUILDING ELEMENT	TYPE V-B
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS	
EXTERIOR	0
INTERIOR	0
NONBEARING WALLS AND PARTITIONS	
EXTERIOR	SEE TABLE 602
INTERIOR	0
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0

TABLE 602 FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE

FIRE SEPARATION DISTANCE	1
$X < 5$	1
$5 \leq X < 10$	1
$10 \leq X < 30$	1
$X \geq 30$	0

CHAPTER 9 FIRE PROTECTION SYSTEMS

FIRE PROTECTION SYSTEM: NON-SPRINKLERED
 TRAVEL DISTANCE TO A FIRE EXTINGUISHER 75 FT. MAX.

CHAPTER 10 MEANS OF EGRESS

TABLE 1004.1.2 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

ROOM NAME	OCC. TYPE	AREA	LOAD FACTOR	OCC. LOAD
HALLWAY	CIRCULATION	102 SF	0	
HALLWAY	CIRCULATION	228 SF	0	
DAY RM.	RESIDENTIAL	156 SF	200	1
BREAK RM. KITCHEN	RESIDENTIAL	254 SF	200	2
(E) UTILITY / SERVER	RESIDENTIAL	115 SF	0	
(E) UNISEX WC	RESIDENTIAL	80 SF	0	
ACCESSIBLE WC	RESIDENTIAL	159 SF	0	
FLEX SPACE	RESIDENTIAL	440 SF	200	3
FLEX SPACE	RESIDENTIAL	418 SF	200	3
(E) BOILER RM.	RESIDENTIAL	33 SF	0	
CONFERENCE	RESIDENTIAL	164 SF	15	11
GENERAL PURPOSE ROOM	STORAGE	1032 SF	200	6
APP. BAY	STORAGE	2302 SF	200	12
GENERAL PURPOSE ROOM	STORAGE	171 SF	200	1
		5656 SF		39

CHAPTER 4 PLUMBING CODE: PLUMBING FIXTURES AND FIXTURES AND FIXTURE FITTINGS

TABLE A OCCUPANCY LOAD FACTOR
 TOTAL OCCUPANCY FOR PLUMBING FIXTURES = 50% MEN = 6, 50% WOMEN = 6

OCCUPANCY	AREA	OCC LOAD FACTOR	MAX OCC LOAD
R-2	2,032 SF	200 SF	11
S-2	3,933 SF	5000 SF	1

TABLE 422.1 MINIMUM PLUMBING FACILITIES

TYPE OF OCCUPANCY	WATER CLOSET	URINALS	LAVATORIES
R-2	1 UNISEX	--	1 UNISEX
S-2	1 UNISEX	--	1 UNISEX

422.2 SEPARATE FACILITIES. SEPARATE TOILET FACILITIES SHALL BE PROVIDED FOR EACH SEX. EXCEPTIONS: (1) RESIDENTIAL INSTALLATIONS

EXCEPTION:
 (2) IN OCCUPANCIES WITH A TOTAL OCCUPANT LOAD OF 10 OR LESS, INCLUDING CUSTOMERS AND EMPLOYEES, ONE TOILET FACILITY, DESIGNED FOR USE BY NO MORE THAN ONE PERSON AT A TIME, SHALL BE PERMITTED FOR USE BY BOTH SEXES

SERVICE SINK/LAUNDRY TRAY/OTHERS
 REQUIRED 1 LAUNDRY TRAY OR 1 AUTOMATIC CLOTHES WASHER CONNECTION REQ FOR R-2; 0 PROVIDED
 REQUIRED 1 SERVICE SINK OR LAUNDRY TRAY REQ FOR S-2; 0 PROVIDED

SHEET NOTES

- REFER TO ELECTRICAL DRAWING FOR LOCATION OF EMERGENCY LIGHTING / CARBON MONOXIDE & SMOKE DETECTORS
- REFER TO A-003 / A-004 FOR (N) SIGN TYPES.
- REFER TO J11A-003 FOR TYP. SIGN MOUNTING HEIGHTS

SIGNAGE SCHEDULE - FIRST FLOOR

SIGN NO.	SIGNAGE INFO	DETAIL REFERENCE
E-EX RT	EMERGENCY EXIT ROUTE	J17/A-003
EX-02	NO SMOKING SIGN - EXTERIOR	A1/A-004
EX-05	ACCESSIBLE ENTRANCE SIGN	E1/A-003
S-EXIT	EXIT SIGNAGE	A5/A-003
S-GN1	ACCESSIBLE UNISEX TOILET ROOM SIGN	A9/A-003
S-GN2	UNISEX TOILET ROOM IDENTIFICATION SIGN	J1/A-004
S-NS	NO SMOKING SIGN - INDOOR	E1/A-004
S-RM	PERMANENT ROOM IDENTIFICATION SIGN	A1/A-004
S-WC	RESTROOM SIGN	A13/A-003

KEY LEGEND

- ROOM NUMBER
- AREA DIVIDED BY LOAD FACTOR
- MAX. OCCUPANT LOAD
- OCCUPANT EXIT LOAD
- 1-HR FIRE BARRIER
- PATH OF EGRESS
- S-2 OCCUPANCY: SF
- R-2 OCCUPANCY: SF
- NOT IN SCOPE
- ENTRANCE
- (FE) FIRE EXTINGUISHER
- (N) SIGN, REFER TO A-003 / A-004

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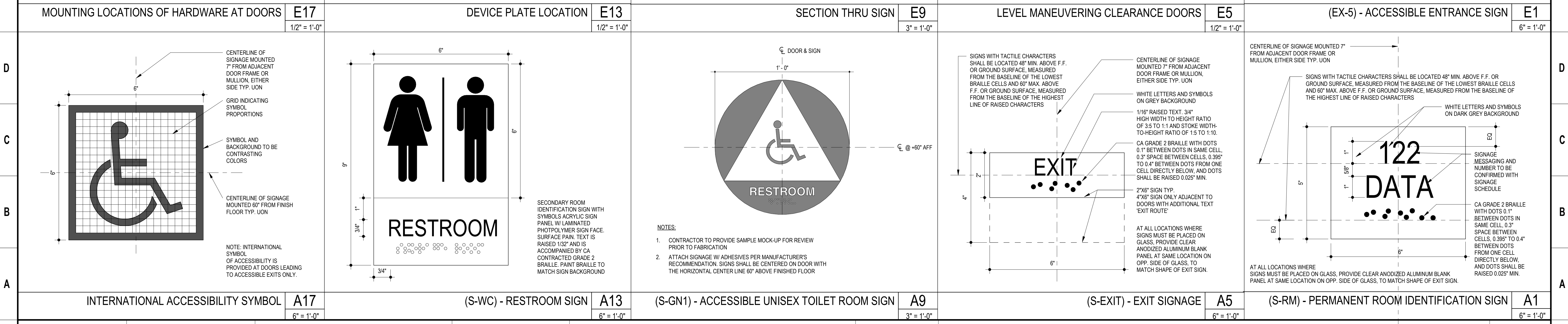
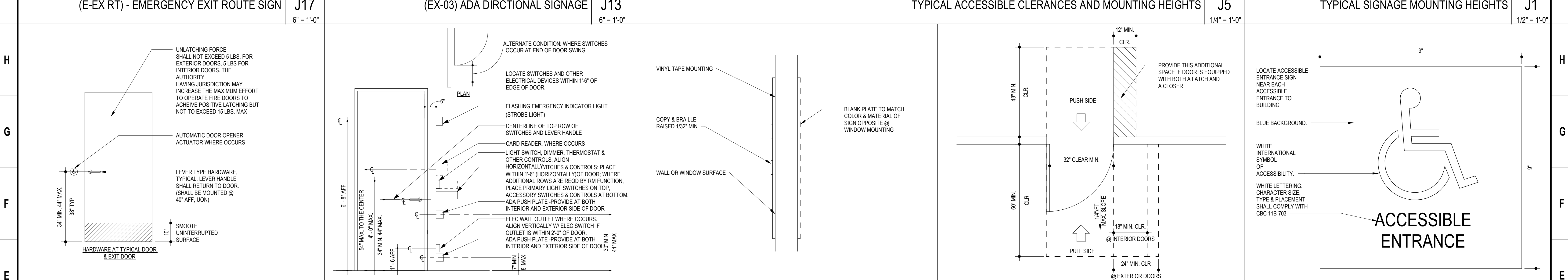
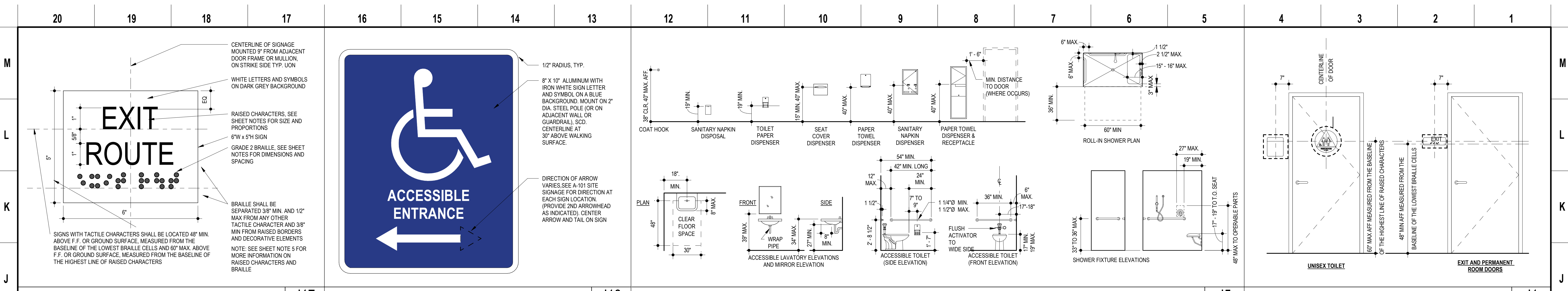
CITY OF MILPITAS FIRE STATION NO.2 TEMP. STATION
 1126 YOSEMITE DRIVE, MILPITAS, CA

CODE DIAGRAM / MEANS OF EGRESS

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 MICHAEL SILVEIRA, P.E., CIP MANAGER

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 SCALE: AS NOTED



Architect of Record SHAH KAWASAKI ARCHITECTS 570 10th Street, Suite 201 Oakland, CA 94607 Consultant	DESIGNER STAMP: 	RECORD DRAWINGS: DESIGNER: _____ DATE: _____ PUBLIC WORKS INSPECTOR: _____ DATE: _____ UTILITY/FACILITY DEPT. HEAD: _____ DATE: _____ PROJECT ENGINEER: _____ DATE: _____ PUBLIC IMPROVEMENTS INITIALLY ACCEPTED BY THE CITY COUNCIL ON: _____ RES. NO. _____		REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>ISSUE DESCRIPTION</th> <th>ENGR. APR.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>100%</td> <td>DESIGN DEVELOPMENT</td> <td></td> <td>09/27/2019</td> </tr> <tr> <td></td> <td>ISSUED FOR PERMIT</td> <td></td> <td>10/02/2019</td> </tr> <tr> <td></td> <td>RE-ISSUE FOR PERMIT</td> <td></td> <td>10/24/2019</td> </tr> </tbody> </table>		NO.	ISSUE DESCRIPTION	ENGR. APR.	DATE	100%	DESIGN DEVELOPMENT		09/27/2019		ISSUED FOR PERMIT		10/02/2019		RE-ISSUE FOR PERMIT		10/24/2019		City Project Number: 3447 REC. DWG NO. _____ SCALE: AS NOTED Drawing No. A-003 Sheet No. _____ of _____
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ABBREVIATIONS

<	ANGLE (DEGREES)	GA	GAUGE	R&S	ROD & SHELF
#	POUND / NUMBER	GALV	GALVANIZED	RAD	RADIUS
&	AND	GB	GRAB BAR	RB	RUBBER BASE / RESILIENT BASE
(E)	EXISTING	GB-24	24" LONG GRAB BAR	RCP	REFLECTED CEILING PLAN
(N)	NEW	GB-36	36" LONG GRAB BAR	RDWD	REDWOOD
@	AT	GB-42	42" LONG GRAB BAR	REF	REFERENCE
AB	ANCHOR BOLT	GC	GENERAL CONTRACTOR	REQD	REQUIRED
ACOUS	ACOUSTICAL	GFT	GROUND FAULT INTERRUPT	REV	REVISION
ADD	ADDENDUM	GL	GLASS / GLAZING	RM	ROOM
ADDL	ADDITION	GND	GROUND	RO	ROUGH OPENING
ADJ	ADJACENT / ADJUSTABLE	GSM	GALVANIZED SHEET METAL	RWL	RAIN WATER LEADER
AFF	ABOVE FINISH FLOOR	GWB	GYPSON WALLBOARD	SAD	SEE ARCHITECTURAL DRAWINGS
ALT	ALTERNATE	GYP	GYPSON	SASM	SELF ADHERING SHEET MEMBRANE
AND	AND	H/C	HANDICAPPED	SCD	SEE CIVIL DRAWINGS
APPROX	APPROXIMATELY	HDR	HEADER	SCHED	SCHEDULE
ARCH	ARCHITECTURAL	HDWD	HARDWOOD	SCW	SOLID CORE WOOD
ASPH	ASPHALT	HDWE	HARDWARE	SED	SEE ELECTRICAL DRAWINGS
BD	BOARD	HM	HOLLOW METAL	SF, SQ FT	SQUARE FEET
BIT	BETWEEN	HORIZ	HORIZONTAL	SHI	SHEET
BEV	BEVELED	HT	HEIGHT	SHM	SIMILAR
BLDG	BUILDING	ID	INSIDE DIAMETER / DIMENSION	SMD	SEE MECHANICAL DRAWINGS
BLKG	BLOCKING	IN	INCH	SMS	SHEET METAL SCREW
BM	BEAM	INCAN	INCANDESCENT	SPD	SEE PLUMBING DRAWINGS
BO	BOTTOM (OF)	INFO	INFORMATION	SPEC	SPECIFICATION
CB	CATCH BASIN	INT	INTERIOR	SPKR	SPEAKER
CEM	CEMENT	INV	INVERT	SQ	SQUARE
CER	CERAMIC	J-BOX	JUNCTION BOX	SSD	SEE STRUCTURAL DRAWINGS
CFMF	COLD FORMED METAL FRAMING	KO	KNOCKOUT	SSM	SOLID SURFACE MATERIAL
CG	CORNER GUARD	KP	KICK PLATE	SS	STAINLESS STEEL
CIP	CAST-IN-PLACE	LED	LIGHT EMITTING DIODE (LIGHT	STC	SOUND TRANSMISSION CLASS
CL	CENTER LINE	FIXTURE)		STD	STANDARD & SEE TELECOM DRAWINGS
CLG	CEILING	LIN	LIVE LOAD	STL	STEEL
CLR	CLEAR	LL	LOW POINT	STOR	STORAGE
CMU	CONCRETE MASONRY UNIT	LP	LIGHT	STRUCT	STRUCTURE / STRUCTURAL
CNTR	COUNTERSINK	LT	LIGHTING	STS	SELF-TAPPING SCREW
d	PENNY (NAILS)	LTG	LIGHTING	SURR	SURROUND
DEG	DEGREES	LVR	LOUVER	SUSP	SUSPENDED
DEMO	DEMOLITION	LWC	LIGHTWEIGHT CONCRETE	T&B	TOP & BOTTOM
DIA	DIAMETER	M&S	MIRROR & SHELF	T&G	TONGUE & GROOVE
DIM	DIMENSION	MAS	MASONRY	THRU	THROUGH
DISP	DISPENSER / DISPOSAL	MATL	MATERIAL	TO	TOP OF
DN	DOWN	MAX	MAXIMUM	TOB	TOP OF BEAM
DTL	DETAIL	MECH	MECHANICAL	TOC	TOP OF CONCRETE
DWG(S)	DRAWING(S)	MFR	MANUFACTURER	TOD	TOP OF DECK
(E)	EXISTING	MO	MASONRY OPENING	TOP	TOP OF PLATE OR PARAPET
EA	EACH	MTD	MOUNTED	TOW	TOP OF WALL
EB	EXPOSED BOLT	MISC	MISCELLANEOUS	TPD	TOILET PAPER DISPENSER
EL	ELEVATION	MO	MASONRY OPENING	TYP	TYPICAL
ELEC	ELECTRICAL	MTL	METAL	UBC	UNIFORM BUILDING CODE
EMER	EMERGENCY	MUL	MULLION	UL	UNDERWRITERS LABORATORIES INC.
ENCL	ENCLOSED / ENCLOSURE	(N)	NEW	UNF	UNFINISHED
ENTR	ENTRANCE	N/A	NOT APPLICABLE	UON	UNLESS OTHERWISE NOTED
EP	ELECTRIC PANEL BOARD	NEC	NECESSARY	UTIL	UTILITY
EPT	EXTERIOR PAINT	NIC	NOT IN CONTRACT	V	VOLTS
EQ	EQUAL	NO	NUMBER	VAR	VARIABLES
EQUIP	EQUIPMENT	NOM	NOMINAL	VB	VINYL BASE
ETC	ETCETERA	NTS	NOT TO SCALE	VEN	VENEER
EXT	EXTERIOR	OA	OVERALL	VERT	VERTICAL
EXTR	EXTRUDED	OC	ON CENTER	VEST	VESTIBULE
F/F	FACE TO FACE	OD	OUTSIDE DIAMETER / DIMENSION	VG	VERTICAL GRAIN
FA	FIRE ALARM	OF	OWNER FURNISHED CONTRACTOR	VIF	VERIFY IN FIELD
FAB	FABRICATE	OFI	OWNER FURNISHED OWNER	VM	VENDING MACHINE
FAP	FIRE ALARM PANEL	OH	OPPOSITE HAND	VP	VENEER PLASTER
FAP	FIRE ALARM PANEL	OPNG	OPENING	W/	WITH
FB	FLAT BAR	OSB	ORIENTED STRAND BOARD	W/O	WITHOUT
FD	FLOOR DRAIN	P.L.	PROPERTY LINE	WC	WATER CLOSET
FE	FIRE EXTINGUISHER	PC	PRECAST CONCRETE	WD	WOOD
FF	FINISH FLOOR	PERF	PERFORATED	WF	WIDE FLANGE (STRUCTURAL STEEL)
FIC	FURNISHED & INSTALLED BY CONTRACTOR	PL	PLATE	WFO	WINDOW
FIN	FINISHED	PLAS	PLASTER	WO	WHERE OCCURS
FIO	FURNISHED & INSTALLED BY OWNER	PLY	PLYWOOD	WP	WORK POINT / WATERPROOF
FIXT	FIXTURE	PR	PAIR	WR	WATER RESISTANT
FL	FLOOR LINE	PSI	POUNDS PER SQUARE INCH	WSCT	WAINSCOT
FLASH	FLASHING	PT	POINT / PRESSURE TREATED	X	BY
FLR	FLOOR	PVDF	POLYVINYLIDENE FLUORIDE		
FLUOR	FLUORESCENT				
FO	FACE OF				
FOB	FACE OF BUILDING				
FOC	FACE OF CONCRETE				
FOF	FACE OF FINISH				
FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR				
FOM	FACE OF MASONRY				
FOS	FACE OF STUD				
FRMG	FRAMING				
FT	FOOT / FEET				
FTG	FOOTING				

SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION

OCTOBER 24, 2019 PROJECT DESCRIPTION

THIS TENANT IMPROVEMENT IS INTENDED TO ALLOW THE MILPITAS FIRE STATION NO. 2 CREW TO OPERATE WHILE THEIR CURRENT STATION (LOCATED AT 1263 YOSEMITE DR.) IS REPLACED WITH NEW FACILITIES. THIS EXISTING BUILDING IS A SINGLE-STORY AND THE SCOPE OF THE T.I. ENCOMPASSES THE NORTH-MOST HALF OF THE BUILDING TOTALING 5646 SQ. FT. RENOVATIONS INCLUDE AN UPDATED KITCHEN, REPLACING LIMITED WALLS / DOORS, AND INSTALLING A NEW ACCESSIBLE BATHROOM. THIS BUILDING IS LOCATED AT THE SOUTH-WEST CORNER OF YOSEMITE DR. AND SINCLAIR FRONTAGE RD.

PLEASE REFER TO THE FOLLOWING DOCUMENTS FOR SUPPLEMENTAL INFORMATION REGARDING THE SCOPE OF WORK:
 * SHAH KAWASAKI ARCHITECTS CONSTRUCTION DOCUMENTS (OCTOBER 24, 2019)

ADDITIONAL DETAILED INFORMATION TO THE DRAWINGS

WOOD, PLASTICS AND COMPOSITES: COUNTERTOPS, CABINETS, SHELVING AND TRIM

A. ALL CABINETS: WOOD CORE BY COLUMBIA FOREST PRODUCTS, PURE BOND CLASSIC CORE. P-LAM FINISH AT OUTSIDE AND INSIDE FACES. 3MM PVC MATCHING EDGE BANDING.

B. EUROPEAN HEAVY-DUTY CONCEALED HINGES, STAINLESS STEEL WIRE PULLS

C. SOLID SURFACE COUNTERTOPS: CORIAN (RESTROOM COUNTERS)

OPENINGS

A. WOOD DOORS:
 1. SOLID CORE VENEER WOOD FLUSH DOORS WITH ALUMINUM FRAMES, TYP. BIRCH, QUARTER SAWN WOOD VENEER.

2. FIRE-RATED SOLID CORE WOOD VENEER, PAINT-GRADE OR HOLLOW METAL DOORS WHERE REQUIRED BY CODE. PROVIDE FIRE-RATED GLAZING WHERE GLAZING IS LOCATED AT RATED DOOR/PARTITION.

B. ACCESS DOORS AND PANELS: METAL PANELS AT WALL, STAINLESS PANELS AT WET AREAS, GFRC LAY-IN PANELS AT CEILINGS

C. DOOR HARDWARE: DOOR HARDWARE FOR NEW DOORS SHALL BE SELECTED TO COMPLY WITH ADA AND CBC REQUIREMENTS.
 1. ASSUME BRUSHED CHROME FINISH AND SCHLAGE HEAVY-DUTY GRADE LEVER SETS.
 2. DOOR HANDLE: DORMAKABA L1011, SIMPLEX HEAVY DUTY MECHANICAL PUSHBUTTON LEVER LOCK FOR DOOR 102A
 3. DOOR CLOSER: LCN 4040XP SERIES CLOSER FOR SCHEDULED DOORS, OR APPROVED EQUAL

FINISHES

A. SUSPENSION SYSTEMS: SUSPENDED CEILING FRAMING FOR GYPSON BOARD CEILINGS

B. GYPSON BOARD: TYPICAL 5/8" GYP BOARD, FIRE RATED WHERE REQUIRED. QUIETROCK SOUND REDUCING GYPSON AT DORM ROOMS, EXERCISE ROOM AND WHERE SCHEDULED. CEMENT BACKER BOARD AT SHOWER WALLS AND MOISTURE AND IMPACT RESISTANT GYP. BOARD WHERE SCHEDULED, REQUIRED.

C. WET AREA SHEET LINOLEUM: FORBO, SAFESTEP - AQUA, COLOR: 180092 ELEPHANT LRV 17. 2MM THICK SHEET. USE ACC06 COVE STICK (OR EQUIVALENT) TO FORM COVERED BASE. FORBO SAFESTEP SEALANTS AND INSTALLATION ACCESSORIES AS REQUIRED.

D. CARPET FLOORING: MATCH EXISTING CARPET FOR ALL PATCHES IN DORM AREA

E. ACOUSTICAL PANEL CEILINGS: PROVIDE ACT LAY-IN CEILING PANELS & GRID (ARMSTRONG SILHOUETTE XL 916" GRID W/ ULTIMA LAY-IN, TEGULAR MODEL 1902 OR EQUAL).

F. RESILIENT BASE: ROPPE PINNACLE 4" TALL RESILIENT BASE.

G. ACOUSTIC INSULATION AND SEALANTS: BLACK FACED RIGID BOARD FOR INSTALLATION ABOVE WOOD CEILINGS AND SCRIM. ACOUSTICAL SEALANTS AND ACCESSORIES AS REQUIRED. ALL OTHER INSULATION LISTED IN DIVISION 07

H. PAINTING AND COATING: THROUGHOUT AS REQUIRED AND SCHEDULED. HIGH PERFORMANCE COATING AT EXPOSED METALS.

SPECIALTIES

A. SIGNAGE: PROVIDE ALL CODE-REQUIRED, TACTILE PERMANENT ROOM IDENTIFICATION SIGNAGE, INCLUDING TOILET ROOMS. PROVIDE ALL CODE-REQUIRED, TACTILE WAY FINDING AND EMERGENCY EXIT SIGNAGE

B. PROTECTIVE WALL COVERINGS AND CORNER GUARDS:
 1. PLASTIC WALL PANELS: ACROVYN .07" THICK FINISH OVER GYPSON BOARD WHERE SCHEDULED
 2. STAINLESS STEEL CORNER GUARDS: 3.5"x3.5"x4" TYP. WHERE SHOWN

C. TOILET ACCESSORIES: TOILET ROOM ACCESSORIES AND HARDWARE SHALL BE STAINLESS STEEL AND VANDAL-RESISTANT AND SHALL COMPLY WITH ADA AND CBC.

D. SHOWER ENCLOSURES: CUSTOM CORIAN SOLID SURFACE SHOWER PANS WITH MATCHING WALL PANELS, SEAMLESS (HEAT WELDED). ADA ROLL-IN SHOWERS IN (1) RESTROOMS.

E. EXTERIOR TRUNCATED DOME DETECTABLE WARNING SURFACE, TO BE ADA COMPLIANT

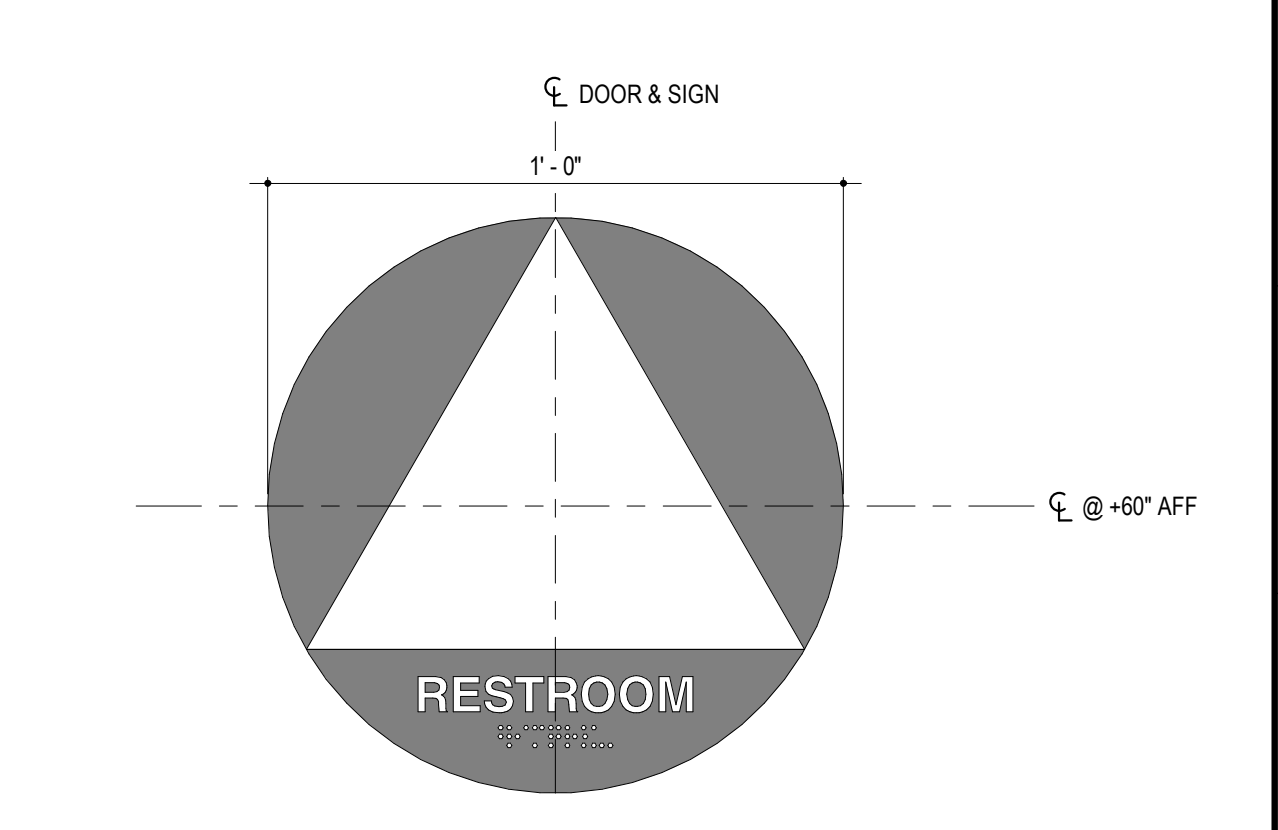
F. BATHROOM MIRROR
 1. 1/4" THICK FRAMELESS MIRROR, ANNEALED, 3" TALL X 4' WIDE FROM LINCOLN GLASS AND MIRROR, OR APPROVED EQUAL.
 2. INSTALL MIRROR ON NON-PAINTED SURFACE USING ADHESIVE PALMER MIRRO-MASTIC, FOLLOW MANUFACTURER'S INSTALLATION DIRECTION.
 3. USE ALUMINUM J MOLD TO SUPPORT MIRROR DURING INSTALLATION AS STATED IN PALMER MIRRO-MASTIC INSTALLATION INSTRUCTIONS.

G. ADA SHOWER SEAT: USE BOBRICK SOLID PHENOLIC FOLDING SHOW SEAT, OR APPROVED EQUAL. CONFIRM CODE COMPLIANCE PRIOR TO PURCHASING/INSTALLATION.

FURNISHINGS

A. SOLID SURFACING COUNTERTOPS: CORIAN COUNTERTOPS AT NEW ACCESSIBLE RESTROOM SINK

END OF BASE SCOPE

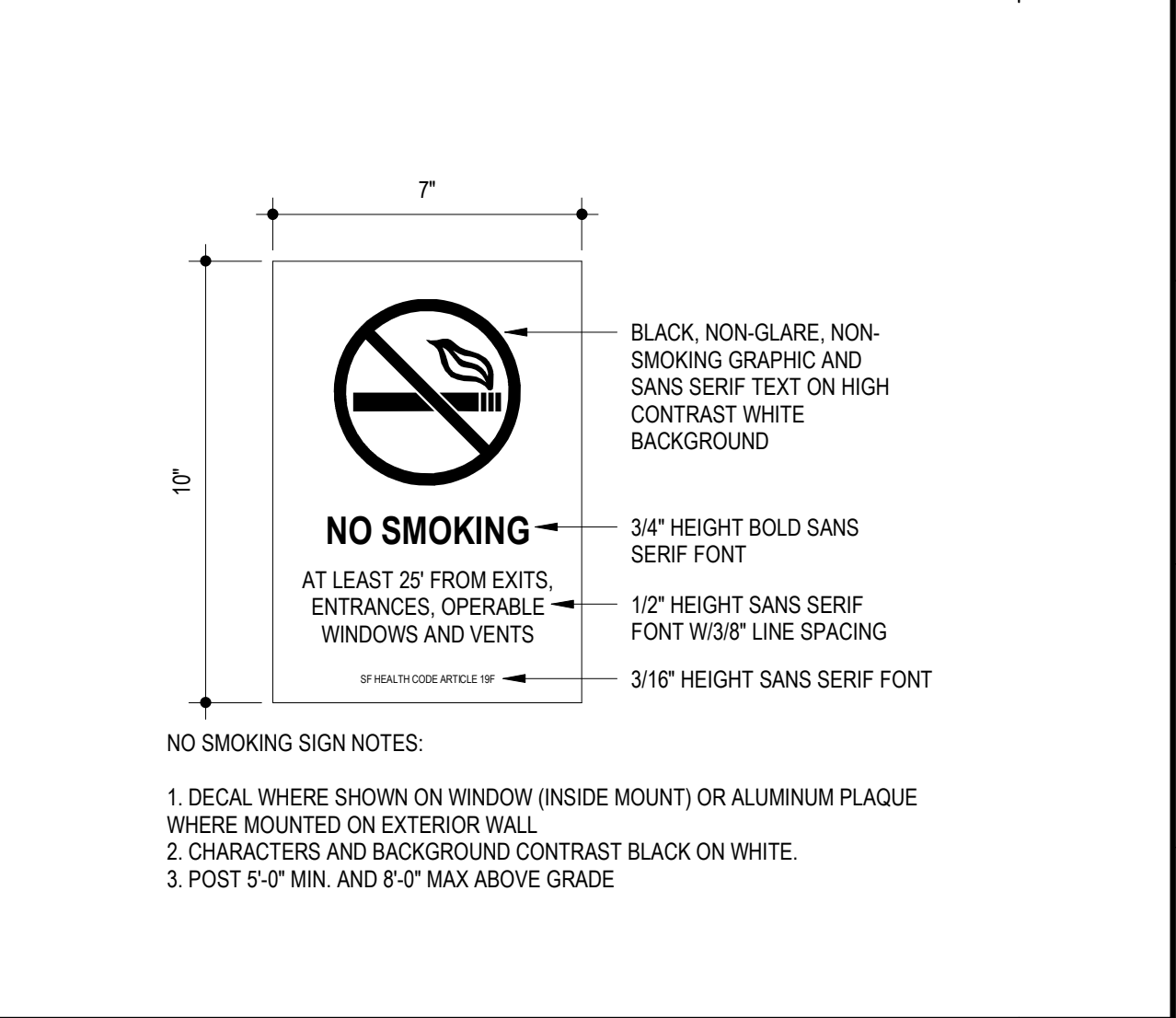


- NOTES:**
- CONTRACTOR TO PROVIDE SAMPLE MOCK-UP FOR REVIEW PRIOR TO FABRICATION
 - ATTACH SIGNAGE W/ ADHESIVES PER MANUFACTURER'S RECOMMENDATION. SIGNS SHALL BE CENTERED ON DOOR WITH THE HORIZONTAL CENTER LINE 60" ABOVE FINISHED FLOOR

(S-GN2) - UNISEX TOILET ROOM IDENTIFICATION SIGN J1
3" = 1'-0"



(S-NS) - NO SMOKING SIGN - INDOOR E1
6" = 1'-0"



(EX-02) NO SMOKING SIGN A1
3" = 1'-0"

Architect of Record SHAH KAWASAKI ARCHITECTS 570 10th Street, Suite 201 Oakland, CA 94607 Consultant	DESIGNER STAMP: 	RECORD DRAWINGS: DESIGNER: _____ DATE: _____ DRAWN BY: _____ DATE: _____ PUBLIC WORKS INSPECTOR: _____ DATE: _____ CHECKED BY: _____ DATE: _____ UTILITY/FACILITY DEPT. HEAD: _____ DATE: _____ DESIGNED BY: _____ DATE: _____ PROJECT ENGINEER: _____ DATE: _____ PUBLIC IMPROVEMENTS INITIALLY ACCEPTED BY THE CITY COUNCIL ON: _____ RES. NO. _____		REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>ISSUE DESCRIPTION</th> <th>ENGR. APR.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>100%</td> <td>DESIGN DEVELOPMENT</td> <td></td> <td>09/27/2019</td> </tr> <tr> <td></td> <td>ISSUED FOR PERMIT</td> <td></td> <td>10/09/2019</td> </tr> <tr> <td></td> <td>RE-ISSUE FOR PERMIT</td> <td></td> <td>10/24/2019</td> </tr> <tr> <td></td> <td>RESPONSE TO CITY PERMIT</td> <td></td> <td>11/11/2019</td> </tr> </tbody> </table>		NO.	ISSUE DESCRIPTION	ENGR. APR.	DATE	100%	DESIGN DEVELOPMENT		09/27/2019		ISSUED FOR PERMIT		10/09/2019		RE-ISSUE FOR PERMIT		10/24/2019		RESPONSE TO CITY PERMIT		11/11/2019		City Project Number: 3447 REC. DWG NO.
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CITY OF MILPITAS FIRE STATION NO.2 TEMP. STATION 1126 YOSEMITE DRIVE, MILPITAS, CA		Drawing Title CODE DETAILS / NARRATIVE SPECIFICATIONS	NOTE: If this drawing is not 36"x24" it has been revised from its original size and the scales noted on drawing/details are no longer applicable. © 2019 Shah Kawasaki Architects																								
RECOMMENDED FOR BIDDING BY: _____ DATE: _____ MICHAEL SILVEIRA, P.E., CIP MANAGER		Drawing No. A-004 Sheet No. _____ of _____																									

Cat® XQ125 Rental Generator Set



Standby 110 kW
Prime 100 kW
60 Hz 1800 rpm 480V
60 Hz 1800 rpm 600V

Specifications table with columns: Frequency, Voltage, Standby kW (kVA), Prime kW (kVA), Speed rpm. Includes 480V 60 Hz Rating and 600V 60 Hz Rating (Optional).

Cat® CA4 ACERT™ Diesel Engine table with columns: Configuration, Bore, Stroke, Displacement, Apprator, Compression Ratio, Engine rpm, Governor Type. Includes Imperial (English) units.

Cat® XQ125 Rental Generator Set



Features & Benefits
Fuel/Emissions Strategy
Design Criteria
Single-source Supplier
Cat CA4 ACERT Diesel Engine
Cat Clean Emissions Module (CEM)
Diesel Exhaust Fluid (DEF) System
Cat Generator
Cat Integrated Voltage Regulator (Cat VR)

EMCP 4.2B Control Panel

Electronic control panel provides power metering, protective relaying, engine and generator parameter viewing, and expanded AC metering.

Sound-attenuated Enclosure

Provides excellent weather protection and allows for a quiet package operation with less than 66 dBA sound levels at full load.

Fuel System

Provides 24-hour runtime @ 75% prime. Meets UL 142, UL 601 requirements with factory-installed, optional vent kit.

Reduced Environmental Impact

110% spill containment of onboard engine fluids.

Cooling System

Provides 50°C ambient capability @ full rating. Coolant low-level shutdown switch.

Charging System

Charging alternator: 12V-100A, heavy duty with integral regulator and belt guards.

Asset Monitoring and Management

Product Link™ Generation (PLG) hardware provides UL 1446 Recognized Class H insulation equipment monitoring via cellular network.

Cat® XQ125 Rental Generator Set



Factory-installed Standard Equipment
Engine
Engine Air Inlet
Cat CEM
DEF System
Cat CEM
DEF System
Fuel System
Cooling System
Charging System
Asset Monitoring and Management

Sound-attenuated Enclosure

Provides excellent weather protection. Offers a quiet package with 66 dBA sound levels. Rugged, corrosion-resistant construction.

Fuel System

150 gal (568 L) double-wall fuel tank. Fuel fill located in an isolated enclosed space away from the engine compartment.

Cooling System

Provides 50°C ambient capability @ full rating. Integral regulator and belt guards.

Charging System

One 110V shore power connection for powering engine block heater and generator space heater (optional).

Cat® XQ125 Rental Generator Set



Factory-installed Optional Equipment
Vent Kit
Trailer Electric
Trailer Hydraulic
Battery Charger
Hitches

Generator Space Heater

110 VAC Anti-condensation heater. 208 Volt locking NEMA receptacles, quantity 2.

Permanent Magnet Generator (PMG)

Adds independent source of excitation to generator.

NEMA Receptacles

208 Volt locking NEMA receptacles, quantity 2.

600V Generator

Includes 600V generator and 4-position rotary switch for easy selection of desired output.

Voltage Regulation

Available voltages include: 3-phase (600/347 Volt, 480/277 Volt, 208/120 Volt).

Cat® XQ125 Rental Generator Set



Technical Data
Cat Generator
Frame size
Pitch
No. of poles
No. of leads
Excitation
Number of bearings
Enclosure
Alignment
Over-speed capability - % of rated
Voltage regulator
Voltage regulation (adjustable to compensate for engine speed drop and line loss)
Wave form deviation
Telephone Influence Factor (TIF)
Harmonic Distortion (THD)

Technical Data table with columns: Cat Generator, Units, 60 Hz - Standby, 60 Hz - Prime. Includes performance specifications for fuel system, DEF system, and cooling system.

Cat Generator Set Performance Specification

Performance Specification table with columns: Units, 60 Hz - Standby, 60 Hz - Prime. Includes lubricating system, fuel system, DEF system, and cooling system details.

Cat® XQ125 Rental Generator Set

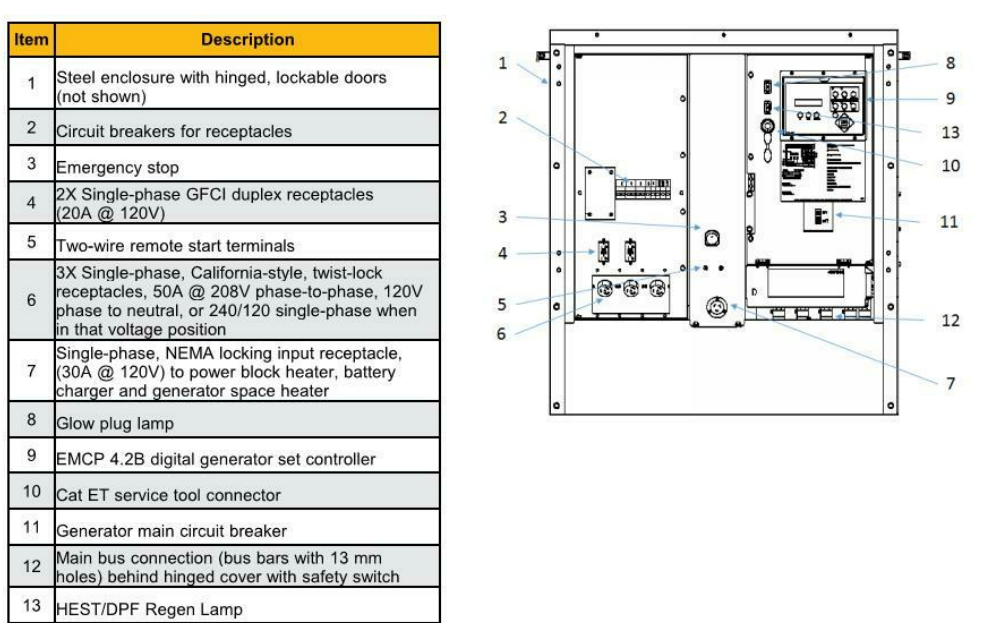
Technical Data (continued)

Dimensions and Weights table with columns: Model, Length mm (in), Width mm (in), Height mm (in), With Lube Oil & Coolant Kg (lb), With all fluids Kg (lb). Includes XQ125, XQ125 with trailer (electric brakes), and XQ125 with trailer (hydraulic brakes).

Cat® XQ125 Rental Generator Set



Control Panel and Power Distribution Layout



Item Description table with 2 columns: Item, Description. Lists components like sheet enclosure, circuit breakers, emergency stop, receptacles, terminals, NEMA locking input receptacle, glow plug lamp, EMCP 4.2B digital generator set controller, Cat ET service tool connector, generator main circuit breaker, main bus connection, and HEST/DPF Regen Lamp.

Standby - Output available with varying load for the duration of the interruption of the normal source power. Average power output is 70% of the standby power rating. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

Prime - Output available with varying load for an unlimited time. Average power output is 70% of the prime power rating. Typical peak demand is 100% of prime rated kW with 10% overload capability in emergency use for a maximum of 1 hour in 12. Overload operation cannot exceed 50 hours per year. Prime power in accordance with ISO3046. Prime amperage shown indicates ambient temperature at 100% load which results in a coolant tank temperature below the alarm temperature.

Additional ratings may be available for specific customer requirements. Contact your Caterpillar representative for details. For information regarding low sulfur fuel and biodiesel capability, please consult your Cat dealer.

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Architect of Record: SHAH KAWASAKI ARCHITECTS. 570 10th Street, Suite 201, Oakland, CA 94607. Designer Stamp: PHILIP SHENG-TUNG CHEN, LICENSED ARCHITECT, STATE OF CALIFORNIA, No. C 29075.

RECORD DRAWINGS: DESIGNER, DATE, PUBLIC WORKS INSPECTOR, DATE, UTILITY/FACILITY DEPT. HEAD, DATE, PROJECT ENGINEER, DATE, PUBLIC IMPROVEMENTS INITIALLY ACCEPTED BY THE CITY COUNCIL ON, RES. NO.

REVISIONS table with columns: NO., ISSUE DESCRIPTION, ENGR. APR., DATE. Includes entries for ISSUED FOR PERMIT and RE-ISSUE FOR PERMIT.

CITY OF MILPITAS FIRE STATION NO.2 TEMP. STATION. 1126 YOSEMITE DRIVE, MILPITAS, CA. XQ 125 CUTSHEETS. RECOMMENDED FOR BIDDING BY: MICHAEL SILVEIRA, P.E., CIP MANAGER. City Project Number: 3447. REC. DWG NO. SCALE: AS NOTED. Drawing No. A-005. Sheet No. of.

System No. C-AJ-1575

ANSI/UL 1479 (ASTM E814)	CANULC S115
F Rating — 2 and 3 Hr (See Item 4B)	F Rating — 2 and 3 Hr (See Item 4B)
T Rating — 0 Hr	FT Rating — 0 Hr
W Rating — Class 1 (See Item 4)	FH Rating — 2 and 3 Hr (See Item 4B)
	FTH Rating — 0 Hr

1. Floor or Wall Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow core Precast Concrete Units*. Max diam of opening is 30-7/8 in. (784 mm) when concrete floor or wall is used and max 7 in. (178 mm) when precast concrete units are used.

2. Steel Sleeve — See Table in Item 4B for when sleeve is required. Also not required for hollow core precast concrete floors. Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max of 8 in. (203 mm) above top of floor or beyond either surface of wall. As an alternate, in floors only, min 26 gauge galvanized steel sleeve provided with a min. 26 gauge galvanized steel square flange spot welded to the bottom of the sleeve and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The steel sleeve is to be cast in place and may extend a max of 2 in. (51 mm) above the top surface of the concrete floor, except that when sleeve is greater than nom 13 in. (330 mm) diam, sleeve shall be installed flush with both surfaces of floor.

3. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening or sleeve shall be min 0 in. (point contact). See Table in Item 4B for max annular space. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
 C. Conduit — Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.
 D. Conduit — Nom 4 in. (102 mm) diam (or smaller) electrical metallic tubing (EMT).
 E. Copper Tubing — Nom 8 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
 F. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.

Hilti Firestop Systems | Page: 1 of 2

System No. C-AJ-1575

4. Firestop System — The firestop system shall consist of the following:

A. Packing Material — (Not Shown) — Min 1 in. (25 mm) thickness of polyethylene backed rod, mineral wool batt or glass fiber insulation firmly packed into opening as a permanent form. Packing material to be recessed from top or bottom surface of floors/sleeve or from both surfaces of wall/sleeve to accommodate the required thickness of fill material (Item 4B). Packing material is required as specified in Table below.

A1. Forming Materials* — (Optional, Not Shown) As an alternate to Item 4A, min 1 in. (25 mm) thickness of forming material to be foamed into the opening as a permanent form. Forming material to be recessed from top or bottom surface of floors/sleeve or from both surfaces of wall/sleeve to accommodate the required thickness of fill material (Item 4B).

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — CF812 or CF-AS CP Foam Sealant

A2. Packing Material — (Not Shown) — For W Rating, floors only, min 4 in. thick, min 1/2 (64 kg/m³) mineral batt insulation tightly packed into sleeve and recessed from top of sleeve to accommodate the required thickness of fill material.

B. Fill, Void or Cavity Materials* — Sealant — Applied to fill the annular space flush with top or bottom surface of floors/sleeve. In hollow core precast concrete floors, fill material to be installed flush with the bottom of the floor. Fill material may optionally be installed flush with the top of the assembly. In wall assemblies, fill material to be installed symmetrically on both sides of wall or floor, flush with wall/sleeve or floor surface. In wall assemblies, an additional bead of fill material shall be applied at the point contact location between penetrant and sleeve or between penetrant and concrete, at top surface of floors/sleeve and at both surfaces of wall/sleeve. The bead shall be min 1/2 in. (13 mm) diam and shall extend over the point contact location to the 1/4 in. (6 mm) annular space. For W Rating, fill material to be installed flush with top of sleeve only and an additional min 1/2 in. (13 mm) bead of sealant shall be applied at the sleeve/concrete interface on the top surface of the floor. The min required fill material thickness and the location of the sealant at top or bottom of floor opening are dependent upon a number of parameters, as shown in the table below.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

Note: W Rating applies only when FS-ONE MAX Intumescent Sealant is used.

Min Floor or Wall Thick. (in.)	Nom Diam of Copper Pipe or Tube (in.)	Nom Diam of Steel/Iron Pipe or Conduit (in.)	Max Annular Space (in.)	Min Sealant Thickness (in.)	Sealant Flush with Top or Bottom	Packing Material	F Rating Hr
2-1/2 (64)	1/2 - 4 (13 - 102)	1/2 - 30 (13 - 762)	7/8 (22)	1/2 (13)	Top	No	No 2
2-1/2 (64)	1/2 - 4 (13 - 102)	1/2 - 8 (13 - 203)	2-7/8 (73)	1 (25)	Top	Yes	No 2
2-1/2 (64)	1/2 - 4 (13 - 102)	1/2 - 8 (13 - 203)	1-7/8 (48)	1/2 (13)	Top	Yes	No 2
2-1/2 (64)	1/2 - 4 (13 - 102)	1/2 - 12 (13 - 305)	7/8 (22)	1 (25)	Bottom	Yes	No 2
2-1/2 (64)	1/2 - 4 (13 - 102)	1/2 - 8 (13 - 203)	2-7/8 (73)	1 (25)	Top	Optional	Yes 2
2-1/2 (64)	1/2 - 6 (13 - 152)	1/2 - 30 (13 - 762)	2-7/8 (73)	1 (25)	Top	Yes	Yes 2
4-1/2 (114)	1/2 - 4 (13 - 102)	1/2 - 10 (13 - 254)	3-1/4 (83)	1 (25)	Top or Bottom	No	No 3
4-1/2 (114)	1/2 - 4 (13 - 102)	1/2 - 30 (13 - 762)	7/8 (22)	1 (25)	Top	No	No 3
4-1/2 (114)	1/2 - 4 (13 - 102)	1/2 - 8 (13 - 203)	1-7/8 (48)	1/2 (13)	Bottom	No	No 2

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems | Page: 2 of 2

UL/CUL SYSTEM NO. W-J-3198

CABLE BUNDLE THROUGH CONCRETE OR BLOCK WALL ASSEMBLY

F-RATING = 2-HR.
 T-RATING = 3/4-HR. OR 1-HR.
 L-RATING AT AMBIENT = 1.3 OR 2.8 CFM (SEE TABLE BELOW)
 L-RATING AT 400°F = 1.1 OR 1.2 CFM (SEE TABLE BELOW)

Hilti Firestop Systems | Page: 1 of 2

UL/CUL SYSTEM NO. W-J-3198

CABLE BUNDLE THROUGH CONCRETE OR BLOCK WALL ASSEMBLY

F-RATING = 2-HR.
 T-RATING = 3/4-HR. OR 1-HR.
 L-RATING AT AMBIENT = 1.3 OR 2.8 CFM (SEE TABLE BELOW)
 L-RATING AT 400°F = 1.1 OR 1.2 CFM (SEE TABLE BELOW)

1. CONCRETE WALL ASSEMBLY (2-HR. FIRE-RATING):
 A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 6" THICK).
 B. ANY UL/CUL CLASSIFIED CONCRETE BLOCK WALL.

2. [OPTIONAL] CABLE BUNDLE TO BE A COMBINATION OF ANY OF THE FOLLOWING:
 A. MAXIMUM 100 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC JACKET.
 B. MAXIMUM 7/8 NO. 12 AWG COPPER CONDUCTOR CONTROL CABLE WITH PVC OR XLPE JACKET AND INSULATION.
 C. MAXIMUM 4/0 AWG TYPE RHH GROUND CABLE.
 D. MAXIMUM 4 PAIR NO. 22 AWG CAT 5 OR 6 COMPUTER CABLE.
 E. MAXIMUM RG 6/U COAXIAL CABLE.
 F. MAXIMUM 1/2" DIAMETER FIBER-OPTIC CABLE (24 FIBER) WITH PVC OR PE JACKET AND INSULATION.
 G. MAXIMUM 3/8 NO. 12 AWG WC CABLE.

3. HILTI CFS-SL RK FIRESTOP RETROFIT SLEEVE (2" OR 4") CENTERED WITHIN WALL. DEVICE FLANGES SPUN CLOCKWISE ONTO DEVICE THREADS, BUTTING TIGHTLY TO BOTH SIDES OF WALL. EACH FLANGE SECURED TO WALL ASSEMBLY WITH FOUR 1-1/2" LONG MASONRY SCREWS OR ANCHORS THROUGH PRE-PUNCHED HOLES IN FLANGE.

4. HILTI CFS-PL FIRESTOP PLUG (2" OR 4") CUT TO FIT AROUND THE CABLE BUNDLE AND INSTALLED TIGHTLY WITHIN SLEEVE, FLUSH WITH THE END OF THE SLEEVE ON BOTH SIDES OF THE WALL.

BLANK OPENING (NO CABLES) (MAX 33% FILL)	CFM (PER DEVICE)		CFM / SQ FT	
	AMBIENT	400°F	AMBIENT	400°F
	1.3	1.1	3.8	3
	2.8	1.2	8.1	3.3

NOTES: 1. MAXIMUM DIAMETER OF OPENING = 6" (FOR 2" DEVICE) AND 8" (FOR 4" DEVICE).
 2. CABLES MAY REPRESENT 0% TO 60% OF CROSS-SECTIONAL AREA OF DEVICE.
 3. ANNULAR SPACE BETWEEN DEVICE AND PERIPHERY OF OPENING = MINIMUM 0", MAXIMUM 2".
 4. DEVICE IS DESIGNED TO ALLOW INSTALLATION BEFORE OR AFTER THE CABLE PENETRANTS ARE IN PLACE.

Hilti Firestop Systems | Page: 2 of 2

HILTI Product Information

Firestop Sleeve Kit (CFS-SL SK)

Product description
 The Hilti Firestop Sleeve Kit offers an economical and intuitive solution for properly firestopping new cable applications requiring a sleeve.

Product features

- Fast, easy, intuitive installation for new cable runs
- Easy to install correctly
- Simple to inspect
- Re-usable for future cable capacity
- Pre-cured, pre-formed firestop material does not expire, eliminating shelf-life concerns
- Protects most typical firestop penetration applications
- 4" diameter device is compatible with the Hilti Gangplate CFS-SL-CP
- Buy American compliant
- Meets LEED™ requirements for indoor environmental quality credit 4.1
- Low emitting materials
- Low VOC content and no CFCs or HCFCs

Areas of application

- Single and bundled cables in gypsum and CMU/Concrete
- New cable applications with a sleeve

Installation instructions for Firestop Sleeve Kit

See Hilti Literature or third-party listings for complete application and installation details.

Technical Data

	CFS-SL SK	
OD (device only)	2"	4"
OD (flange only)	4.2"	6.2"
ID (device only)	2.3"	4.3"
Total length	14.5 in.	
Expansion ratio (unrestricted)	Approx. 1:3	
Temperature resistance	51°F to 140°F (10°C to 60°C)	
Intumescent activation	Approx. 300°F (150°C)	
Surface burning characteristics (ASTM E 84-04)	Flame Spread: 10 Smoke Developed: 15	
Tested in accordance with	ASTM E 814 CANULC-S115 UL 1479 ASTM E 84 (CFS-PL only)	

Hilti Firestop | Saving Lives through Innovation and Education

HILTI Firestop Retrofit Sleeve Kit CFS-SL RK

1. Prepare opening and clean surfaces.
 2. Apply sealant to the annular space.
 3. Insert sleeve and align flanges.
 4. Tighten flange nuts.
 5. Check alignment and spacing.
 6. Apply sealant to the remaining annular space.
 7. Tighten flange nuts.
 8. Check alignment and spacing.
 9. Final inspection of the assembly.
 10. Clean up excess sealant.
 11. Final inspection of the assembly.
 12. Final inspection of the assembly.

Hilti Firestop Systems | Page: 1 of 2

System No. W-L-5257

ANSI/UL 1479 (ASTM E814)	CANULC S115
F Rating — 1 and 2 Hr (See Item 1)	F Rating — 1 and 2 Hr (See Item 1)
T Rating — 0 and 1 Hr (See Items 1 and 3)	FT Rating — 0 and 1 Hr (See Items 1 and 3)
L Rating At Ambient — 4 CFM/sq ft (See Item)	FH Rating — 1 and 2 Hr (See Item 1)
L Rating At 400°F — Less Than 1 CFM/sq ft (See Item)	FTH Rating — 0 and 1 Hr (See Items 1 and 3)
	L Rating At Ambient — 4 CFM/sq ft (See Item)
	L Rating At 400°F — Less Than 1 CFM/sq ft (See Item)

Hilti Firestop Systems | Page: 1 of 2

System No. W-L-5257

1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, U400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.

B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide, with square or tapered edges. Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. Max diam of opening is 8 in. (203 mm).

The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed. The hourly 1, FT and FH Ratings of the firestop system are 1 hr for 2 hr fire rated walls and 0 hr for 1 hr fire rated walls.

2. Through Penetrant — One metallic pipe or tube to be installed eccentrically or concentrically within the firestop system. Pipe or tube to be rigidly supported on both sides of the wall assembly. The following types and sizes of metallic pipes and tubes may be used:

A. Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.
 B. Iron Pipe — Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
 C. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
 D. Copper Tube — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tube.

3. Pipe Covering* — Min 1 in. (25 mm) to max 1-1/2 in. (38 mm) thick hollow cylindrical heavy density (3.5 pcf or 24 kg/m³) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated pipe and the periphery of the opening shall be min 0 in. (point contact) to max 7/8 in. (22 mm). When pipe covering material thickness is less than 1-1/2 in. (38 mm), the T, FT and FH Ratings are 0 Hr.

See Pipe Equipment Covering — Materials — (BRGU) Category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly. At point contact location, min 1/2 in. (13 mm) diam bead of fill material applied at insulated metallic pipe/wall interface on both surfaces of wall. L Ratings apply only when FS-One Sealant is used.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — FS-One Sealant, CP 606 Sealant or CP 601S Sealant

*Bearing the UL Classification Mark

Hilti Firestop Systems | Page: 2 of 2

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 Oakland, CA 94607

DESIGNER STAMP: **PHILIP SHENG-TUNG TUNG**
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 C 29075
 12-31-19
 STATE OF CALIFORNIA

RECORD DRAWINGS:

DESIGNER: _____ DATE: _____ DRAWN BY: _____ DATE: _____
 PUBLIC WORKS INSPECTOR: _____ DATE: _____ CHECKED BY: _____ DATE: _____
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 PROJECT ENGINEER: _____ DATE: _____
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REVISIONS

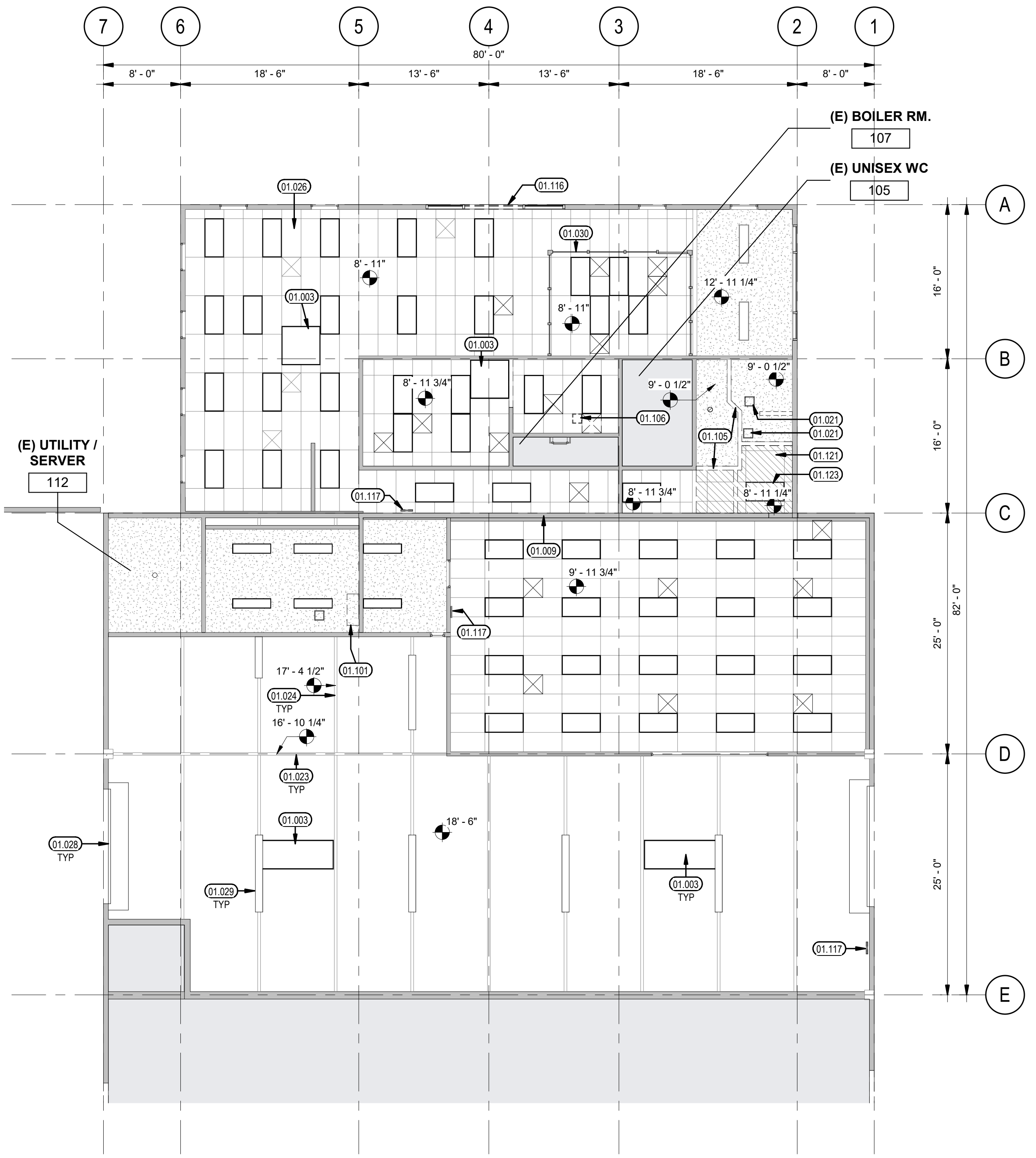
NO.	RE-ISSUE FOR PERMIT	ISSUE DESCRIPTION	ENGR. APR.	DATE
1				10/24/2019

CITY OF MILPITAS
 FIRESTOP CUTSHEETS

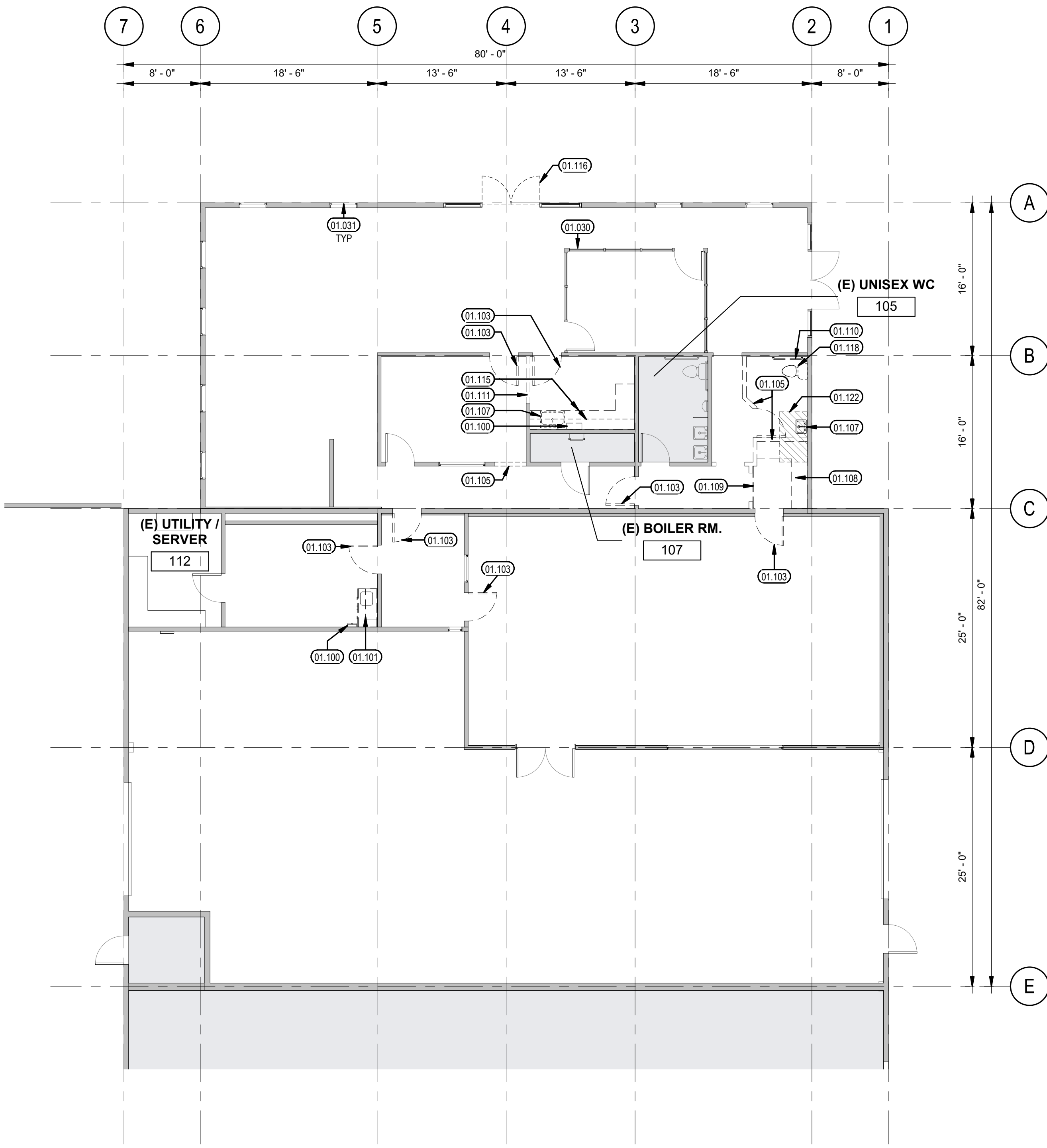
Drawing Title: **CITY OF MILPITAS FIRE STATION NO.2 TEMP. STATION**
 1126 YOSEMITE DRIVE, MILPITAS, CA

RECOMMENDED FOR BIDDING BY: _____ DATE: _____
 MICHAEL SILVEIRA, P.E., CIP MANAGER

City Project Number: 3447
 REC. DWG NO. _____
 SCALE: AS NOTED
 Drawing No. **A-006**
 Sheet No. _____ of _____



REFLECTED CEILING PLAN - DEMOLITION **A12**
1/8" = 1'-0"



FLOOR PLAN - DEMOLITION **A4**
1/8" = 1'-0"

- SHEET NOTES**
- GROUND FLOOR SLAB ON GRADE FOR ROOM 104: STRIP DOWN ALL PREVIOUS FLOOR FINISHES DOWN TO CONCRETE, INCLUDING ALL ADHESIVES & RESIDUES
 - FOLLOW FORB'S INSTALLATION/ FLOOR PREPARATION REQUIREMENTS FOR SCHEDULED LINOLIUM
 - REFER TO MECH, PLUMBING & ELECTRICAL DRAWINGS FOR FULL SCOPE OF DEMOLITION
 - NO LOAD BEARING DEMOLITION
 - (E) GYPSUM CEILING SHALL REMAIN, PROTECT DURING DEMOLITION

- KEY NOTES**
- 01.003 (E) SKYLIGHT, TO REMAIN
 - 01.009 (E) PRECAST TILT-UP CONCRETE WALL, TO REMAIN
 - 01.021 (E) RESTROOM EXHAUST FAN, TO REMAIN.
 - 01.023 (E) GIRDER, TO REMAIN
 - 01.024 (E) PURLIN, TO REMAIN
 - 01.026 (E) ACOUSTICAL GRID CEILING
 - 01.028 (E) ROLL UP DOOR
 - 01.029 (E) APP BAY LIGHTS
 - 01.030 (E) INTERIOR STOREFRONT TO REMAIN
 - 01.031 (E) WINDOW, TO REMAIN
 - 01.100 (E) DISPENSIBLE TOWEL DISPENSER, TO DEMO.
 - 01.101 (E) CAB. & SINK TO DEMOLISH, CAP PIPES FLUSH TO WALL OR FLOOR
 - 01.103 (E) DOOR TO DEMOLISH
 - 01.105 (E) WALL TO BE DEMOLISHED
 - 01.106 (E) GRILLE TO BE DEMOLISHED TO ACCOMMODATE (N) KITCHEN HOOD
 - 01.107 (E) SINK SHALL BE DEMOLISHED
 - 01.108 (E) SHELVE TO BE DEMOLISHED
 - 01.109 (E) PEG-BOARD PARTITION TO BE DEMOLISHED
 - 01.110 (E) TOILET GRAB BAR TO BE DEMOLISHED
 - 01.111 (E) PARTIAL HEIGHT WALL TO BE DEMOLISHED
 - 01.115 (E) UPPER CABINETS AND ALL COUNTERTOPS TO BE DEMOLISHED
 - 01.116 (E) DOUBLE DOOR TO BE DEMOLISHED, KEEP THE REST OF (E) STOREFRONT SYSTEM
 - 01.117 (E) EMERGENCY EXIT SIGN TO BE DEMOLISHED
 - 01.118 (E) TOILET TO BE DEMOLISHED
 - 01.121 (E) ACOUSTIC TILE CEILING TO BE DEMOLISHED, REBUILD TO MATCH (E) GYP. CEILING AT 9'-1/2" IN RM. 104
 - 01.122 (E) CONCRETE SLAB TO DEMOLISH FOR NEW RECESSED ROLL-IN SHOWER PAN
 - 01.123 (E) LIGHT FIXTURE TO BE DEMOLISHED

- KEY LEGEND**
- DEMOLISH
 - (E) RECESSED CAN LIGHT, SED. FOR DEMO. INSTRUCTIONS
 - (E) LIGHT FIXTURE
 - (E) INDUSTRIAL GRADE WAREHOUSE LIGHTING
 - (E) SKYLIGHT
 - (E) LARGE SKYLIGHT
 - (E) SMALL EXHAUST VENT, TO REMAIN
 - (E) SMALL EXHAUST VENT, TO DEMO
 - ⊗ (E) HVAC GRILLE
 - (E) SUSPENDED CEILING LIGHT FIXTURE 4' X 2'
 - (E) SUSPENDED CEILING LIGHT FIXTURE 4' X 2'
 - (E) ROOF ACCESS LADDER
 - AREA OF BUILDING NOT IN SCOPE
 - (E) GYP. CEILING
 - (E) ACOUSTICAL GRID CEILING
 - DEMO. (E) ACOUSTICAL GRID CEILING
 - KEYNOTES
 - (E) EMERGENCY EXIT SIGN TO DEMO.

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Consultant

DESIGNER STAMP:

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PUBLIC WORKS INSPECTOR: _____ DATE: _____
UTILITY/FACILITY DEPT. HEAD: _____ DATE: _____
PROJECT ENGINEER: _____ DATE: _____
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	RE-ISSUE FOR PERMIT		10/24/2019



CITY OF MILPITAS FIRE STATION NO.2 TEMP. STATION
1126 YOSEMITE DRIVE, MILPITAS, CA

FLOOR PLAN & RCP - DEMOLITION

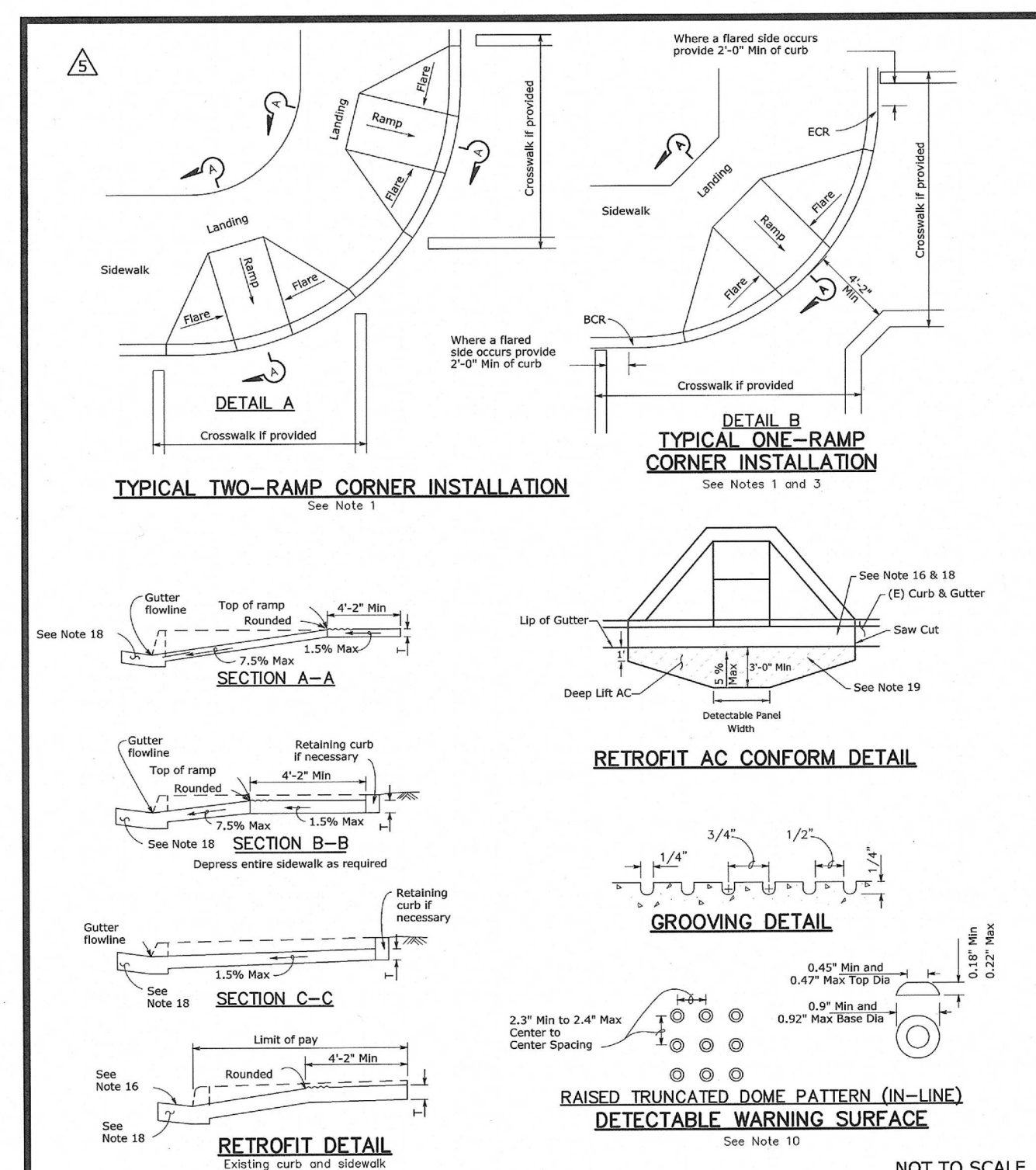
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MICHAEL SILVEIRA, P.E., CIP MANAGER

City Project Number: 3447
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SCALE: AS NOTED
Drawing No. **AD-101**
Sheet No. _____ of _____

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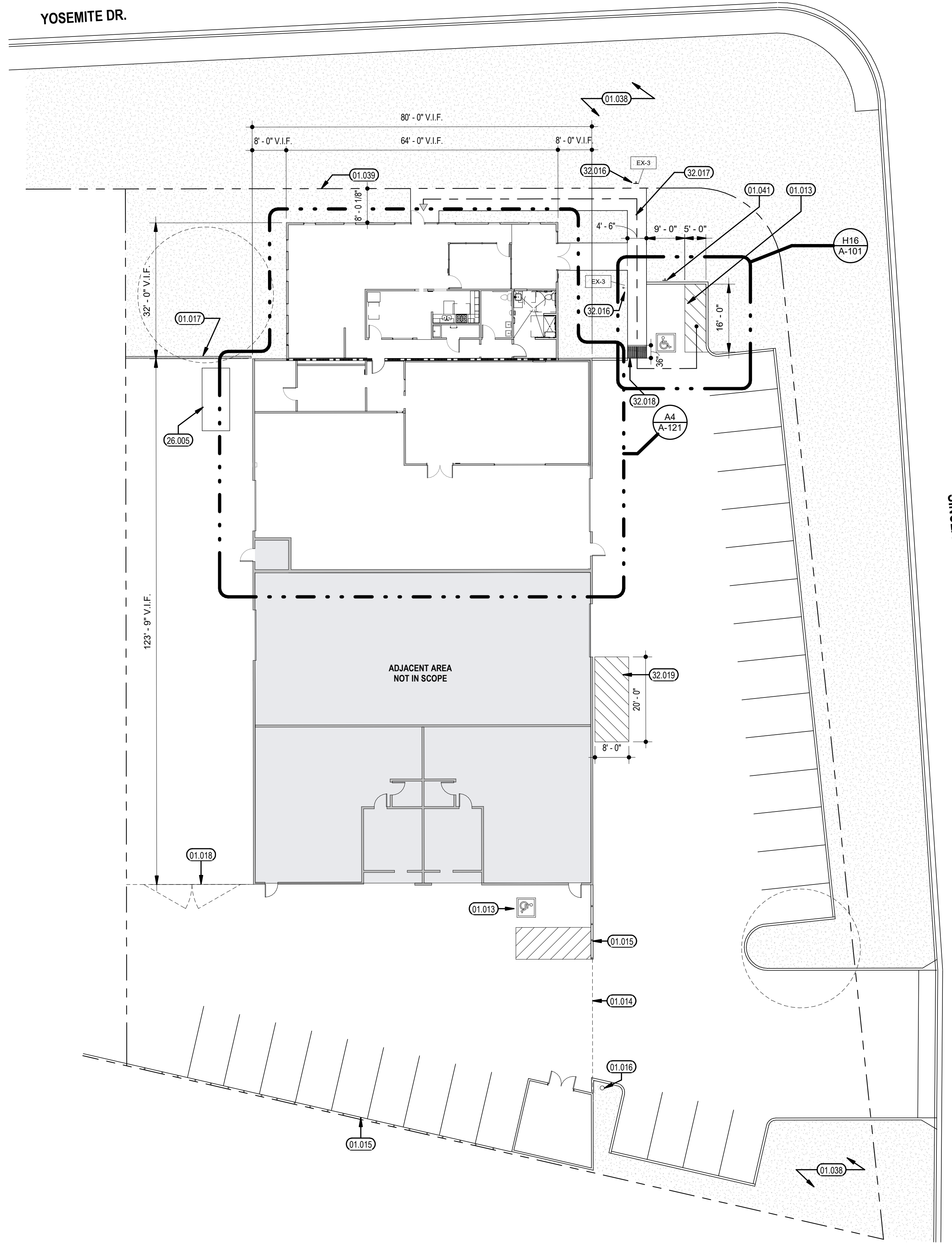


ACCESSIBLE PARKING STALL H16
RE: A4/ A-101 6" = 1'-0"



CITY OF MILPITAS, ENGINEERING DIVISION		STANDARD DRAWING No. 419	
CURB RAMP DETAILS		DATE : 04/25/14	
APPROVED BY: JEFF MONEDA PUBLIC WORKS DIRECTOR / CITY ENGINEER RCE No. C-60944		SHEET 2 OF 3	

- NOTE:
- DETECTABLE WARNING SURFACE SHALL BE TACTILE WARNING SURFACE SMC COMPOSITE PRECAST, PART NO. 2436NV8PRE, MANUFACTURED BY ADA SOLUTION, OR APPROVED EQUAL.
 - COLOR SHALL BE YELLOW OF STATE STANDARD SPECIFICATION.
 - THE DETECTABLE WARNING SURFACE SHALL BE SET-IN-PLACE IN WET CONCRETE.



SINCLAIR FRONTAGE RD.

SHEET NOTES

- REFER TO ELECTRICAL DRAWING FOR GENERATOR, DOCKING STATION AND ATS PANEL
- CONTRACTOR SHALL PROVIDE MOUNTING FOR ALL SIGNAGE.
- REFER TO A12/A-002 FOR LOCATION OF FOLLOWING SIGNS: EX-02 & EX-05

SIGNAGE SCHEDULE -(N) EXTERIOR SIGNAGE

SIGN NO.	SIGNAGE INFO	DETAIL REFERENCE
EX-02	NO SMOKING SIGN - EXTERIOR	A1/A-004
EX-03	ADA DIRECTIONAL SIGNAGE	J13/A-003
EX-05	ACCESSIBLE ENTRANCE SIGN	E1/A-003

KEY NOTES

- 01.013 (E) ADA PARKING
- 01.014 (E) ROLLING GATE, TO REMAIN
- 01.015 (E) FENCE, TO REMAIN
- 01.016 (E) FIRE HYDRANT, TO REMAIN
- 01.017 (E) EXTERIOR WALL
- 01.018 (E) DOUBLE SWING GATE
- 01.038 (E) LANDSCAPE, TO REMAIN
- 01.039 (E) PROPERTY LINE
- 01.041 (E) ADA PARKING SIGN, TO REMAIN
- 26.005 (N) PORTABLE EMERGENCY GENERATOR; OFCI, SED
- 32.016 (N) EXTERIOR SIGNAGE, MOUNT ON POST AS NECESSARY, POINT ARROW TOWARDS MAIN ENTRY
- 32.017 ACCESSIBLE ROUTE TO ACCESSIBLE ENTRY. SLOPE SHALL NOT BE MORE THAN 5% AND CROSS SLOPE MORE THAN 2%
- 32.018 (N) TRUNCATED DOME DETECTABLE WARNING SURFACE PER CITY STD NO. 419
- 32.019 (N) 8' X 20' LOADING / UNLOADING ZONE STRIPING. PROVIDE WHITE PAINT STRIPING. PAINT SHALL BE WATERBORNE-BASED ONLY AND SHALL CONFORM TO STATE SPECIFICATIONS PTWB-01R2. SOLVENT BASED OR ACETONE-BASED PAINTS SHALL NOT BE USED AND THINNING WILL NOT BE ALLOWED. TO BE COMPLIANT WITH MILPITAS, CALIFORNIA - CODE OF ORDINANCES: V-100-11 "STOPPING FOR LOADING OR UNLOADING ONLY"

SITE LEGEND

- AREA OF BUILDING NOT IN SCOPE
- (E) LANDSCAPING
- (E) TREE, TO REMAIN
- KEYNOTES
- MAIN ENTRY
- (N) SIGN, REFER TO A-003 / A-004
- (N) TRUNCATED DOME DETECTABLE WARNING SURFACE
- ACCESSIBLE ROUTE TO ACCESSIBLE ENTRANCE
- (E) ADA PARKING SIGN TO REMAIN

SITE PLAN A4
1/16" = 1'-0"

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UTILITY/FACILITY DEPT. HEAD: _____	DATE: _____	DESIGNED BY: _____	DATE: _____
PROJECT ENGINEER: _____	DATE: _____		
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2	ISSUED FOR PERMIT		10/09/2019
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4	RESPONSE TO CITY PERMIT		11/11/2019



CITY OF MILPITAS FIRE STATION NO.2 TEMP. STATION
1126 YOSEMITE DRIVE, MILPITAS, CA

Drawing Title: **SITE PLAN**

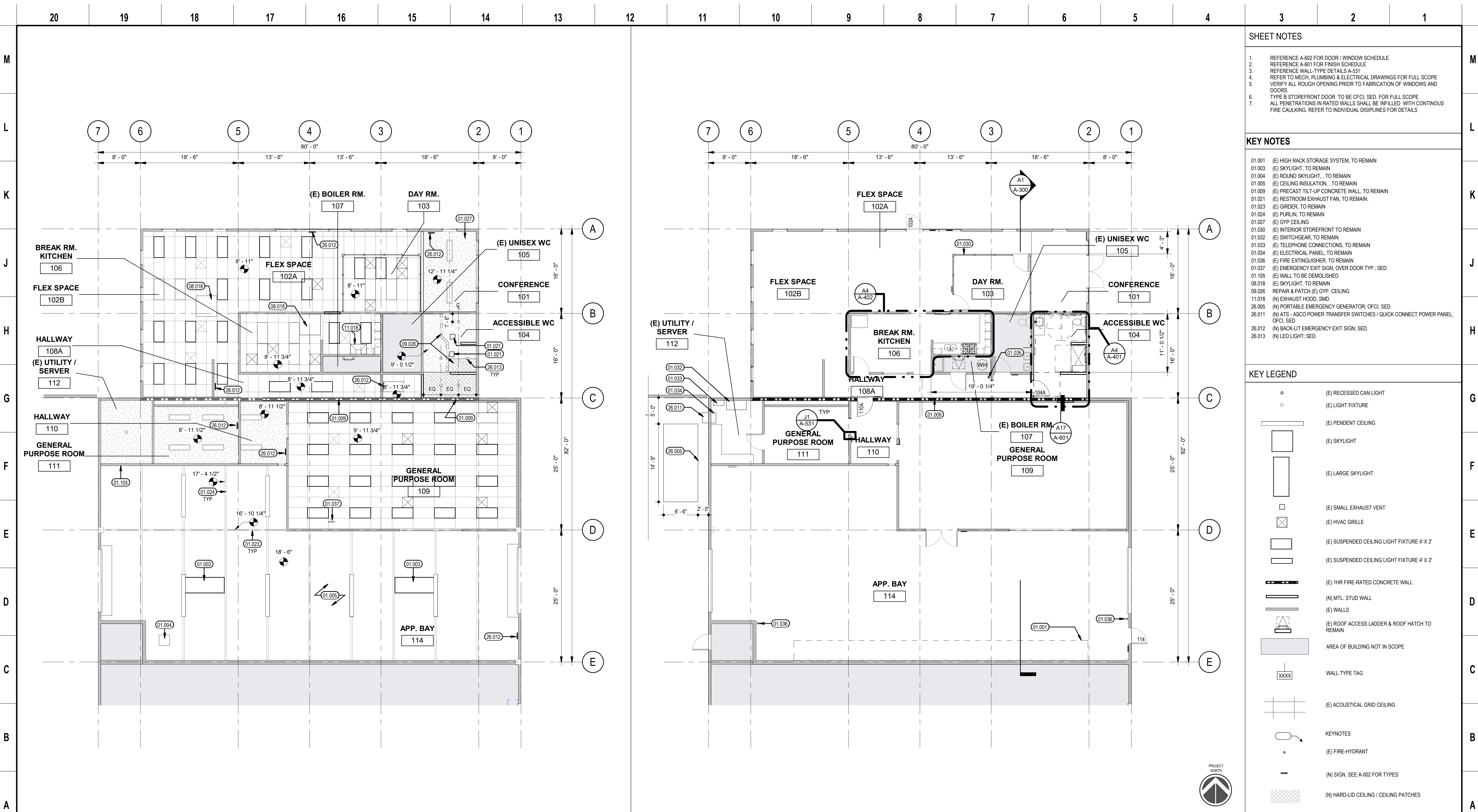
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City Project Number: 3447
REC. DWG NO. _____
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Drawing No. **A-101**
Sheet No. _____ of _____

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M L K J H G F E D C B A

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- SHEET NOTES**
- REFERENCE A-602 FOR DOOR / WINDOW SCHEDULE
 - REFERENCE A-601 FOR FINISH SCHEDULE
 - REFERENCE WALL-TYPE DETAILS A-531
 - REFER TO MECH. PLUMBING & ELECTRICAL DRAWINGS FOR FULL SCOPE
 - VERIFY ALL ROUGH OPENING PRIOR TO FABRICATION OF WINDOWS AND DOORS.
 - TYPE B STOREFRONT DOOR TO BE CFCI, SED. FOR FULL SCOPE
 - ALL PENETRATIONS IN RATED WALLS SHALL BE FILLED WITH CONTINUOUS FIRE CAULKING. REFER TO INDIVIDUAL DISCIPLINES FOR DETAILS

- KEY NOTES**
- 01.001 (E) HIGH RACK STORAGE SYSTEM, TO REMAIN
 - 01.003 (E) SKYLIGHT, TO REMAIN
 - 01.004 (E) ROUND SKYLIGHT, TO REMAIN
 - 01.005 (E) CEILING INSULATION, TO REMAIN
 - 01.009 (E) PRECAST TILT-UP CONCRETE WALL, TO REMAIN
 - 01.021 (E) RESTROOM EXHAUST FAN, TO REMAIN.
 - 01.023 (E) GRID, TO REMAIN
 - 01.024 (E) PURLIN, TO REMAIN
 - 01.027 (E) GYP CEILING
 - 01.030 (E) INTERIOR STOREFRONT TO REMAIN
 - 01.032 (E) SWITCHGEAR, TO REMAIN
 - 01.033 (E) TELEPHONE CONNECTIONS, TO REMAIN
 - 01.034 (E) ELECTRICAL PANEL, TO REMAIN
 - 01.036 (E) FIRE EXTINGUISHER, TO REMAIN
 - 01.037 (E) EMERGENCY EXIT SIGN, OVER DOOR TYP.; SED
 - 01.105 (E) WALL TO BE DEMOLISHED
 - 08.018 (E) SKYLIGHT, TO REMAIN
 - 09.026 REPAIR & PATCH (E) GYP. CEILING
 - 11.018 (N) EXHAUST HOOD, SMD.
 - 26.005 (N) PORTABLE EMERGENCY GENERATOR; OFCI, SED
 - 26.011 (N) ATS - ASCO POWER TRANSFER SWITCHES / QUICK CONNECT POWER PANEL; OFCI, SED
 - 26.012 (N) BACK-LIT EMERGENCY EXIT SIGN; SED.
 - 26.013 (N) LED LIGHT; SED.

- KEY LEGEND**
- (E) RECESSED CAN LIGHT
 - (E) LIGHT FIXTURE
 - (E) PENDENT CEILING
 - (E) SKYLIGHT
 - (E) LARGE SKYLIGHT
 - (E) SMALL EXHAUST VENT
 - (E) HVAC GRILLE
 - (E) SUSPENDED CEILING LIGHT FIXTURE 4' X 2'
 - (E) SUSPENDED CEILING LIGHT FIXTURE 4' X 2'
 - (E) 1HR FIRE-RATED CONCRETE WALL
 - (N) MTL. STUD WALL
 - (E) WALLS
 - (E) ROOF ACCESS LADDER & ROOF HATCH TO REMAIN
 - AREA OF BUILDING NOT IN SCOPE
 - WALL TYPE TAG
 - (E) ACOUSTICAL GRID CEILING
 - KEYNOTES
 - (E) FIRE-HYDRANT
 - (N) SIGN, SEE A-002 FOR TYPES
 - (N) HARD-LID CEILING / CEILING PATCHES
 - GYP. CEILING

REFLECTED CEILING PLAN **A12**
1/8" = 1'-0"

FLOOR PLAN **A4**
RE: A4/ A-101 1/8" = 1'-0"

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DESIGNER: _____ DATE: _____
PUBLIC WORKS INSPECTOR: _____ DATE: _____
UTILITY/FACILITY DEPT. HEAD: _____ DATE: _____
PROJECT ENGINEER: _____ DATE: _____
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	RE-ISSUE FOR PERMIT		10/24/2019
	RESPONSE TO CITY PERMIT		11/11/2019

CITY OF MILPITAS
1126 YOSEMITE DRIVE, MILPITAS, CA

CITY OF MILPITAS FIRE STATION NO.2 TEMP. STATION

Drawing Title: **FLOOR PLAN & RCP**

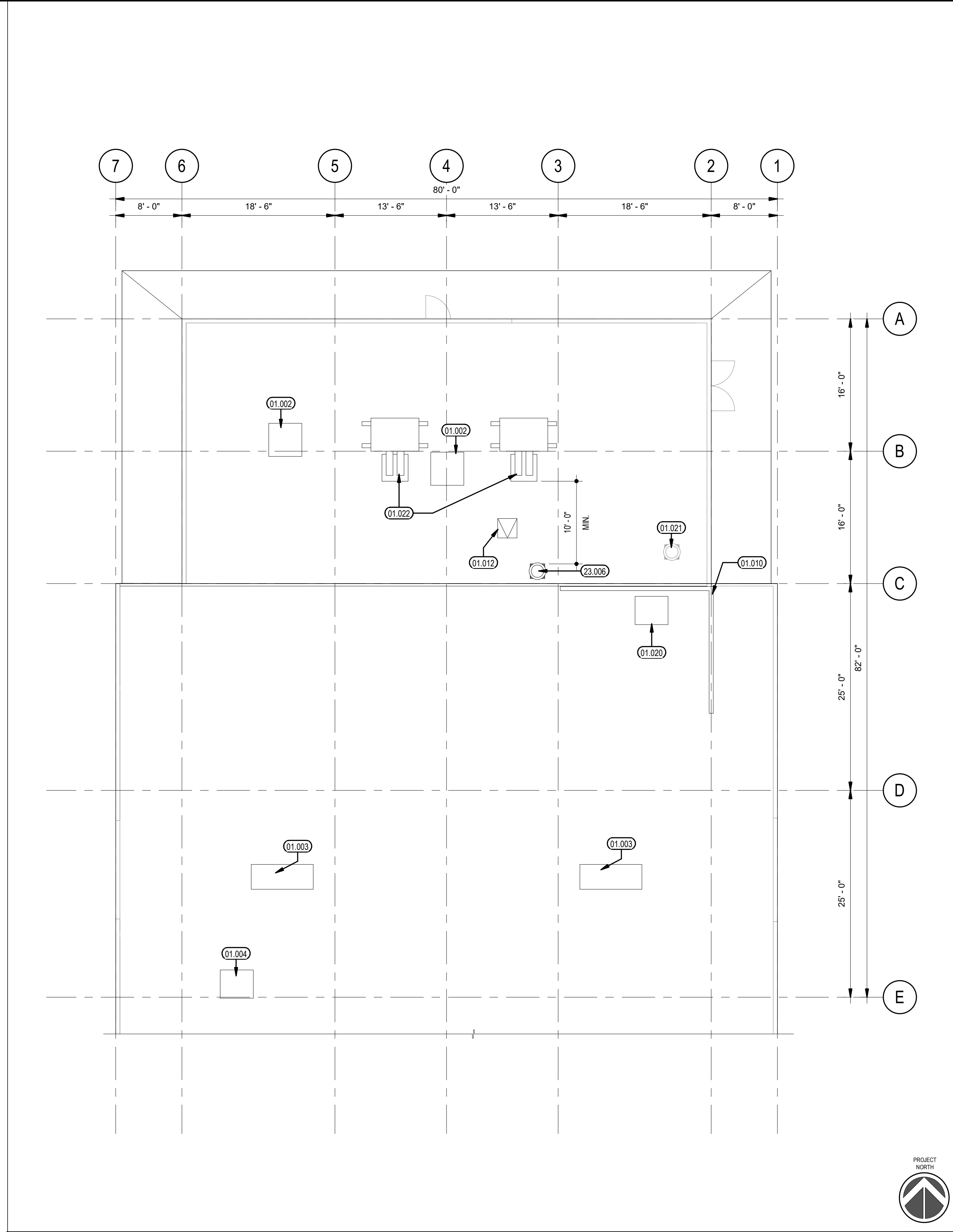
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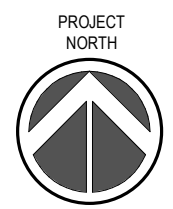


SHEET NOTES

KEY NOTES

- 01.002 (E) SKYLIGHT, LARGE SQUARE, TO REMAIN
- 01.003 (E) SKYLIGHT, TO REMAIN
- 01.004 (E) ROUND SKYLIGHT, TO REMAIN
- 01.010 (E) HVAC-CONCEALING EXTERIOR WALL
- 01.012 (E) ROOF-ACCESS HATCH, TO REMAIN
- 01.020 (E) 4-TON DX RTU
- 01.021 (E) RESTROOM EXHAUST FAN, TO REMAIN
- 01.022 (E) 3-TON RTU
- 23.006 (N) KITCHEN HOOD EXHAUST VENT, MINIMUM 10 FEET FROM ANY AIR INTAKE APPLIANCE, SMD.

ROOF PLAN A4
1/8" = 1'-0"



G:\1925\01\Drawings\CITY OF MILPITAS FIRE STATION 2

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CITY OF MILPITAS

1126 YOSEMITE DRIVE, MILPITAS, CA

ROOF PLAN

RECOMMENDED FOR BIDDING BY: _____ DATE: _____
MICHAEL SILVEIRA, P.E., CIP MANAGER

City Project Number: 3447
REC. DWG NO. _____

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SCALE: AS NOTED

Drawing No. **A-122**
Sheet No. _____ of _____

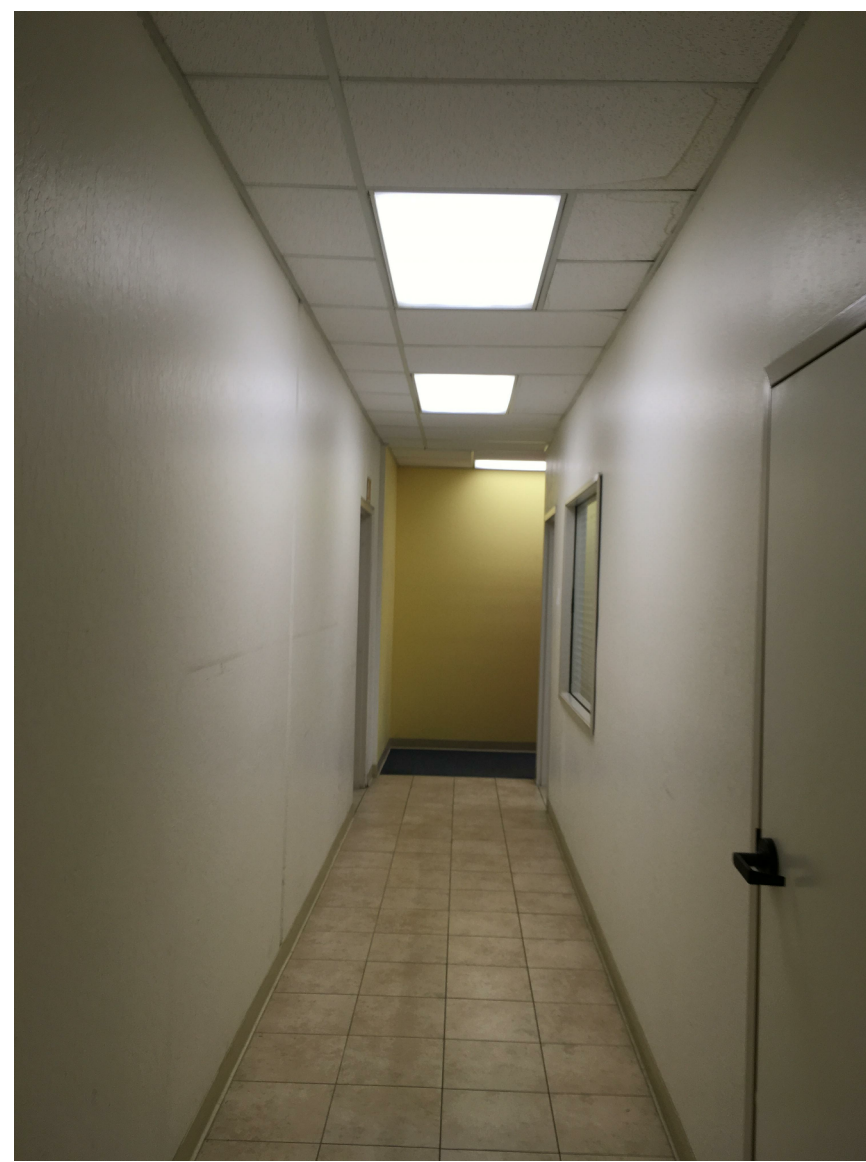
20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



EXISTING APP BAY - WEST VIEW



EXISTING GENERAL PURPOSE ROOM - WEST VIEW



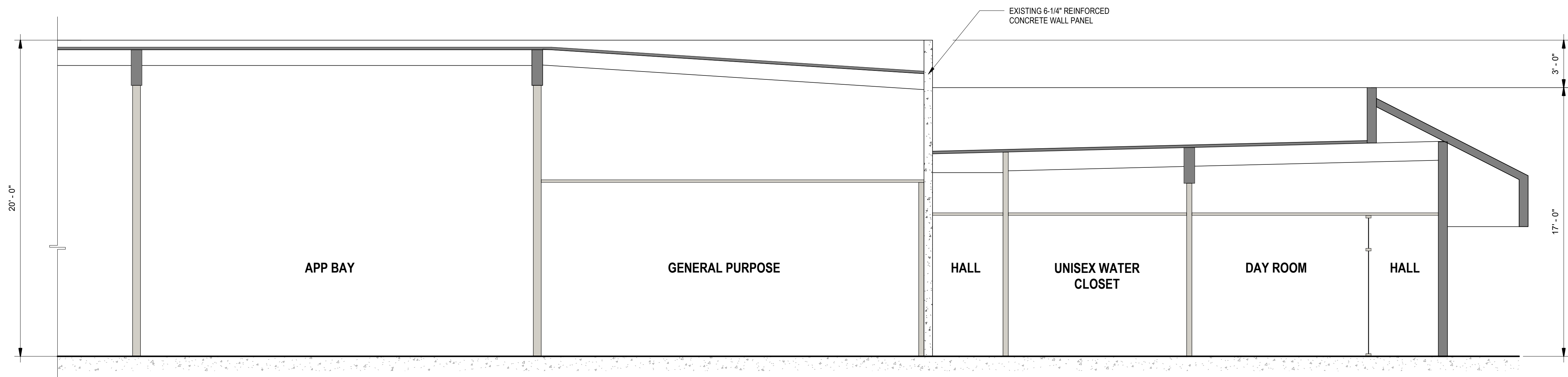
EXISTING HALLWAY - WEST VIEW



EXISTING DAY RM - WEST VIEW



EXISTING HALLWAY - EAST VIEW



BUILDING SECTION A1
RE: A4/ A-121 1/4" = 1'-0"

Architect of Record
SHAH KAWASAKI ARCHITECTS
570 10th Street, Suite 201
Oakland, CA 94607
Consultant

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REVISIONS			
NO.	ISSUE DESCRIPTION	ENGR. APR.	DATE
1	ISSUED FOR PERMIT		10/08/2019
2	RE-ISSUE FOR PERMIT		10/24/2019



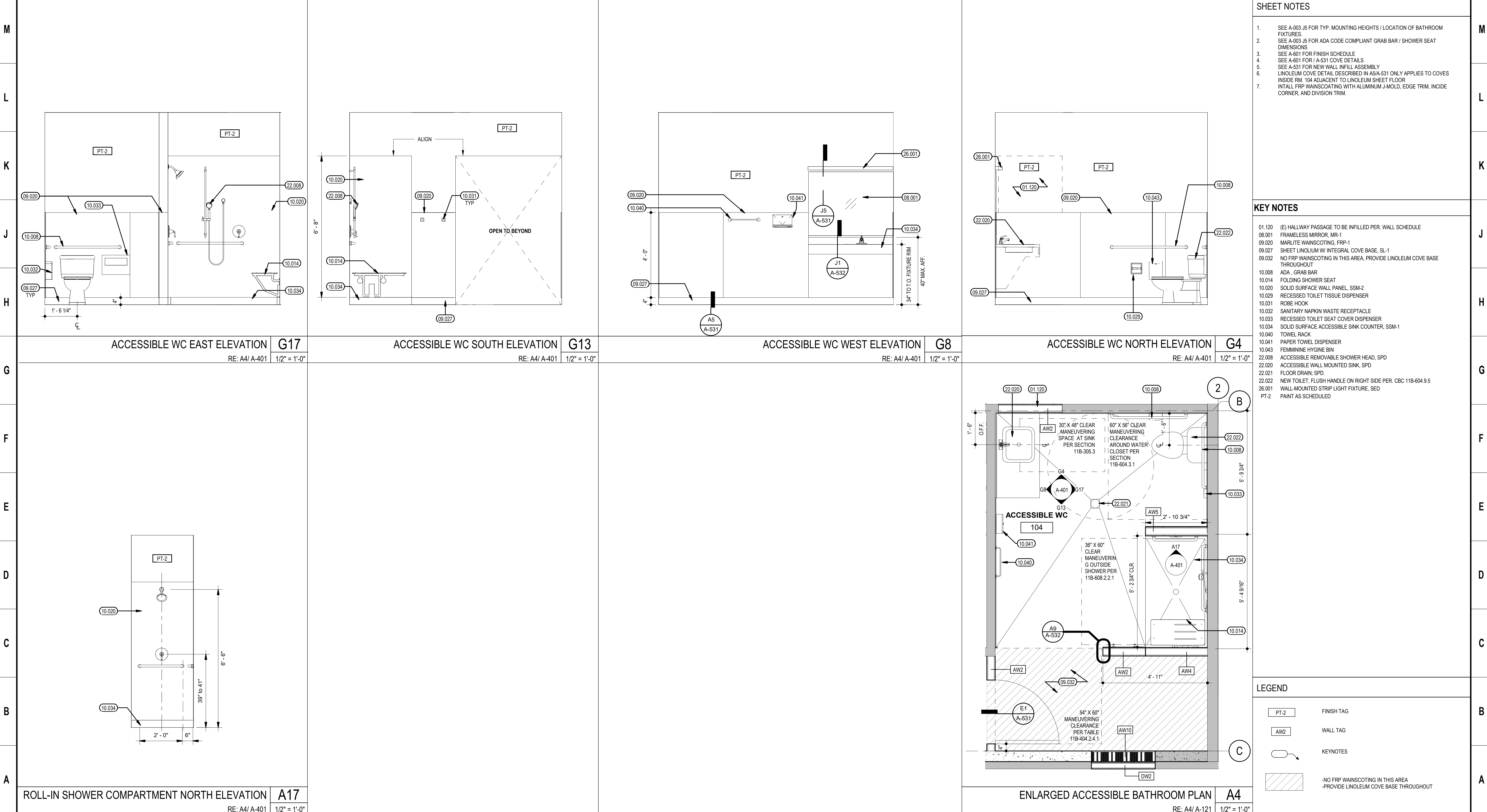
CITY OF MILPITAS FIRE STATION NO.2 TEMP. STATION
1126 YOSEMITE DRIVE, MILPITAS, CA

Drawing Title
BUILDING SECTION & EXISTING PHOTOS

RECOMMENDED FOR BIDDING BY: _____ DATE: _____
MICHAEL SILVEIRA, P.E., CIP MANAGER

City Project Number: 3447
REC. DWG NO. _____
SCALE: AS NOTED
Drawing No. **A-300**
Sheet No. _____ of _____

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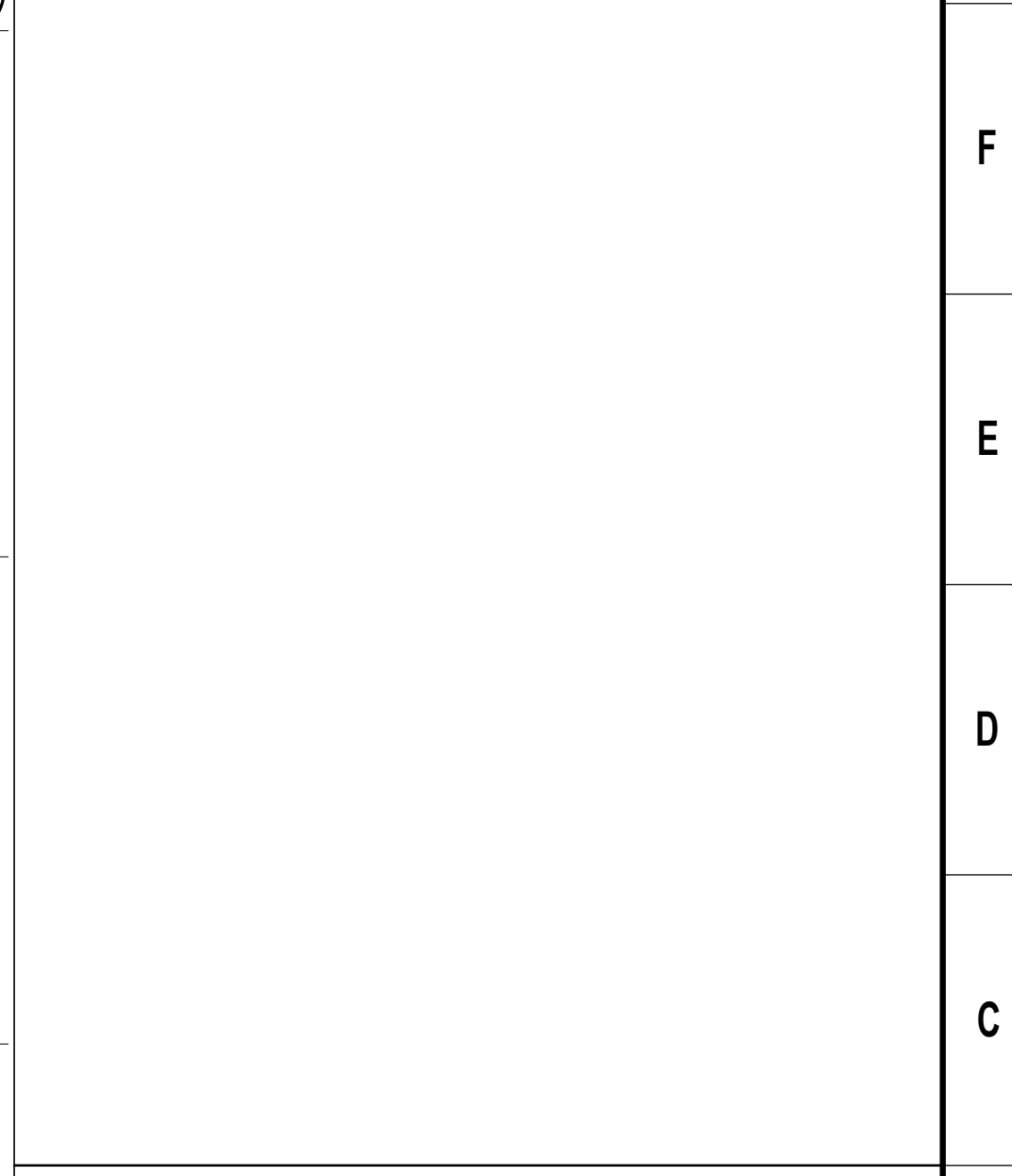


SHEET NOTES

- SEE A-003 J5 FOR TYP. MOUNTING HEIGHTS / LOCATION OF BATHROOM FIXTURES.
- SEE A-003 J5 FOR ADA CODE COMPLIANT GRAB BAR / SHOWER SEAT DIMENSIONS
- SEE A-601 FOR FINISH SCHEDULE
- SEE A-601 FOR A-531 COVE DETAILS
- SEE A-531 FOR NEW WALL INFL. ASSEMBLY
- LINOLEUM COVE DETAIL DESCRIBED IN A5A-531 ONLY APPLIES TO COVES INSIDE RM. 104 ADJACENT TO LINOLEUM SHEET FLOOR
- INSTALL FRP WAINSCOTING WITH ALUMINUM J-MOLD, EDGE TRIM, INCOE CORNER, AND DIVISION TRIM.

KEY NOTES

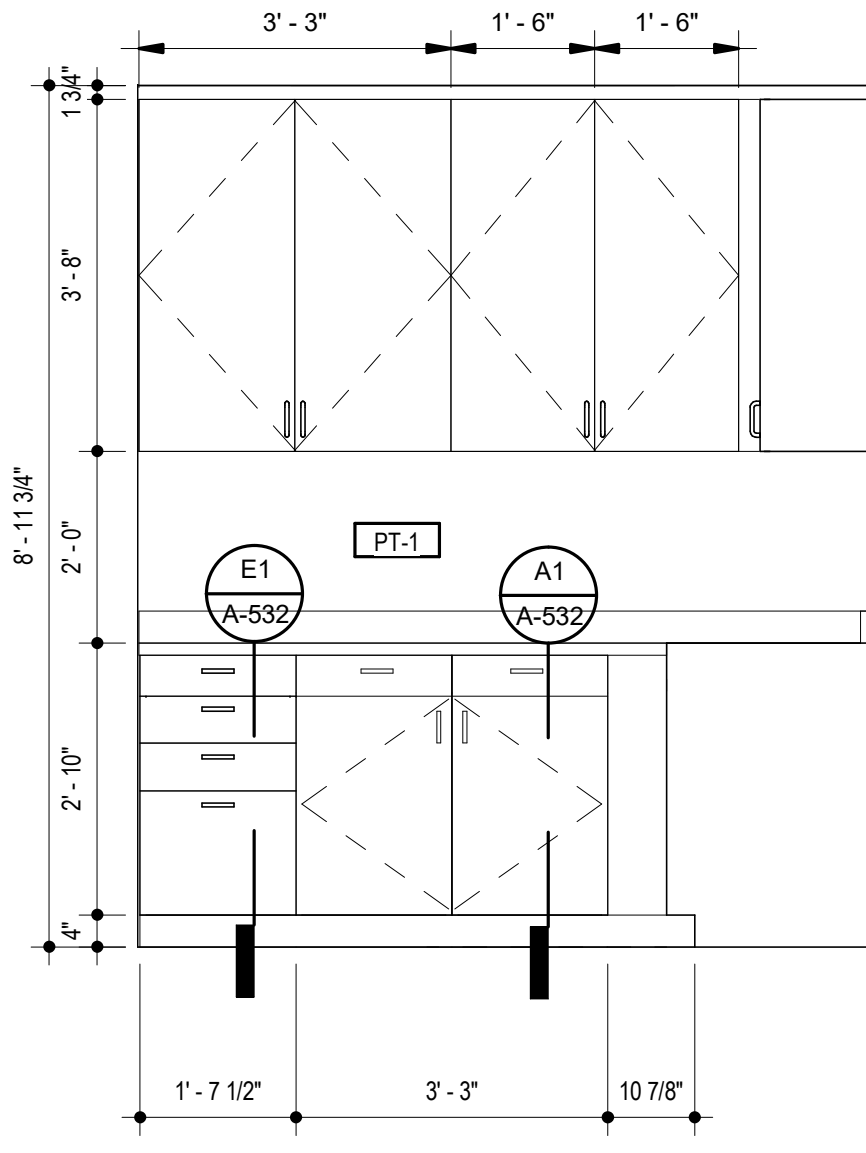
- 01.120 (E) HALLWAY PASSAGE TO BE INFILLED PER. WALL SCHEDULE
- 08.001 FRAMELESS MIRROR, MR-1
- 09.020 MARLITE WAINSCOTING, FRP-1
- 09.027 SHEET LINOLEUM W/ INTEGRAL COVE BASE, SL-1
- NO FRP WAINSCOTING IN THIS AREA, PROVIDE LINOLEUM COVE BASE THROUGHOUT
- 10.008 ADA GRAB BAR
- 10.014 FOLDING SHOWER SEAT
- 10.020 SOLID SURFACE WALL PANEL, SSM-2
- 10.029 RECESSED TOILET TISSUE DISPENSER
- 10.031 ROBE HOOK
- 10.032 SANITARY NAPKIN WASTE RECEPTACLE
- 10.033 RECESSED TOILET SEAT COVER DISPENSER
- 10.034 SOLID SURFACE ACCESSIBLE SINK COUNTER, SSM-1
- 10.040 TOWEL RACK
- 10.041 PAPER TOWEL DISPENSER
- 10.043 FEMMININE HYGINE BIN
- 22.008 ACCESSIBLE REMOVABLE SHOWER HEAD, SPD
- 22.020 ACCESSIBLE WALL MOUNTED SINK, SPD
- 22.021 FLOOR DRAIN, SPD
- 22.022 NEW TOILET, FLUSH HANDLE ON RIGHT SIDE PER. CBC 11B-604.9.5
- 26.001 WALL-MOUNTED STRIP LIGHT FIXTURE, SED
- PT-2 PAINT AS SCHEDULED



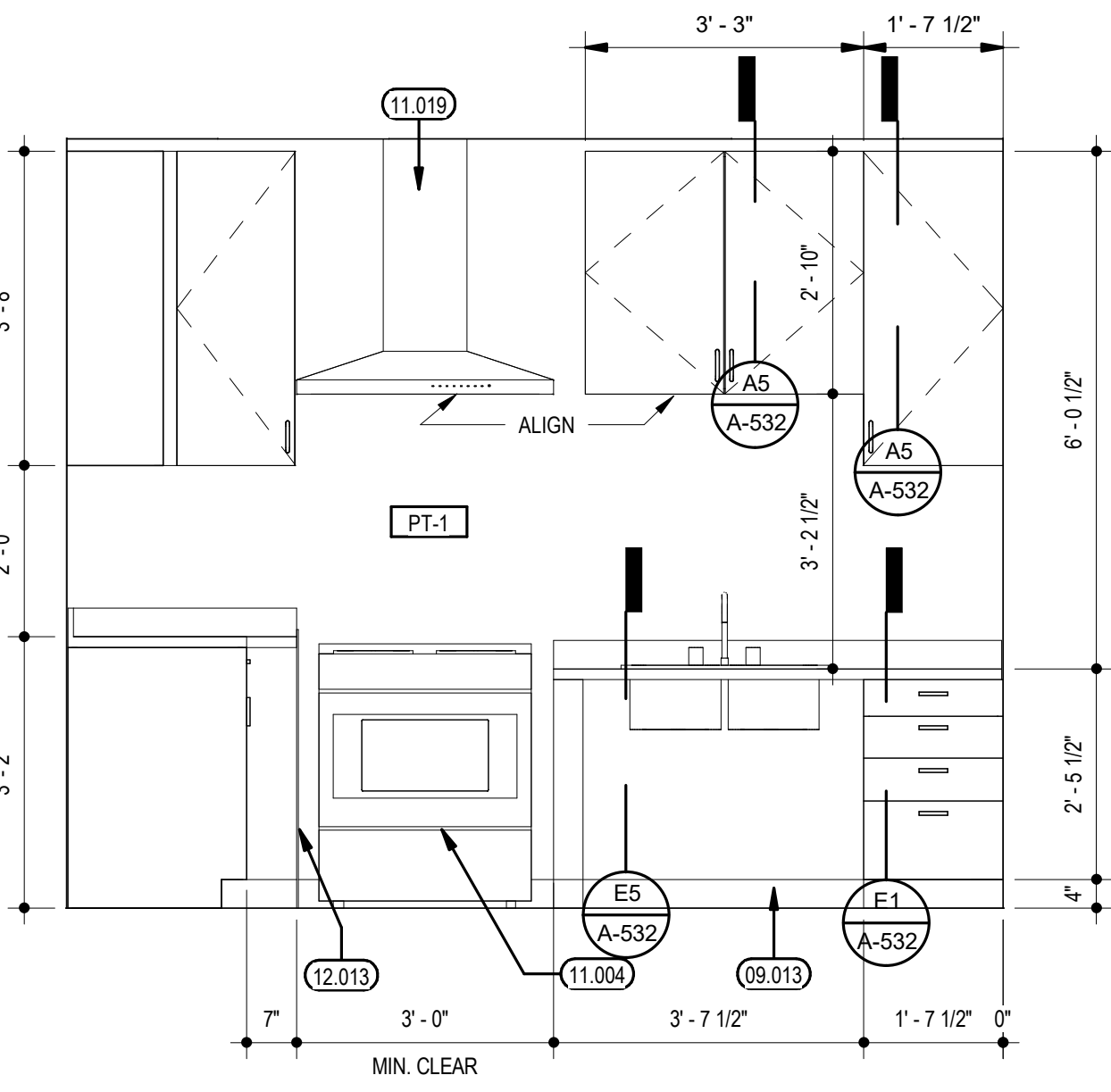
<p>Architect of Record SHAH KAWASAKI ARCHITECTS 570 10th Street, Suite 201 Oakland, CA 94607 Consultant</p>	<p>DESIGNER STAMP: </p> <p>RECORD DRAWINGS:</p> <p>DESIGNER: _____ DATE: _____ PUBLIC WORKS INSPECTOR: _____ DATE: _____ UTILITY/FACILITY DEPT. HEAD: _____ DATE: _____ PROJECT ENGINEER: _____ DATE: _____ PUBLIC IMPROVEMENTS INITIALLY ACCEPTED BY THE CITY COUNCIL ON: _____ RES. NO. _____</p>	<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>ISSUE DESCRIPTION</th> <th>ENGR. APR.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>100%</td> <td>DESIGN DEVELOPMENT</td> <td></td> <td>09/27/2019</td> </tr> <tr> <td></td> <td>ISSUED FOR PERMIT</td> <td></td> <td>10/09/2019</td> </tr> <tr> <td></td> <td>RE-ISSUE FOR PERMIT</td> <td></td> <td>10/24/2019</td> </tr> </tbody> </table>	NO.	ISSUE DESCRIPTION	ENGR. APR.	DATE	100%	DESIGN DEVELOPMENT		09/27/2019		ISSUED FOR PERMIT		10/09/2019		RE-ISSUE FOR PERMIT		10/24/2019	<p>CITY OF MILPITAS FIRE STATION NO.2 TEMP. STATION 1126 YOSEMITE DRIVE, MILPITAS, CA</p> <p>ENLARGED PLANS & ELEVATIONS - ACCESSIBLE WC</p> <p>City Project Number: 3447 REC. DWG NO. _____ Drawing Title: _____ RECOMMENDED FOR BIDDING BY: MICHAEL SILVEIRA, P.E., CIP MANAGER DATE: _____ NOTE: If this drawing is not 36"x24" it has been revised from its original size and the scales noted on drawing/details are no longer applicable. © 2019 Shah Kawasaki Architects Drawing No. A-401 Sheet No. _____ of _____</p>
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SHEET NOTES

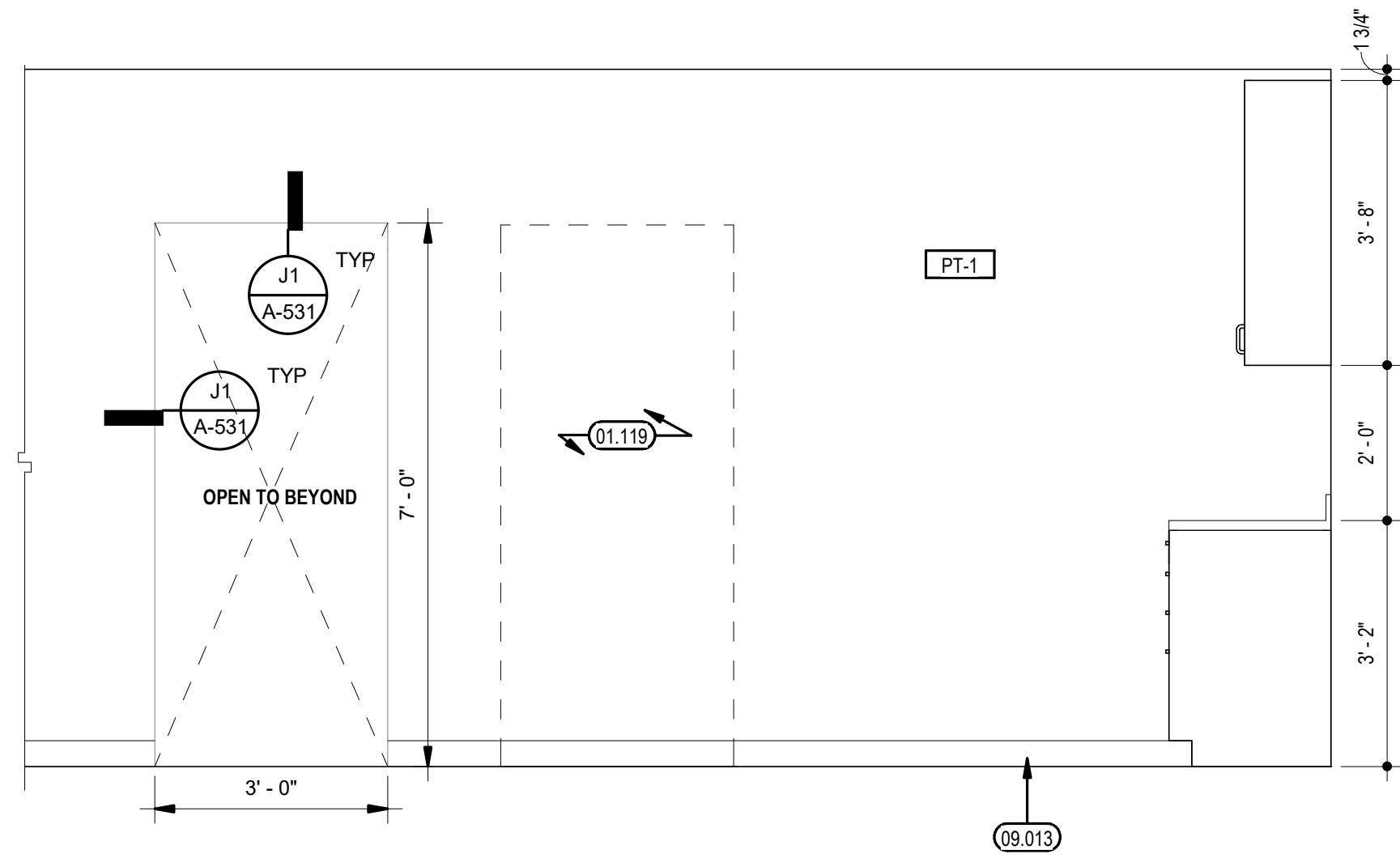
- SEE A-541 FOR CASEWORK DETAILS
- SEE A-601 FOR FINISH SCHEDULE



EAST KITCHEN ELEVATION **G15**
RE: A4/ A-402 1/2" = 1'-0"



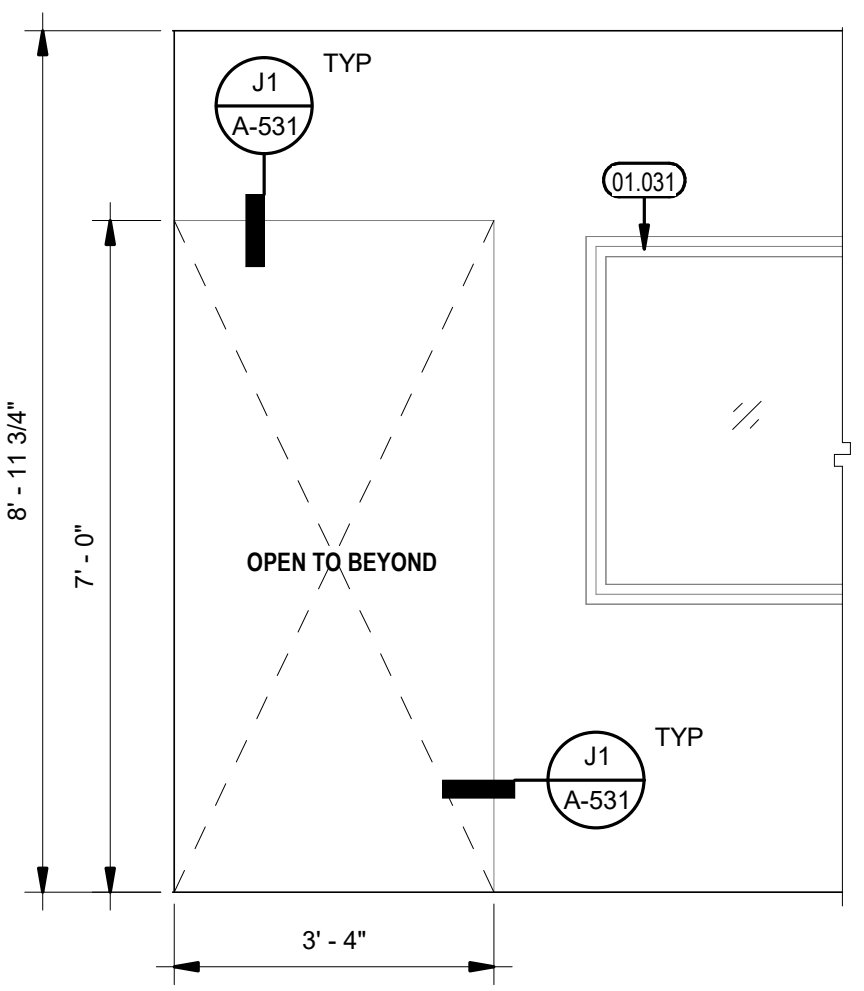
SOUTH KITCHEN ELEVATION **G11**
RE: A4/ A-402 1/2" = 1'-0"



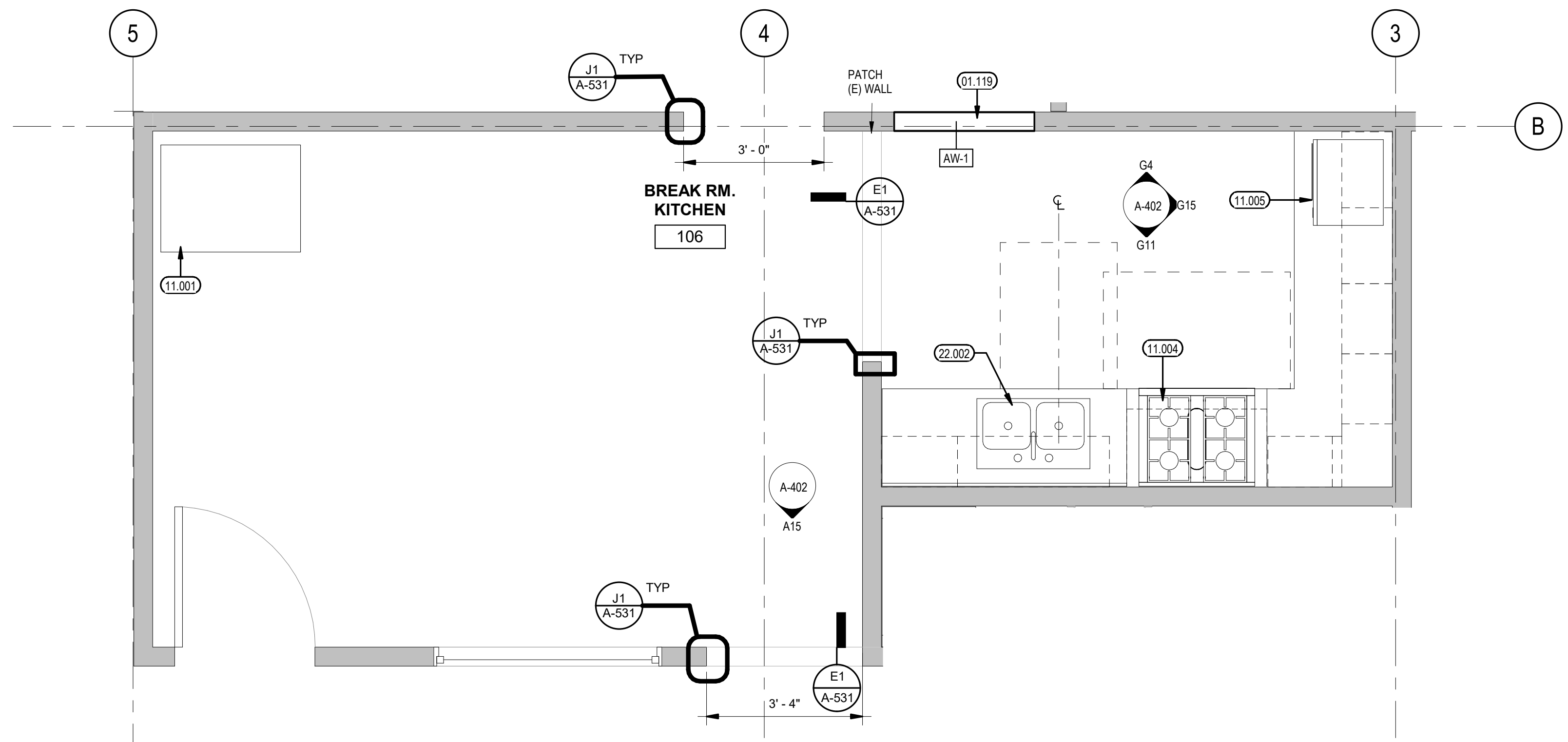
NORTH KITCHEN ELEVATION **G4**
RE: A4/ A-402 1/2" = 1'-0"

KEY NOTES

- 01.031 (E) WINDOW, TO REMAIN
- 01.119 (E) DOORS TO BE DEMOLISHED, INFILL WALL PER SCHEDULED WALL
- 09.013 RESILIENT BASE, RB-1
- 11.001 (N) REFRIGERATOR, PROVIDED AND INSTALLED OWNER
- 11.004 (N) RANGE, JGBS00DEKIREK GE SERIES 30" FREE-STANDING GAS RANGE, OR EQUAL
- 11.005 (N) MICROWAVE, PROVIDED AND INSTALLED BY OWNER
- 11.019 (N) HOOD, WHIRLPOOL 400 CFM 36 INCH WIDE WALL MOUNTED RANGE HOOD WITH LED TASK LIGHTING AND IN-LINE SMART BLOWER, MODEL: WW53UC6FS, OR EQUAL
- 12.013 16 GA BRUSHED STAINLESS-STEEL HEAT SHIELDS AT SIDE CABINETS
- 22.002 SS ACCESSIBLE SINK, SPD.
- PT-1 PAINT AS SCHEDULED



NEW OPENING TO HALLWAY ELEVATION **A15**
RE: A4/ A-402 1/2" = 1'-0"



ENLARGED KITCHEN PLAN **A4**
RE: A4/ A-121 1/2" = 1'-0"

LEGEND

- PT-2 FINISH TAG
- AW-2 WALL TAG
- KEYNOTES
- NO FRP WAINSCOTING IN THIS AREA
-PROVIDE LINOLEUM COVE BASE THROUGHOUT

G:\19725.00\Drawings\CITY OF MILPITAS FIRE STATION 2

Architect of Record
SHAH KAWASAKI ARCHITECTS
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Oakland, CA 94607
Consultant

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CITY OF MILPITAS
1126 YOSEMITE DRIVE, MILPITAS, CA

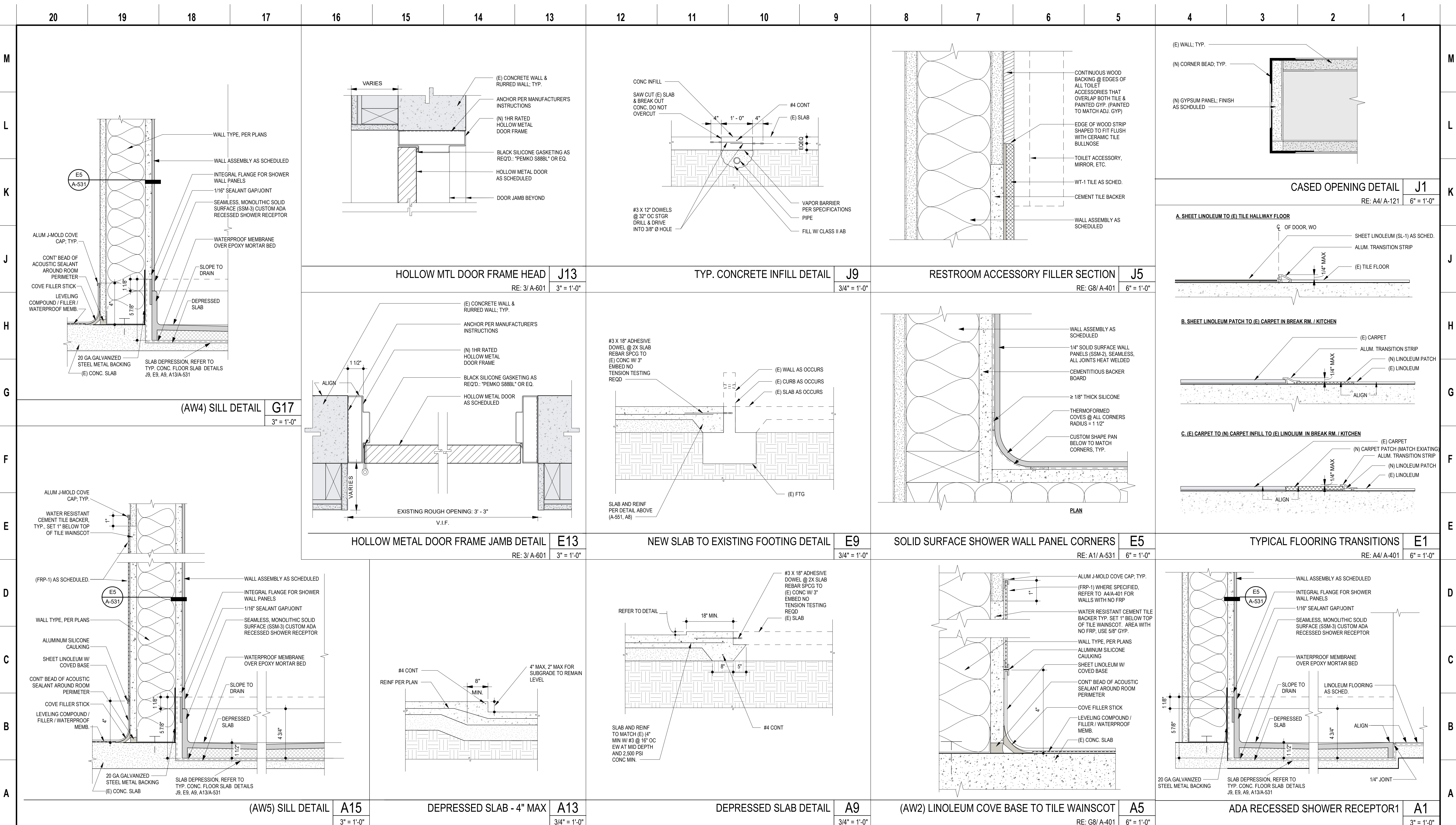
CITY OF MILPITAS FIRE STATION NO.2 TEMP. STATION

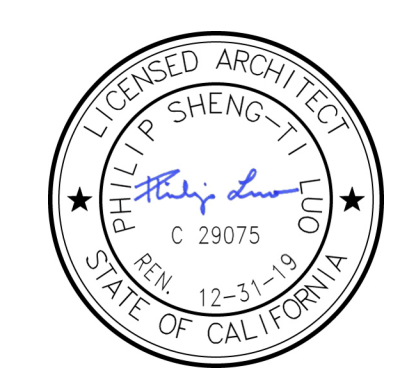
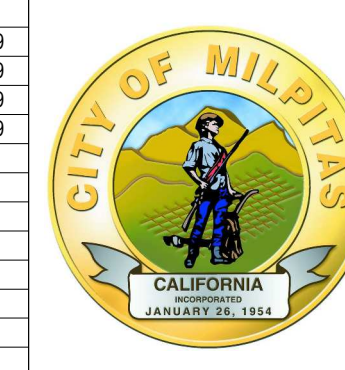
ENLARGED PLANS & ELEVATIONS - KITCHEN

RECOMMENDED FOR BIDDING BY: _____ DATE: _____
MICHAEL SILVEIRA, P.E., CIP MANAGER

City Project Number: 3447
REC. DWG NO. _____
Drawing No. **A-402**
Sheet No. _____ of _____

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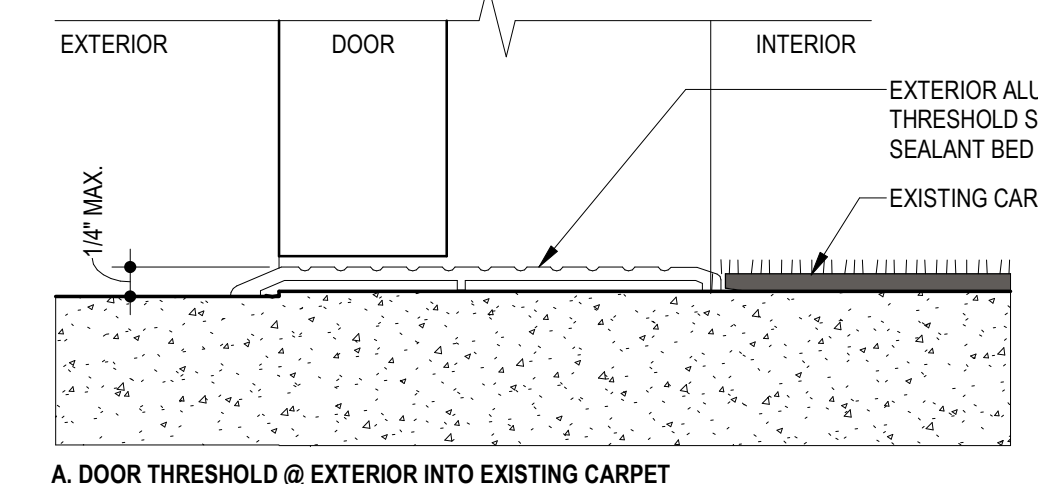
Architect of Record SHAH KAWASAKI ARCHITECTS 570 10th Street, Suite 201 Oakland, CA 94607 Consultant	DESIGNER STAMP: 	RECORD DRAWINGS: DESIGNER: _____ DATE: _____ PUBLIC WORKS INSPECTOR: _____ DATE: _____ UTILITY/FACILITY DEPT. HEAD: _____ DATE: _____ PROJECT ENGINEER: _____ DATE: _____ PUBLIC IMPROVEMENTS INITIALLY ACCEPTED BY THE CITY COUNCIL ON: _____ RES. NO. _____	REVISIONS <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>ISSUE DESCRIPTION</th> <th>ENGR. APR.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>100%</td> <td>DESIGN DEVELOPMENT</td> <td></td> <td>09/27/2019</td> </tr> <tr> <td></td> <td>ISSUED FOR PERMIT</td> <td></td> <td>10/09/2019</td> </tr> <tr> <td></td> <td>RE-ISSUE FOR PERMIT</td> <td></td> <td>10/24/2019</td> </tr> <tr> <td></td> <td>RESPONSE TO CITY PERMIT</td> <td></td> <td>11/11/2019</td> </tr> </tbody> </table>	NO.	ISSUE DESCRIPTION	ENGR. APR.	DATE	100%	DESIGN DEVELOPMENT		09/27/2019		ISSUED FOR PERMIT		10/09/2019		RE-ISSUE FOR PERMIT		10/24/2019		RESPONSE TO CITY PERMIT		11/11/2019	 CITY OF MILPITAS FIRE STATION NO.2 TEMP. STATION 1126 YOSEMITE DRIVE, MILPITAS, CA Drawing Title: INTERIOR DETAILS RECOMMENDED FOR BIDDING BY: _____ DATE: _____ MICHAEL SILVEIRA, P.E., CIP MANAGER	City Project Number: 3447 REC. DWG NO. _____ NOTE: If this drawing is not 36"x24" it has been revised from its original size and the scales noted on drawing/details are no longer applicable. © 2019 Shah Kawasaki Architects Drawing No. A-531 Sheet No. _____ of _____
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A Partitions

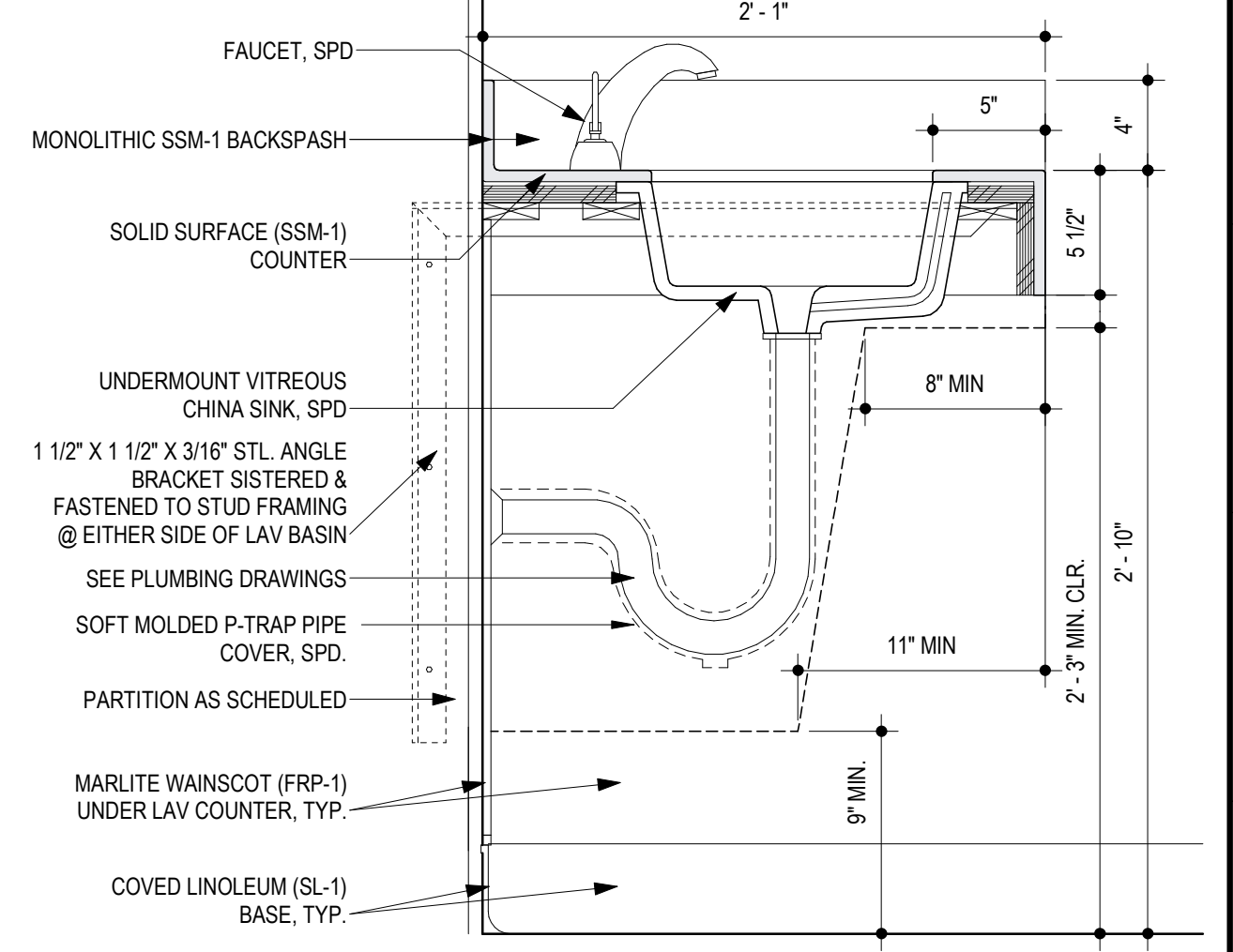
Steel Framed

Construction Detail	Description	Test Number	STC	Acoustical Performance Test Number	Reference Index
30 Minute Fire-Rated Construction 	Non-Loadbearing • 5/8" SHEETROCK UltraLight Panels FIRECODE 30 - 3-5/8" 25 gauge steel studs 24" o.c. - Optional insulation • Optional RC-1 channel	UL Des U407	44	RAL-TL11-078 Based on R-11 Fiberglass Sound Bat	A-1
				RAL-TL11-127 Based on 3" Mineral Wool Insulation	
				RAL-TL11-089 Based on R-11 Fiberglass sound bat, RC-1 channel or equivalent, one side	
				RAL-TL11-079 Based on double layer one side, R-11 fiberglass sound bat	
				49	
1 Hour Fire-Rated Construction 	Non-Loadbearing • 5/8" SHEETROCK FIRECODE Core gypsum panels, or 5/8" SHEETROCK UltraLight FIRECODE X panels or 5/8" FIREBROCK panels - 3-1/2" 25 gauge steel studs 24" o.c. - optional insulation - optional RC-1 channel	UL Des U419	40	USG-860808 Based on 5/8" SHEETROCK FIRECODE Core panels	A-2
				RAL-TL-11-068 Based on 5/8" SHEETROCK FIRECODE Core panels or 5/8" SHEETROCK UltraLight FIRECODE X panels, R-11 fiberglass sound bat	
				SA-870-717 Based on 5/8" SHEETROCK FIRECODE Core panels, 3" mineral fiber insulation	
				RAL-TL-11-071 Based on 5/8" SHEETROCK UltraLight FIRECODE X panels, R-11 fiberglass sound bat, RC-1 channel	
				52	
				RAL-TL-11-076 Based on 5/8" SHEETROCK FIRECODE panels, R-11 fiberglass sound bat, RC-1 channel	
				54	
				RAL-TL-11-076 Based on 5/8" SHEETROCK FIRECODE panels, 3" mineral fiber insulation, RC-1 channel	
				52	
				STC-120310 Based on 5/8" SHEETROCK FIRECODE panels, 4" 20 gauge steel studs 12" o.c., 3" mineral wool insulation, RC-1 channel	
52					
STC-120306 Based on 5/8" SHEETROCK FIRECODE panels, 4" 20 gauge steel studs 16" o.c., 3-1/2" glass fiber insulation, RC-1 channel					
54					
STC-120307 Based on 5/8" SHEETROCK FIRECODE panels, 4" 20 gauge steel studs 16" o.c., 4" mineral wool insulation, RC-1 channel					
53					
STC-120308 Based on 5/8" SHEETROCK FIRECODE panels, 4" 20 gauge steel studs 16" o.c., 3" mineral wool insulation, RC-1 channel					

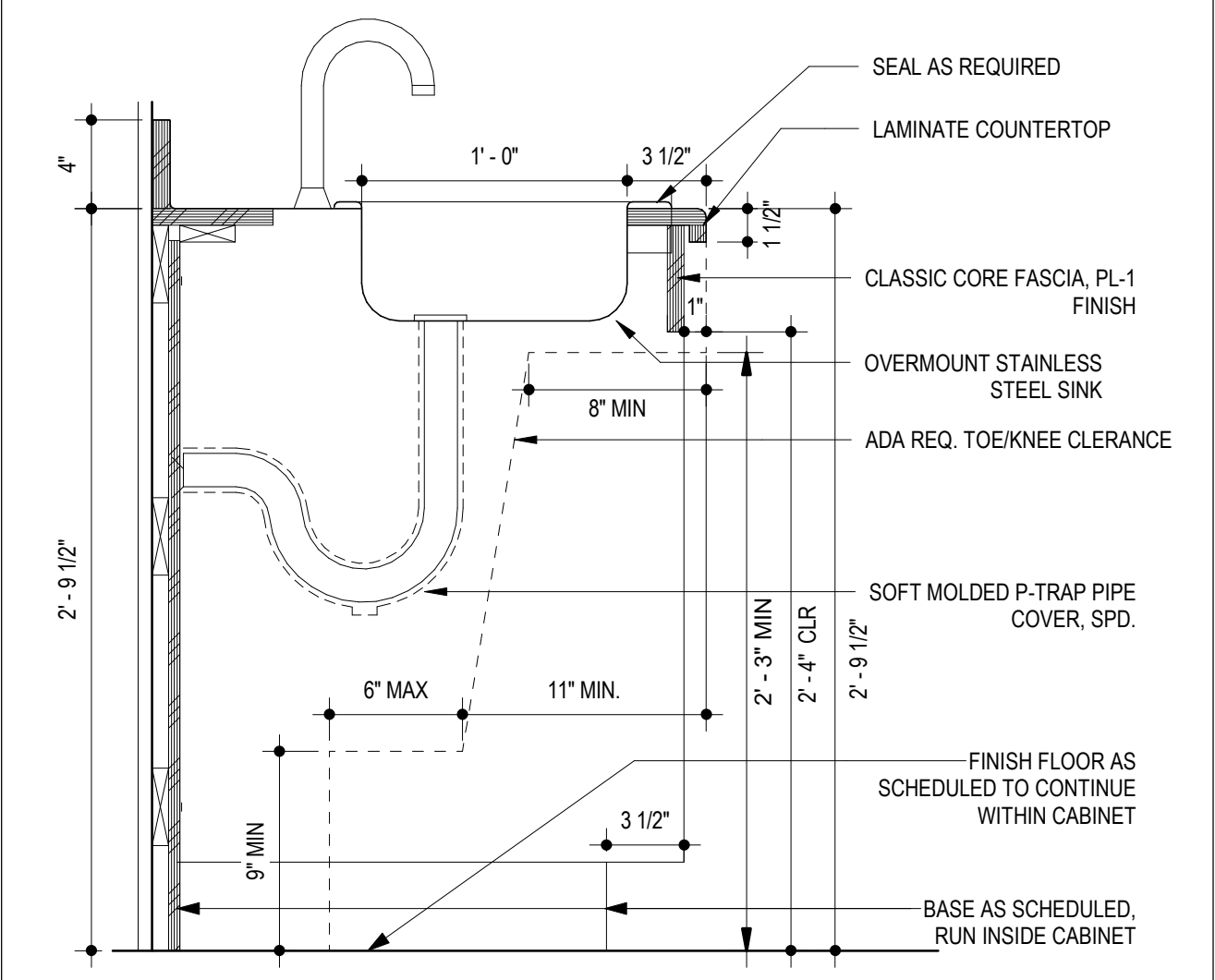
9 USG Fire-Resistant Assemblies



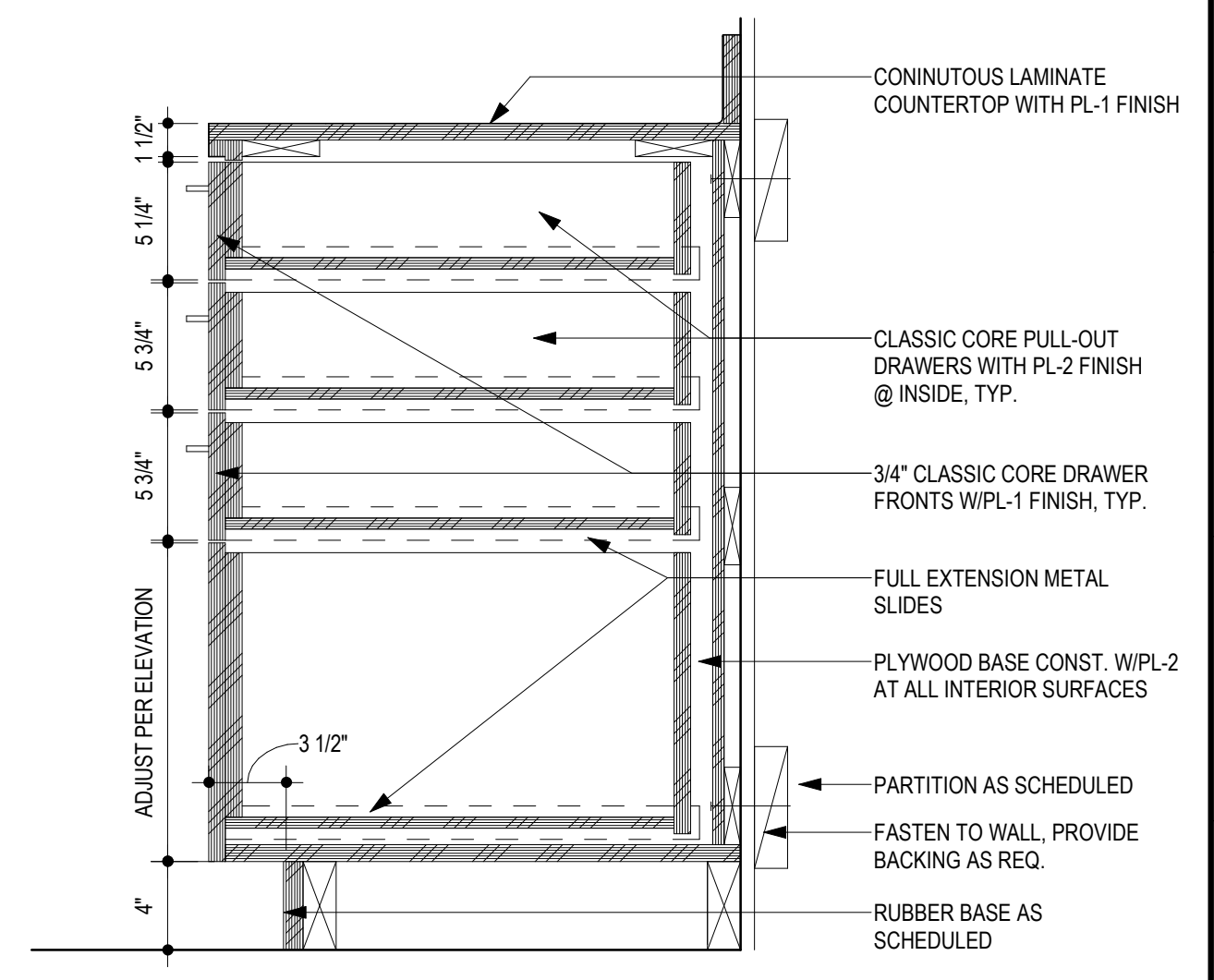
FRONT DOOR THRESHOLD J5
RE: 1/ A-601 6" = 1'-0"



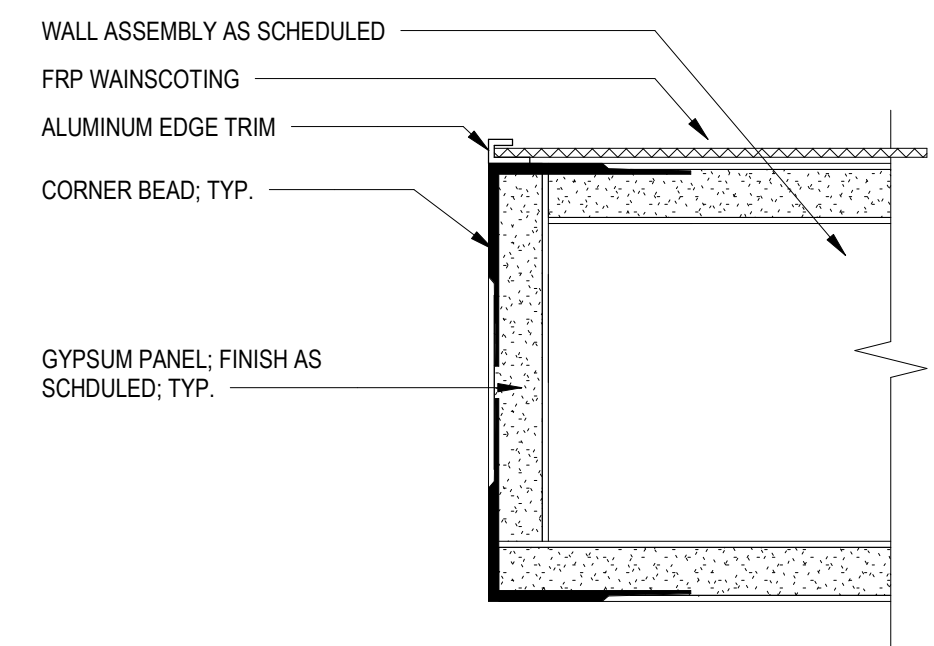
RESTROOM COUNTER W/LAV J1
RE: G8/ A-401 1 1/2" = 1'-0"



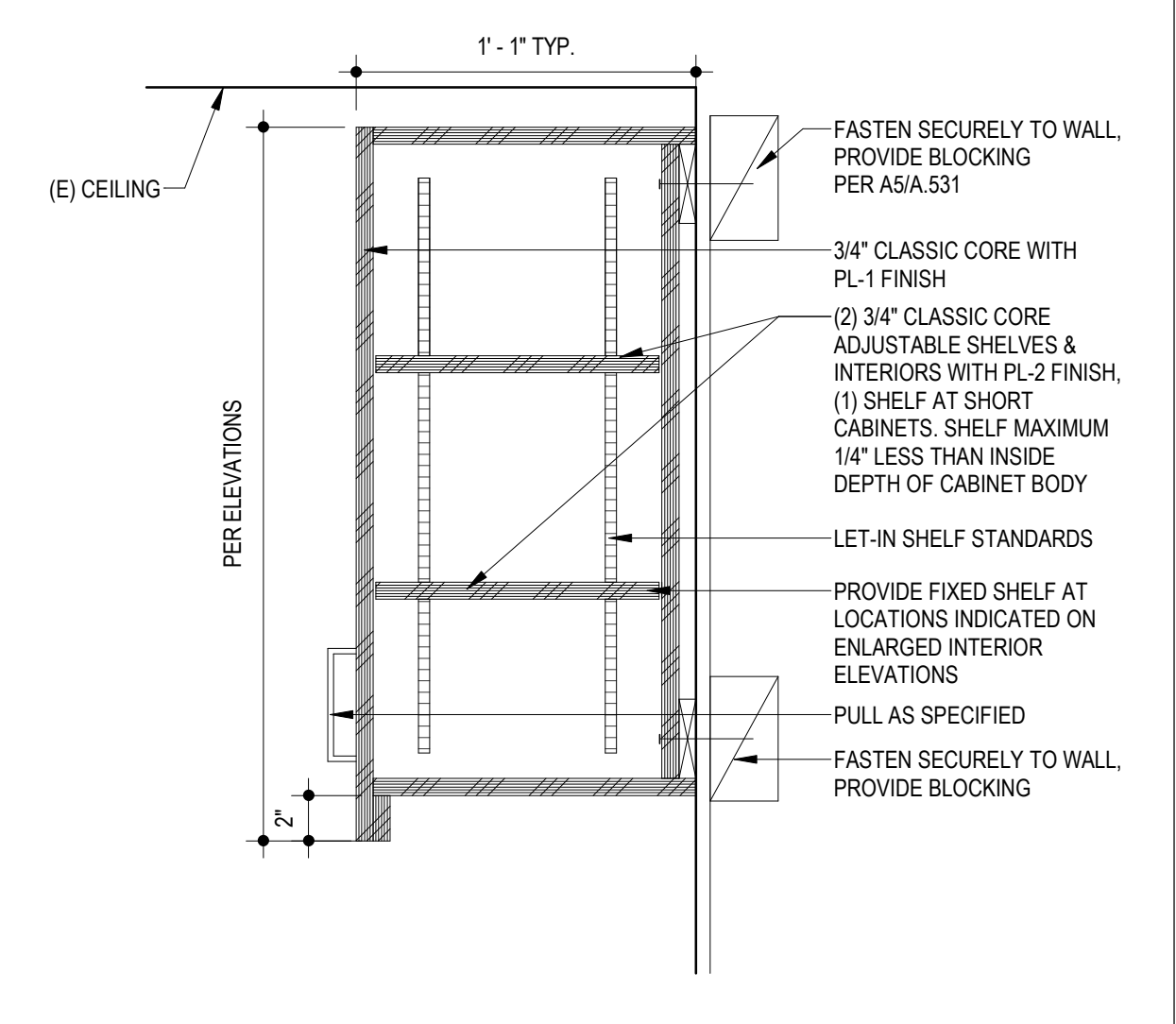
ACCESSIBLE KITCHEN SINK E5
RE: G11/ A-402 1 1/2" = 1'-0"



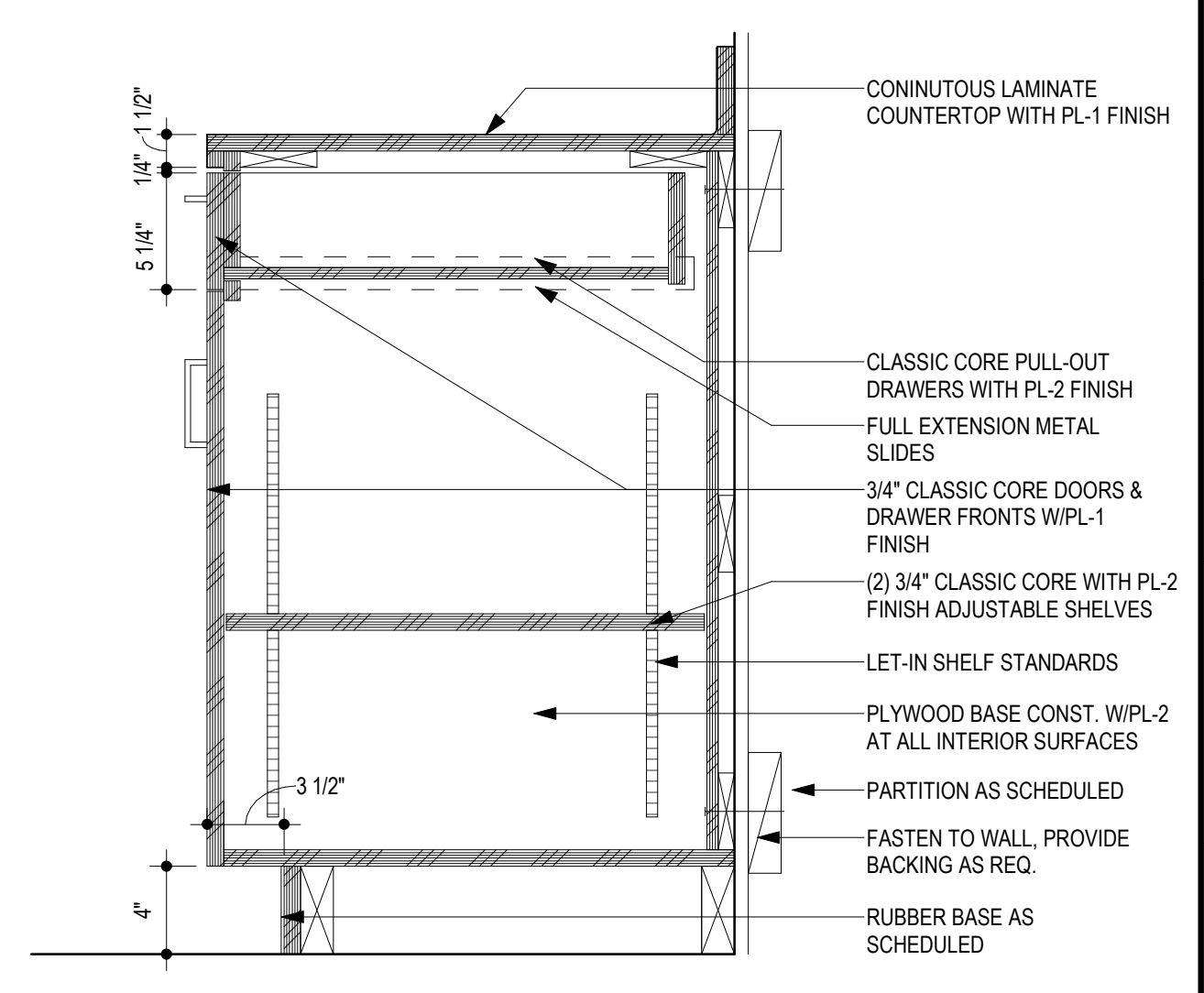
BASE CABINET W/ DRAWERS E1
RE: G11/ A-402 1 1/2" = 1'-0"



CASED OPENING DETAIL- WC 104 A9
RE: A4/ A-401 6" = 1'-0"



UPPER CABINET A5
RE: G11/ A-402 1 1/2" = 1'-0"



BASE CABINET W/ UPPER DRAWER A1
RE: G15/ A-402 1 1/2" = 1'-0"

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CITY OF MILPITAS FIRE STATION NO.2 TEMP. STATION
 1126 YOSEMITE DRIVE, MILPITAS, CA

Drawing Title
INTERIOR DETAILS / CASEWORK

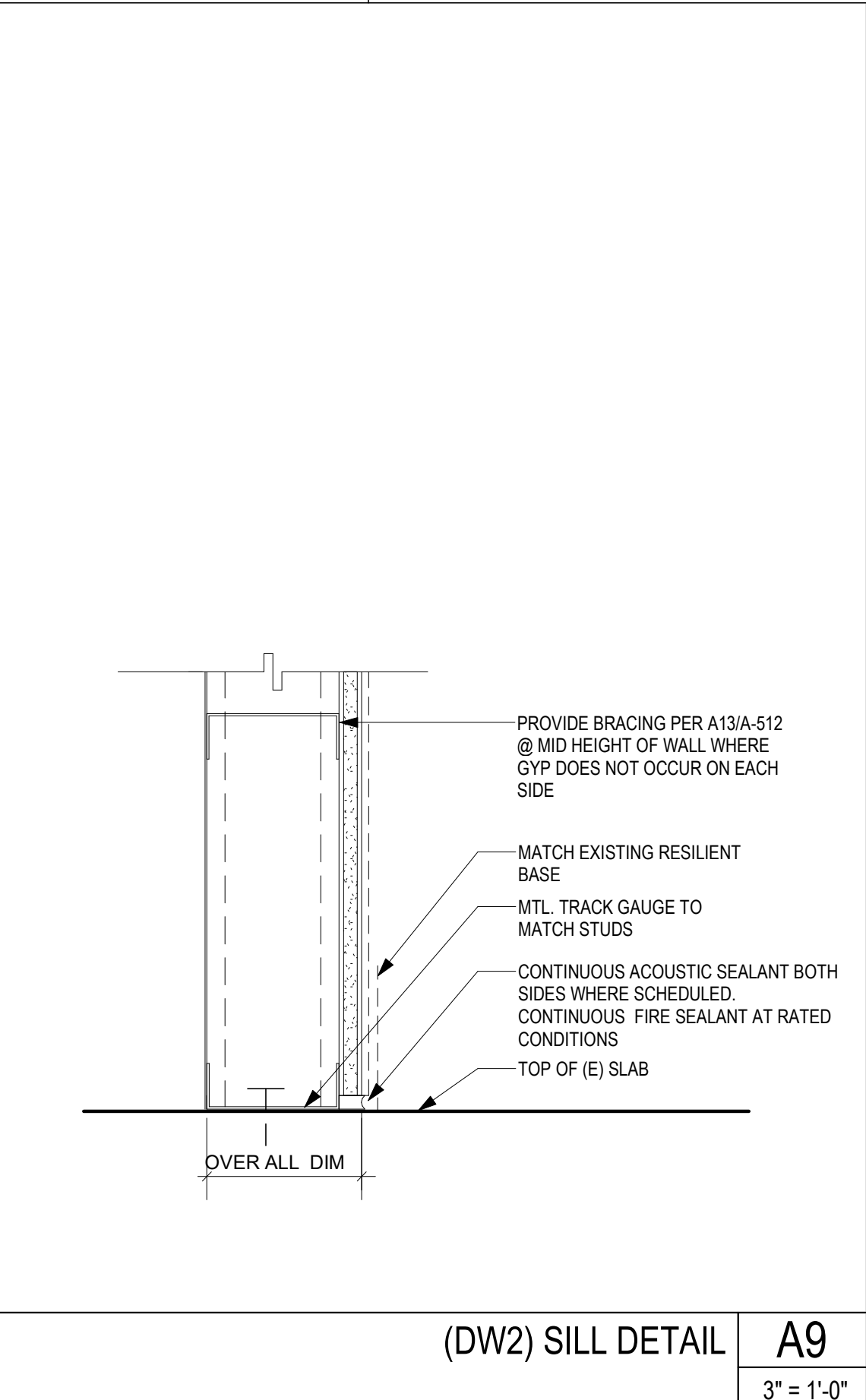
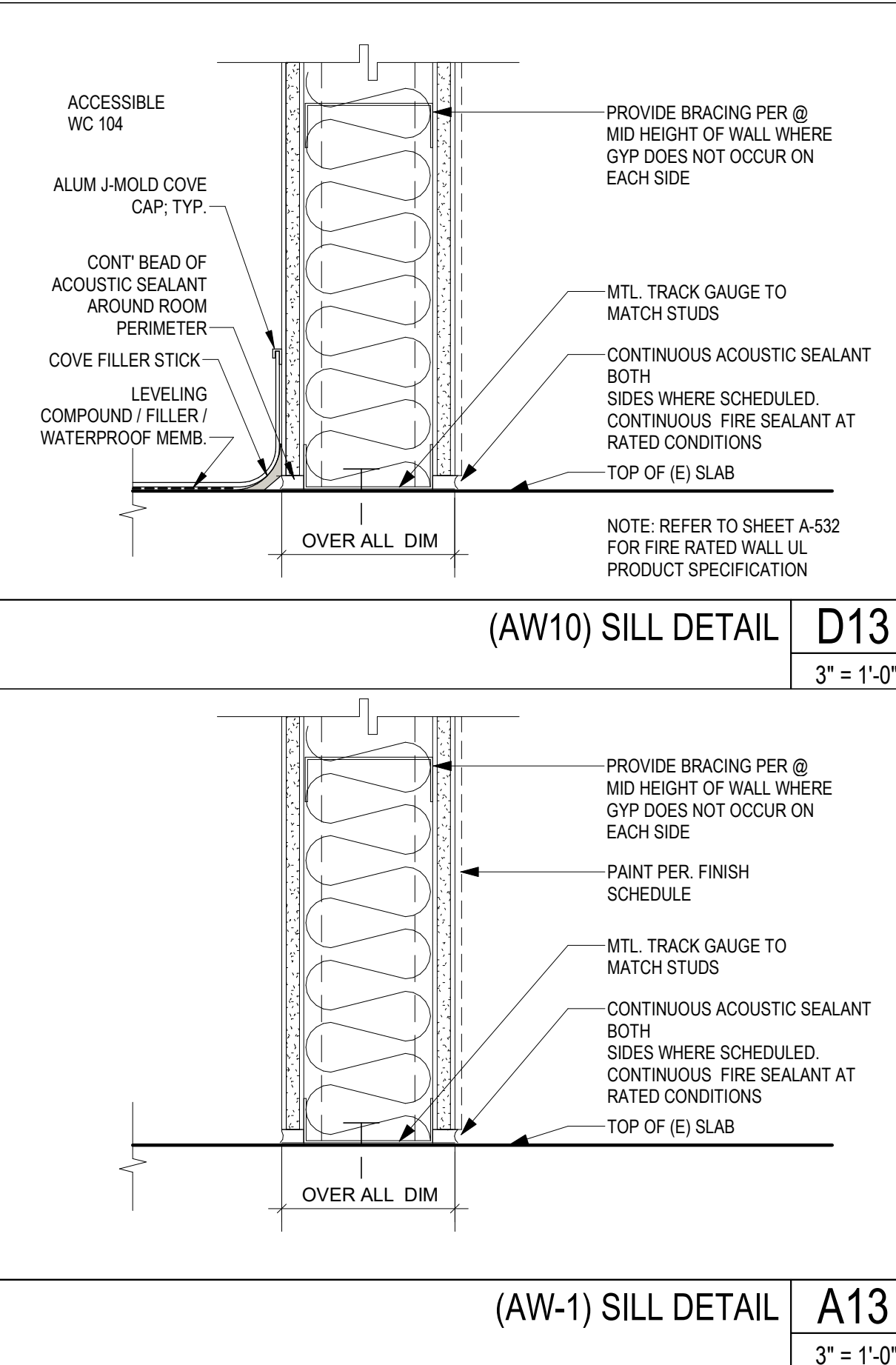
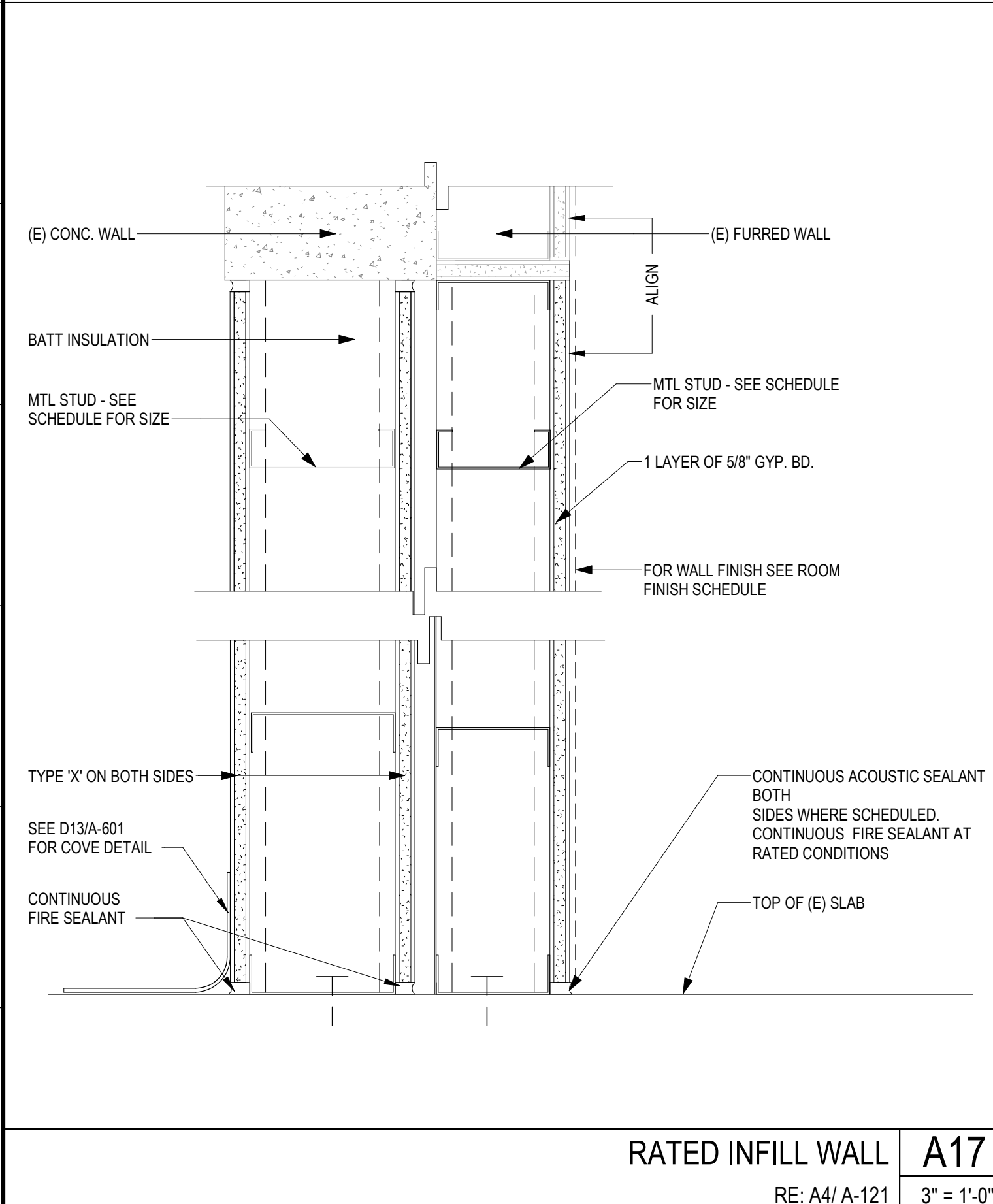
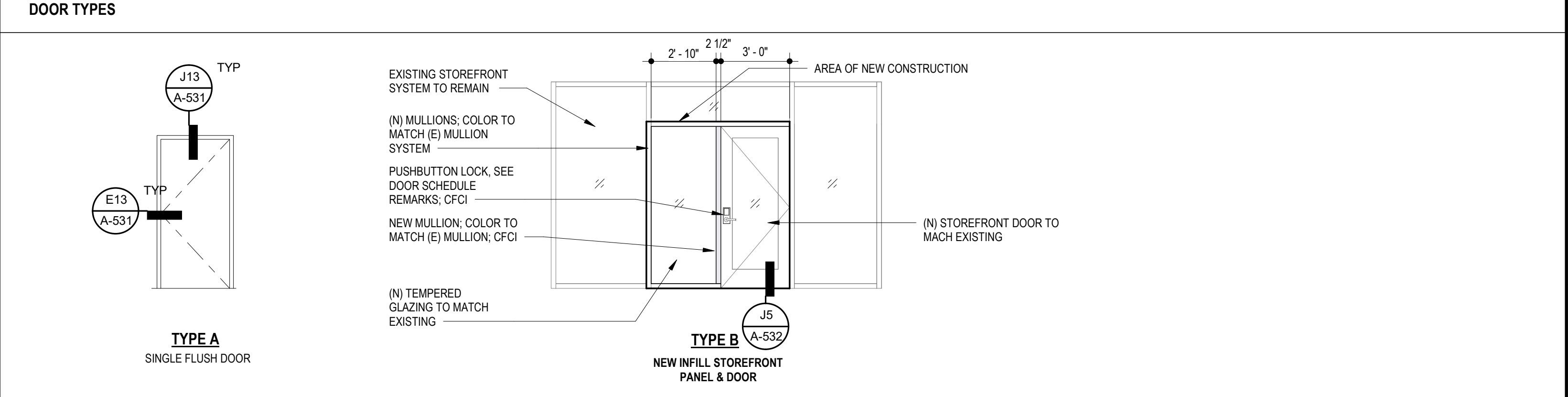
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 Drawing No. **A-532**
 Sheet No. _____ of _____

ROOM FINISH SCHEDULE							REMARKS
ROOM NO.	ROOM NAME	FLOOR FINISH	WALL BASE	WALL FINISH	CEILING FINISH		
101	CONFERENCE	EXISTING	EXISTING	EXISTING	EXISTING		PAINT PATCHED WALL W/ PT-1
102A	FLEX SPACE	EXISTING	EXISTING	EXISTING	EXISTING		
102B	FLEX SPACE	EXISTING	EXISTING	EXISTING	EXISTING		PATCH RESILIENT BASE / CARPET/ ACT CEILING WHERE WALL IS REMOVED
103	DAY RM.	EXISTING	EXISTING	EXISTING	EXISTING		
104	ACCESSIBLE WC	SL-1	SL-1	PT-2 / FRP-1	PT-2		REFER TO A4/A-401 FOR AREA WITHOUT FRP WAINSCOTING
105	(E) UNISEX WC	EXISTING	EXISTING	EXISTING	EXISTING		
106	BREAK RM. KITCHEN	EXISTING	RB-1	PT-1	EXISTING		PATCH RESILIENT BASE / LINOLEUM/ ACT CEILING WHERE WALL IS REMOVED
107	(E) BOILER RM.	EXISTING	EXISTING	EXISTING	EXISTING		
108A	HALLWAY	EXISTING	EXISTING	EXISTING	EXISTING		
109	GENERAL PURPOSE ROOM	EXISTING	EXISTING	EXISTING	EXISTING		
110	HALLWAY	EXISTING	EXISTING	EXISTING	EXISTING		
111	GENERAL PURPOSE ROOM	EXISTING	EXISTING	EXISTING	EXISTING		
112	(E) UTILITY / SERVER	EXISTING	EXISTING	EXISTING	EXISTING		
114	APP. BAY	EXISTING	EXISTING	EXISTING	EXISTING		

INTERIOR FINISH LEGEND						
MATERIAL	MANUFACTURER	MODEL/STYLE	SPECIES/COLOR/FINISH	SIZE	PRODUCT NOTES	
SSM-1	DUPONT	CORIAN	RAIN CLOUD	1/2" THICK	WC COUNTERTOP	
SSM-2	DUPONT	CORIAN	RAIN CLOUD	1/4" THICK	SHOWER WALL PANELS	
SSM-3	DUPONT	CORIAN	RAIN CLOUD	SEE PLANS, DETAILS, SPECS	CUSTOM SHOWER PAN	
FRP-1	MARLITE	INDURO FRP	D381 FASION GREY	3/32" THICK		
RB-1	ROPPE	PINNACLE. STANDARD 5/8" TOE BASE	150 DARK GRAY	4" H X 5/8" W	THERMOSET VULCANIZED RUBBER (TP)	
ACT-1	ARMSTRONG	ULTIMA OPEN SQUARE LAY-IN	FACTORY-APPLIED WHITE LATEX PAINT	24" X 24"		
AL-1			ANODIZED ALUMINUM			
PL-1	WILSONART	LAMINATE	KENSINGTON MAPLE 10776-60 (FINISH 60 MATTE)	EXTERIOR CABINET FACE		
PL-2	WILSONART	LAMINATE	D431-60 ALABASTER	INTERIOR CABINET FACE		
WD-3	MASONITE	NATURAL BIRCH (QUARTER SAWN)	CLEAR STAIN			
PT-1	KELLY MOORE		WHITE SHADOW 45, EGGSHELL			
PT-2	KELLY MOORE		WHITE SHADOW 45, SEMI-GLOSS			
SL-1	FORBO	ETERNAL STEP / AQUA	180092 / ELEPHANT LRV 17	2MM THICK	COVE TO BE FORMED USING FORBO'S ACC06 COVE STICK	

DOOR SCHEDULE																
DOOR NO.	FIRE RATING	HW SET	DOOR ACCESS CONTROL	TYPE	OPENING		THICK	DOOR		FRAME			DETAILS		REMARK	
					WIDTH	HEIGHT		MATL	FINISH	MATL	PUSH	PULL	JAMB	HEAD		SILL
102A	-	-	-	B	3'-0"	7'-0"		MATCH	EXISTING						DOOR HANDLE: DORMAKABA L1011, SIMPLEX HEAVY DUTY MECHANICAL PUSHBUTTON LEVER LOCK	
104A	-	-	-	A	3'-0"	7'-0"	2"								DOOR CLOSER: LCN 4040XP SERIES CLOSER, PER. SPECIFICATIONS	
110A	1HR	-	-	A	3'-0"	7'-0"	2"	HM	PT-2	HM	PT-2	PT-2	E13-A535	J13/A-535	E1/A-535	DOOR CLOSER: LCN 4040XP SERIES CLOSER, PER. SPECIFICATIONS. DOOR AND FRAME TO BE LISTED AND LABELED BY UNDERWRITERS LABORATORIES AND TESTED IN ACCORDANCE WITH UL 9, UL 10B, AND UL 10C
114	-	-	-	-	3'-0"	7'-0"	2"								EXISTING DOOR. TO REMAIN	



WALL STUD TYPE	STUD SIZE	WIDTH	FIRE RATING	STC	LISTING	INSULATION	COMMENTS
DW2	4"	4 1/8"				ACOUSTIC	SILL DETAIL - A9/A-601

STUD TYPE	STUD SIZE	WIDTH	FIRE RATING	STC	LISTING	INSULATION	COMMENTS
AW2	4"	4 3/4"				ACOUSTIC	SILL DETAIL - A5/A-531
AW4	4"	4 3/4"				ACOUSTIC	SILL DETAIL - G17/A-531
AW5	4"	5"				ACOUSTIC	SILL DETAIL - A13/A-531
AW10	6"	6 3/4"	1HR		U419	ACOUSTIC	SILL DETAIL - D13/A-601
AW-1	4"	4 3/4"				ACOUSTIC	SILL DETAIL - A13/A-601

<p>Architect of Record SHAH KAWASAKI ARCHITECTS 570 10th Street, Suite 201 Oakland, CA 94607</p>	<p>DESIGNER STAMP: </p>	<p>RECORD DRAWINGS:</p> <p>DESIGNER: _____ DATE: _____ PUBLIC WORKS INSPECTOR: _____ DATE: _____ UTILITY/FACILITY DEPT. HEAD: _____ DATE: _____ PROJECT ENGINEER: _____ DATE: _____ PUBLIC IMPROVEMENTS INITIALLY ACCEPTED BY THE CITY COUNCIL ON: _____ RES. NO. _____</p>	<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>ISSUE DESCRIPTION</th> <th>ENGR. APR.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>100%</td> <td>DESIGN DEVELOPMENT</td> <td></td> <td>09/27/2019</td> </tr> <tr> <td></td> <td>ISSUED FOR PERMIT</td> <td></td> <td>10/09/2019</td> </tr> <tr> <td></td> <td>RE-ISSUE FOR PERMIT</td> <td></td> <td>10/24/2019</td> </tr> <tr> <td></td> <td>RESPONSE TO CITY PERMIT</td> <td></td> <td>11/11/2019</td> </tr> </tbody> </table>	NO.	ISSUE DESCRIPTION	ENGR. APR.	DATE	100%	DESIGN DEVELOPMENT		09/27/2019		ISSUED FOR PERMIT		10/09/2019		RE-ISSUE FOR PERMIT		10/24/2019		RESPONSE TO CITY PERMIT		11/11/2019	<p></p>	<p>City Project Number: 3447 REC. DWG NO. _____ Drawing Title: CITY OF MILPITAS FIRE STATION NO.2 TEMP. STATION 1126 YOSEMITE DRIVE, MILPITAS, CA FINISHES, DOOR, PARTITIONS & WINDOWS RECOMMENDED FOR BIDDING BY: _____ DATE: _____ MICHAEL SILVEIRA, P.E., CIP MANAGER</p> <p>NOTE: If this drawing is not 36"x24" it has been revised from its original size and the scales noted on drawing/details are no longer applicable. © 2019 Shah Kawasaki Architects</p> <p>SCALE: AS NOTED Drawing No. A-601 Sheet No. _____ of _____</p>
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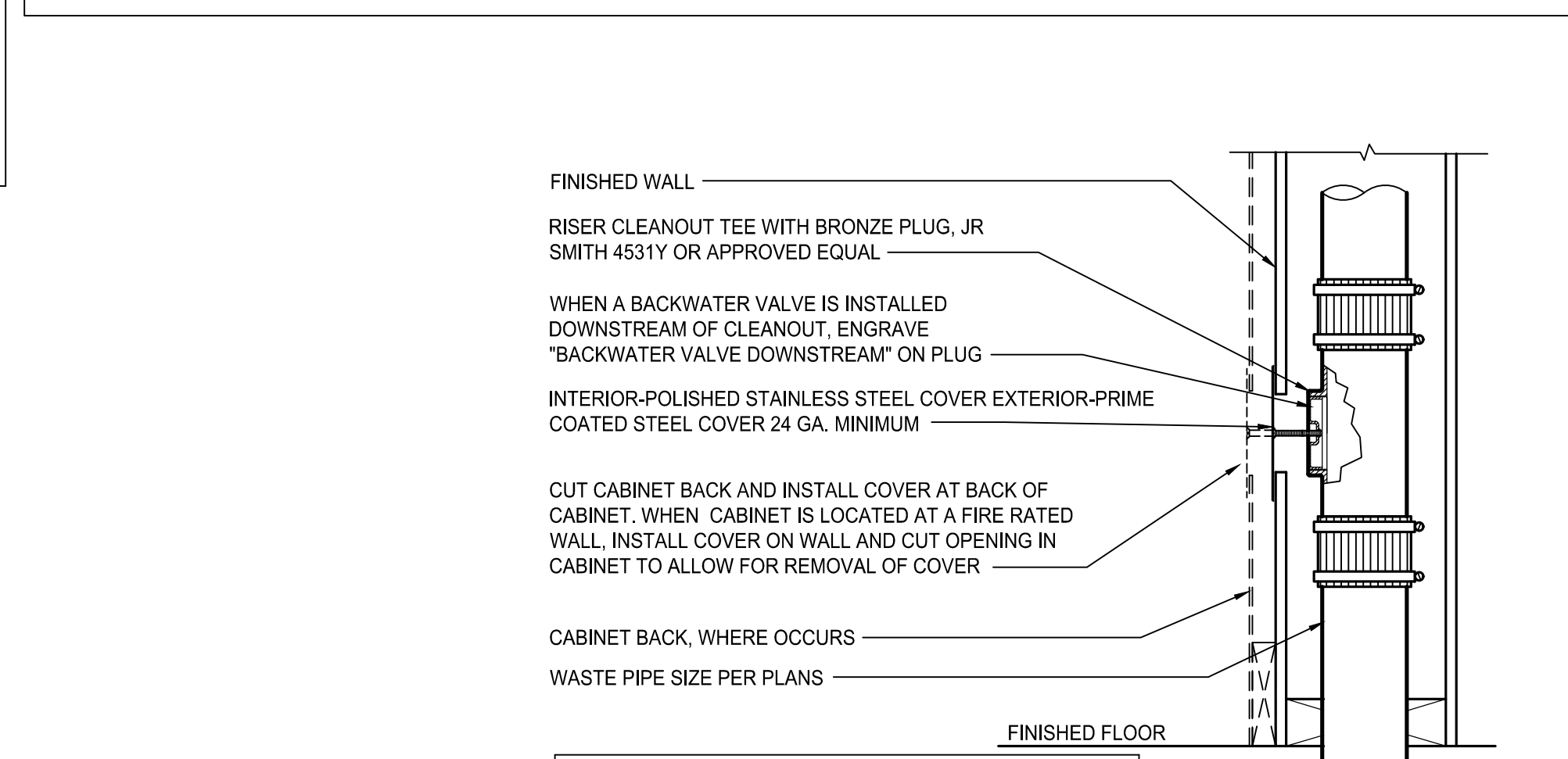
PLUMBING MATERIAL SPECIFICATIONS
SANITARY WASTE AND VENT PIPING
1. ABOVE AND BELOW GRADE
A) ABOVE AND BELOW GRADE:
1. SCHEDULE 40 SOLID WALL PVC PLASTIC DWV PIPE WITH SOLVENT-CEMENTED DRAINAGE PATTERN FITTINGS...

COMMERCIAL PLUMBING FIXTURE SCHEDULE
TAG FIXTURE BRANCH SIZE REMARKS
GOB-1 GAS OUTLET BOX NA NA NA NA
LAV-1 LAVATORY - ADA 2" 1-1/2" 1/2" 1/2"

PLUMBING ABBREVIATIONS
ABV ABOVE
ADA AMERICANS WITH DISABILITIES ACT
AFF ABOVE FINISHED FLOOR
AG ABOVE GRADE
AHJ AUTHORITY HAVING JURISDICTION

PLUMBING GENERAL NOTES
1. COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING CODES:
2016 CALIFORNIA ADMINISTRATIVE CODE (CAC); PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2016 CALIFORNIA BUILDING CODE (CBC); PART 2, TITLE 24 CCR
2016 CALIFORNIA ELECTRICAL CODE (CEC); PART 3, TITLE 24 CCR

DOMESTIC WATER PIPING
A. BELOW GRADE (WATER SERVICE)
1. 3" NPS AND SMALLER, SCHEDULE 40 PVC PLASTIC PIPE AND FITTINGS, ASTM D1785, D2466, WITH SOLVENT CEMENT JOINTS ASTM D2654.



3 FIRE STOPPING
NTS
1. Wall Assembly - The 1 or 2 hr fire rated gypsum board/insulated wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, U400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

2 ADA SHOWER
NTS
CLEANOUTS IN PIPING 2" OR LESS SHALL HAVE A CLEARANCE OF NOT LESS THAN 12" IN FRONT OF THE CLEANOUT. CLEANOUTS IN PIPING LARGER THAN 2" INCHES SHALL HAVE A CLEARANCE OF NOT LESS THAN 18".

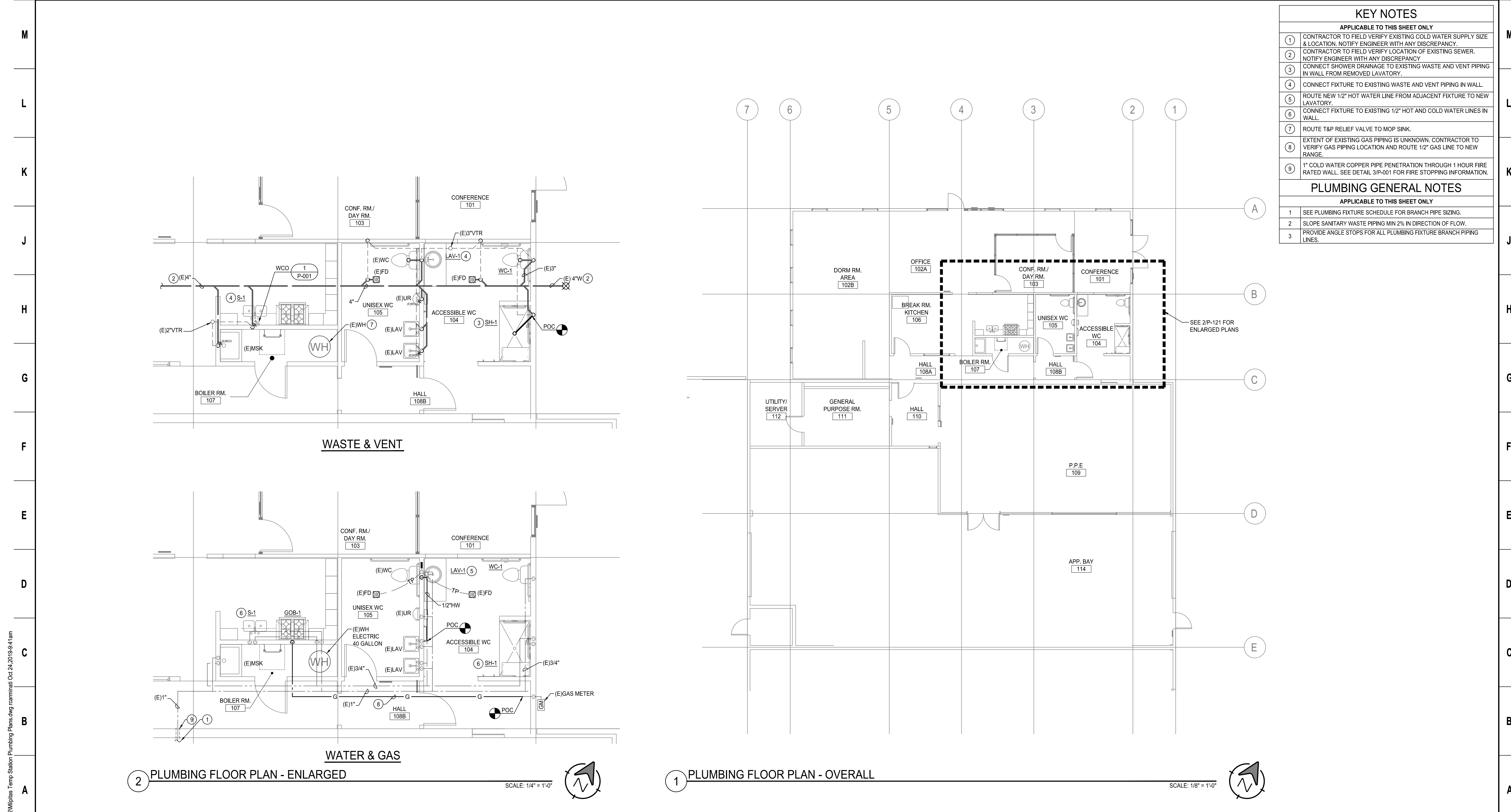
PLUMBING LEGEND
SYMBOL ABBREVIATION DESCRIPTION
COTG CLEAN OUT THROUGH GRADE
FCO FLOOR CLEAN OUT
GM GAS METER

PROJECT TEAM LIST
TITLE NAME DESK NUMBER EMAIL ADDRESS
PRINCIPAL IN CHARGE BRIAN STARRETT 805.540.5358 BSTARRETT@3CENG.COM

SHEET INDEX
SHEET NUMBER SHEET TITLE
P-001 PLUMBING GENERAL
P-121 PLUMBING FLOOR PLAN
PD-101 PLUMBING FLOOR PLAN - DEMOLITION

PIPE INSULATION SIZING TABLE
FLUID TEMPERATURE RANGE (°F) CONDUCTIVITY RANGE (IN BTU-IN/CH PER HOUR PER SQUARE FOOT PER °F) INSULATION MEAN RATING TEMPERATURE (°F)

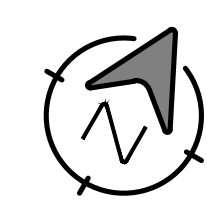
Architect of Record: SHAH KAWASAKI ARCHITECTS
DESIGNER STAMP: M 34068
RECORD DRAWINGS: DESIGNER, PUBLIC WORKS INSPECTOR, UTILITY/FACILITY DEPT. HEAD, PROJECT ENGINEER
REVISIONS: NO. ISSUE DESCRIPTION ENGR. APR. DATE
CITY OF MILPITAS FIRE STATION NO.2 TEMP. STATION
PLUMBING GENERAL
RECOMMENDED FOR BIDDING BY: WOO JAE KIM, PE, MDA, CIP MANAGER



- KEY NOTES**
- APPLICABLE TO THIS SHEET ONLY
- CONTRACTOR TO FIELD VERIFY EXISTING COLD WATER SUPPLY SIZE & LOCATION. NOTIFY ENGINEER WITH ANY DISCREPANCY.
 - CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING SEWER. NOTIFY ENGINEER WITH ANY DISCREPANCY.
 - CONNECT SHOWER DRAINAGE TO EXISTING WASTE AND VENT PIPING IN WALL FROM REMOVED LAVATORY.
 - CONNECT FIXTURE TO EXISTING WASTE AND VENT PIPING IN WALL.
 - ROUTE NEW 1/2" HOT WATER LINE FROM ADJACENT FIXTURE TO NEW LAVATORY.
 - CONNECT FIXTURE TO EXISTING 1/2" HOT AND COLD WATER LINES IN WALL.
 - ROUTE T&P RELIEF VALVE TO MOP SINK.
 - EXTENT OF EXISTING GAS PIPING IS UNKNOWN. CONTRACTOR TO VERIFY GAS PIPING LOCATION AND ROUTE 1/2" GAS LINE TO NEW RANGE.
 - 1" COLD WATER COPPER PIPE PENETRATION THROUGH 1 HOUR FIRE RATED WALL. SEE DETAIL 3/P-001 FOR FIRE STOPPING INFORMATION.
- PLUMBING GENERAL NOTES**
- APPLICABLE TO THIS SHEET ONLY
- SEE PLUMBING FIXTURE SCHEDULE FOR BRANCH PIPE SIZING.
 - SLOPE SANITARY WASTE PIPING MIN 2% IN DIRECTION OF FLOW.
 - PROVIDE ANGLE STOPS FOR ALL PLUMBING FIXTURE BRANCH PIPING LINES.

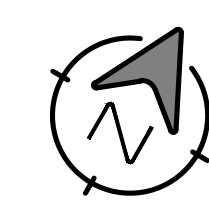
2 PLUMBING FLOOR PLAN - ENLARGED

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



1 PLUMBING FLOOR PLAN - OVERALL

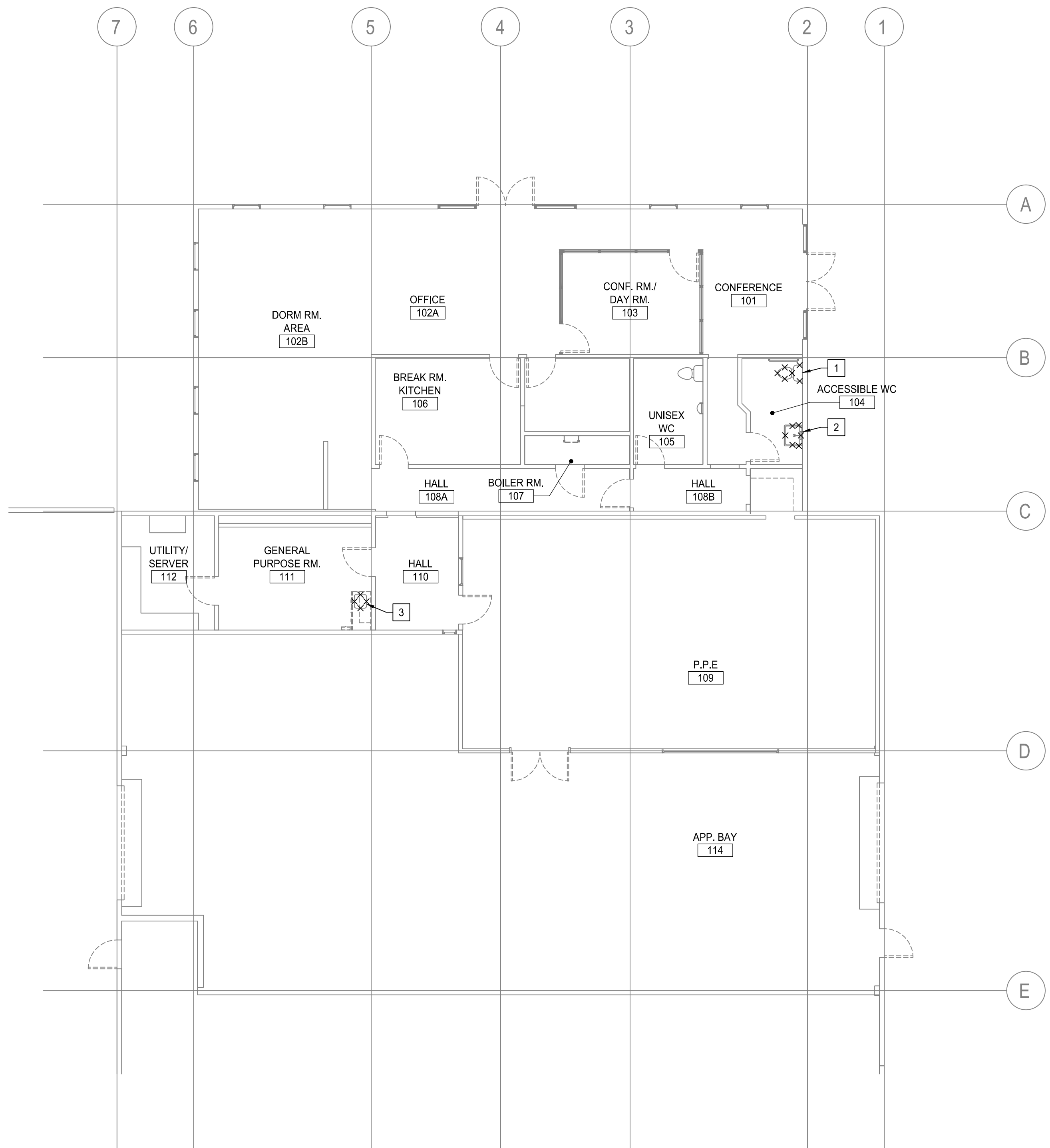
SCALE: 1/8" = 1'-0"



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<p>Architect of Record SHAH KAWASAKI ARCHITECTS 570 10th Street, Suite 201 Oakland, CA 94607</p> <p>Consultant 3C ENGINEERING</p>	<p>DESIGNER STAMP: </p>	<p>RECORD DRAWINGS:</p> <p>DESIGNER: _____ DATE: _____</p> <p>PUBLIC WORKS INSPECTOR: _____ DATE: _____</p> <p>UTILITY/ FACILITY DEPT. HEAD: _____ DATE: _____</p> <p>PROJECT ENGINEER: _____ DATE: _____</p> <p>PUBLIC IMPROVEMENTS INITIALLY ACCEPTED BY THE CITY COUNCIL ON: _____ RES. NO. _____</p>	<p>DRAWN BY: _____ DATE: _____</p> <p>CHECKED BY: _____ DATE: _____</p> <p>DESIGNED BY: _____ DATE: _____</p>	<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>ISSUE DESCRIPTION</th> <th>ENGR. APR</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>100% DESIGN DEVELOPMENT</td> <td></td> <td>09/27/2019</td> </tr> <tr> <td>2</td> <td>ISSUED FOR PERMIT</td> <td></td> <td>10/08/2019</td> </tr> <tr> <td>3</td> <td>RE-ISSUE FOR PERMIT</td> <td></td> <td>10/24/2019</td> </tr> </tbody> </table>	NO.	ISSUE DESCRIPTION	ENGR. APR	DATE	1	100% DESIGN DEVELOPMENT		09/27/2019	2	ISSUED FOR PERMIT		10/08/2019	3	RE-ISSUE FOR PERMIT		10/24/2019	<p style="text-align: center;"></p> <p style="text-align: center;">CITY OF MILPITAS FIRE STATION NO.2 TEMP. STATION</p> <p style="text-align: center;">1126 YOSEMITE DRIVE, MILPITAS, CA</p> <p>Drawing Title PLUMBING FLOOR PLAN</p> <p>RECOMMENDED FOR BIDDING BY: _____ DATE: _____ MICHAEL SILVEIRA, P.E., CIP MANAGER</p>	<p>City Project Number: 3447</p> <p>REC. DWG NO.</p> <p>SCALE: AS NOTED</p> <p>Drawing No. P-121</p> <p>Sheet No. of _____</p>
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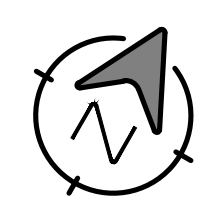
DEMOLITION KEY NOTES	
APPLICABLE TO THIS SHEET ONLY	
1	WATER CLOSET TO BE REMOVED AND REPLACED WITH NEW FIXTURE. REMOVE STOP AND SUPPLY.
2	LAVATORY TO BE REMOVED, CAP 2"WASTE, 1-1/2" VENT AND 1/2" HOT AND COLD WATER FOR FUTURE CONNECTION TO SHOWER.
3	REMOVE FIXTURE AND ALL ASSOCIATED PIPING, STOPS AND SUPPLY. CAP WASTE BELOW FLOOR, VENT ABOVE CEILING AND WATER PIPING IN WALL.



DEMOLITION PLAN STATEMENT
 THIS DEMOLITION PLAN WAS PREPARED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER DOES NOT REPRESENT THAT ALL ITEMS WHICH MAY REQUIRE DEMOLITION HAVE BEEN SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE SITE AND THE CONTRACT DOCUMENTS AND TO PERFORM ALL DEMOLITION AND RECONSTRUCTION WHICH MAY BE REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK. DISPOSE OF ALL EQUIPMENT PER THE OWNER'S DIRECTION WHILE COMPLYING WITH ALL LOCAL CODES AND ORDINANCES.

PLUMBING FLOOR PLAN - DEMOLITION

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



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Architect of Record SHAH KAWASAKI ARCHITECTS 570 10th Street, Suite 201 Oakland, CA 94607 Consultant	DESIGNER STAMP: 	RECORD DRAWINGS: DESIGNER: _____ DATE: _____ PUBLIC WORKS INSPECTOR: _____ DATE: _____ UTILITY/ FACILITY DEPT. HEAD: _____ DATE: _____ PROJECT ENGINEER: _____ DATE: _____ PUBLIC IMPROVEMENTS INITIALLY ACCEPTED BY THE CITY COUNCIL ON: _____ RES. NO. _____	DRAWN BY: _____ DATE: _____ CHECKED BY: _____ DATE: _____ DESIGNED BY: _____ DATE: _____	REVISIONS			City Project Number: 3447																																				
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Drawing No.						PD-101																																					
Sheet No. of						Sheet No. of																																					

M L K J H G F E D C B A

MECHANICAL LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
∅	DIA	DIAMETER
⊕		ELECTRICAL PHASE
☒		CEILING MOUNTED SUPPLY OR OUTSIDE AIR DIFFUSER
☒		CEILING MOUNTED RETURN AIR GRILLE
☒		CEILING MOUNTED EXHAUST AIR GRILLE
▬		SIDEWALL MOUNTED SUPPLY AIR DIFFUSER, RETURN AIR GRILLE, LOUVER
	24X12, 24X12 FO	RECTANGULAR, FLAT OVAL DUCT
	24X12L, 12ØL	LINED DUCT
		RECTANGULAR SUPPLY / OA, RETURN, EXHAUST / RELIEF DUCT PASSING THROUGH PLAIN OF VIEW
		RECTANGULAR SUPPLY / OA, RETURN, EXHAUST / RELIEF DUCT TURNING DOWN
	12Ø	ROUND DUCT
		ROUND DUCT TURNING DOWN, ROUND DUCT TURNING UP
		90° ELBOW WITH TURNING VANES
	FSD	COMBINATION FIRE/SMOKE DAMPER
	FSC	FAN SPEED CONTROLLER, SUBSCRIPT INDICATES ASSOCIATED FAN
	EF-X	SINGLE POLE SWITCH, SUBSCRIPT INDICATES ASSOCIATED FAN
		ROOF CAP
		CEILING EXHAUST FAN
	POC OR POD	POINT OF CONNECTION, POINT OF DISCONNECTION

MECHANICAL ABBREVIATIONS			
AC	AIR CONDITION, AIR CONDITIONING, AIR CONDITIONED	HZ	HERTZ
ABV	ABOVE	IDU	INDOOR UNIT
AFB	ABOVE FINISHED FLOOR	IWC	INCHES OF WATER COLUMN
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	KW	KILOWATT
AHJ	AUTHORITY HAVING JURISDICTION	LBS	POUNDS
AHU	AIR HANDLING UNIT	LWT	LEAVING WATER TEMPERATURE
ALUM	ALUMINUM	MBH	1000 BRITISH THERMAL UNITS PER HOUR
AMB	AMBIENT	MCA	MINIMUM CIRCUIT AMPS
ARCH	ARCHITECT, ARCHITECTURAL	MFGR	MANUFACTURER OR MANUFACTURER
ARI	AMERICAN REFRIGERATION INSTITUTE	MIN	MINIMUM
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS	MUA	MAKE-UP AIR
BDD	BACK DRAFT DAMPER	(N)	NEW
BOD	BASIS OF DESIGN	NL	NOT LISTED
BEL	BELOW	NOM	NOMINAL
BHP	BREAK HORSE POWER	NTS	NOT TO SCALE
BLDG	BUILDING	OA	OUTSIDE AIR
BTUH	BRITISH THERMAL UNIT PER HOUR	OAI	OUTSIDE AIR INTAKE
CA	COMBUSTION AIR	OBD	OPPOSED BLADE DAMPER
CD	CONDENSATE DRAIN	ODU	OUTDOOR UNIT
CFD	CEILING FIRE DAMPER	OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
CFM	CUBIC FEET PER MINUTE	PD	PRESSURE DROP
CONT	CONTINUATION	PSI	POUNDS PER SQUARE INCH
CSD	CEILING SMOKE DAMPER	RA	RETURN AIR
DB	DRY BULB TEMPERATURE	REFRIG	REFRIGERANT, REFRIGERATION
DN	DOWN	RM	ROOM
DSA	DIVISION OF THE STATE ARCHITECT	RPM	REVOLUTIONS PER MINUTE
(E)	EXISTING	SA	SUPPLY AIR
EA	EXHAUST AIR	SEER	SEASONAL ENERGY EFFICIENCY RATION
EC	EVAPORATIVE COOLER	SHT	SHEET
EDB	ENTERING DRY BULB TEMPERATURE	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
EER	ENERGY EFFICIENCY RATIO	SOV	SHUT OFF VALVE
EFF	EFFICIENCY	SP	STATIC PRESSURE
ELEC	ELECTRICAL	SS	STAINLESS STEEL
ESP	EXTERNAL STATIC PRESSURE	SSE	STEADY STATE EFFICIENCY
EWB	ENTERING WET BULB	SST	SATURATED SUCTION TEMPERATURE
EWT	ENTERING WATER TEMPERATURE	TEMP	TEMPORARY, TEMPERATURE
FA	FROM ABOVE	TSP	TOTAL STATIC PRESSURE
FC	FLEXIBLE CONNECTION	TYP	TYPICAL
FD	FIRE DAMPER	TXV	THERMAL EXPANSION VALVE
FLA	FULL LOAD AMPS	UON	UNLESS OTHERWISE NOTED
FPM	FEET PER MINUTE	UTR	UP TO OR UP THROUGH ROOF
FSC	FAN SPEED CONTROLLER	VD	VOLUME DAMPER
FSD	FIRE/SMOKE DAMPER	VES	VEHICLE EXHAUST SYSTEM
GA	GAGE, GAUGE	VRF	VARIABLE REFRIGERANT VOLUME
GALV	GALVANIZED	WB	WET BULB TEMPERATURE
GPM	GALLONS PER MINUTE	WC	WATER COLUMN
GYP	GYPSUM	WG	WATER GAUGE
HD	HEAD	WT	WEIGHT EXPRESSED IN POUNDS
HP	HORSE POWER		

MECHANICAL GENERAL NOTES

1 THESE DRAWINGS ARE A GENERAL GRAPHIC PRESENTATION OF THE WORK. DUCTWORK, PIPING, AND EQUIPMENT, AS SHOWN, ARE SCHEMATIC. FABRICATE AND INSTALL BASED ON ACTUAL FIELD MEASUREMENT. COORDINATE WITH OTHER TRADES. ADHERE TO LOCATIONS AS CLOSELY AS POSSIBLE. VARY RUNS OR SHAPE OF DUCTWORK AS REQUIRED TO MEET STRUCTURAL AND OTHER INTERFERENCES AS REQUIRED BY THE ARCHITECT. PROVIDE A COMPLETE SET OF SHOP DRAWINGS REFLECTING ACTUAL DIMENSIONS, ACCESS REQUIREMENTS, AND DETAILS BASED UPON THE ACTUAL EQUIPMENT PROCURED. MAINTAIN AN UP TO DATE SET OF AS-BUILT DRAWINGS AT THE JOB SITE.

2 THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL ITEMS RELATED TO MECHANICAL SYSTEMS WITH THE WORK OF OTHER TRADES BEFORE PROCEEDING WITH PROCURING OR FABRICATION OF EQUIPMENT, DUCTWORK, PIPING ETC. ITEMS TO BE COORDINATED SHALL INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

GRILLS, REGISTERS AND DIFFUSERS SHALL BE COORDINATED WITH THE REFLECTED CEILING PLAN.

DUCTWORK LOCATIONS AND POTENTIAL INTERFERENCES WITH STRUCTURAL MEMBERS, FRAMING, FIRE SPRINKLER LINES, PLUMBING WASTE LINES, CABLE TRAYS AND CONDUIT.

OPENINGS REQUIRED IN WALLS, FLOORS OR CEILINGS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND/OR FRAMING CONTRACTOR PRIOR TO THE START OF CONSTRUCTION TO AVOID REWORK. ANY REWORK REQUIRED SHALL BE AT NO ADDITIONAL COST TO THE OWNER.

PRIOR TO BIDDING THE PROJECT THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR TO DETERMINE WHO WILL BE RESPONSIBLE FOR PROCURING AND INSTALLING MOTOR STARTERS, CONDUIT FOR LOW VOLTAGE CONTROLS AND LINE VOLTAGE CONTROL DEVICES, SUCH AS SINGLE POLE SWITCHES.

ACCESS TO VOLUME DAMPERS FOR BALANCING. ACCESS TO ALL EQUIPMENT, AS WELL AS PLATFORM AND CURB LOCATIONS.

CONSTRUCTION OF PLATFORMS AND SHAPED RUNNERS OR OTHER MEANS TO MOUNT CURBS LEVEL. ALL PLATFORMS AND CURBS SHALL BE LEVEL UNLESS OTHERWISE NOTED OR DETAILED ON THE MECHANICAL PLANS.

3 COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING CODES:

2016 CALIFORNIA ADMINISTRATIVE CODE (CAC); PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

2016 CALIFORNIA BUILDING CODE (CBC); PART 2, TITLE 24 CCR

2016 CALIFORNIA ELECTRICAL CODE (CEC); PART 3, TITLE 24 CCR

2016 CALIFORNIA MECHANICAL CODE (CMC); PART 4, TITLE 24 CCR

2016 CALIFORNIA PLUMBING CODE (CPC); PART 5, TITLE 24 CCR

2016 CALIFORNIA ENERGY CODE (CEC); PART 6, TITLE 24 CCR

2016 CALIFORNIA FIRE CODE (CFC); PART 9, TITLE 24 CCR

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN); PART 11, TITLE 24 CCR

REPORT DEFICIENCIES WITHIN THIRTY (30) DAYS UPON AUTHORIZATION TO PROCEED.

4 REVIEW ALL DRAWINGS AND SPECIFICATIONS INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL. ANY QUESTIONS SHALL BE BROUGHT UP, IN WRITING, TO THE ATTENTION OF THE ENGINEER BEFORE THE START OF CONSTRUCTION.

5 ALL EQUIPMENT SHALL BE INSTALLED WITH SUFFICIENT ACCESS TO CONTROLS, FILTERS, ELECTRIC MOTORS, ETC. ACCESS CLEARANCE SHALL BE 30" OR AS REQUIRED BY THE EQUIPMENT MANUFACTURER, WHICH EVER IS GREATER. CONTRACTORS SHALL PROVIDE ACCESS PANELS WHERE REQUIRED. WHERE VERTICAL SPACE ALLOWS, INSTALL DUCTWORK THAT IS IN CLOSE PROXIMITY TO MECHANICAL, ELECTRICAL OR ANY OTHER ITEM THAT REQUIRES ACCESS HIGH IN THE SPACE FOR EASE OF ACCESS.

6 HANDLE, STORE AND INSTALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.

7 BRACE AND SUPPORT PIPES, CONDUIT, AND DUCTWORK IN ACCORDANCE TO SMACNA GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL AND PLUMBING PIPING SYSTEM.

8 REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS, REGISTERS, GRILLES, AND ACCESS PANELS.

9 ALL DUCT DIMENSIONS, AS SHOWN ON MECHANICAL DRAWINGS ARE CLEAR INSIDE DIMENSIONS. INCREASE OUTER DUCT DIMENSION AS REQUIRED TO ACCOUNT FOR THE THICKNESS OF INTERNAL LINING WHERE APPLICABLE.

10 INSULATION AND FLEXIBLE DUCT SHALL COMPLY WITH STATE FIRE MARSHALL CRITERIA AND SHALL NOT EXCEED FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50 PER ASTM-84, NFPA-223, AND UL 723.

11 INSULATE PIPING AND DUCTWORK IN ACCORDANCE TO THE GOVERNING CODES.

12 COMMISSION AND START-UP THE MECHANICAL SYSTEMS TO ASSURE A COMPLETE AND OPERATIONAL HVAC SYSTEM IN ACCORDANCE WITH ASHRAE AND NEBB.

13 ALL SQUARE ELBOWS IN SUPPLY DUCTWORK SHALL HAVE TURNING VANES. PROVIDE MANUAL VOLUME DAMPER AT EACH BRANCH DUCT TAKE-OFF SERVING EACH AIR TERMINAL DEVICE. PROVIDE BALANCING DAMPERS FOR EACH MAIN DUCT TAKE-OFF IN ACCORDANCE TO SMACNA IN ORDER TO ASSURE A COMPLETELY BALANCED SYSTEM.

14 CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE MOUNTED AT THE HEIGHTS GIVEN BY SECTION 11B-308.1 OF THE 2016 CBC. NOTIFY THE ARCHITECT IMMEDIATELY IF THE MOUNTING HEIGHTS REQUIRED BY THE 2016 CBC CANNOT BE OBTAINED AT THE LOCATION WHERE THE CONTROL DEVICE IS SHOWN ON THE MECHANICAL FLOOR PLANS.

15 ALL EQUIPMENT SHALL BE LABELED AS TO THE SPACE THEY ARE SERVING.

16 HABITABLE SPACE SHALL BE PROVIDED WITH A HEATING SYSTEM CAPABLE OF MAINTAINING A MINIMUM INDOOR TEMPERATURE OF 68°F AT A POINT 3 FEET ABOVE THE FLOOR PER 2016 CBC 1204.

17 MATERIALS EXPOSED WITHIN ANY SPACE BEING USED AS AN AIR PLENUM SHALL BE NON COMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50, WHEN TESTED AS A COMPOSITE PRODUCT IN ACCORDANCE WITH ONE OF THE FOLLOWING TEST METHODS: NFPA 255, METHOD OF TEST OF SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS, ASTM E84, SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS, OR UL 723, TEST FOR SURFACE BURNING CHARACTERISTIC OF BUILDING MATERIALS.

18 ANY MECHANICAL EQUIPMENT THAT PROVIDES POWER TO A ENERGIZED ACCESSORY MUST BE PROVIDED WITH A NAMEPLATE THAT REFLECTS THE ELECTRICAL CHARACTERISTICS OF THE COMPLETE SYSTEM AS INSTALLED WITH THE ENERGIZED ACCESSORY. NO EXCEPTIONS.

PROJECT TEAM LIST			
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MECHANICAL DESIGNER	JOSH MORTIMER	805.221.0316	JMORTIMER@3CENG.COM
PLUMBING DESIGNER	RANDY CARMINATI	805.540.2812	RCARMINATI@3CENG.COM

SHEET INDEX	
SHEET NUMBER	SHEET TITLE
M-001	MECHANICAL GENERAL
M-002	MECHANICAL DETAILS
M-121	MECHANICAL FLOOR PLAN

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Architect of Record
SHAH KAWASAKI ARCHITECTS
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 Oakland, CA 94607
 Consultant

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DESIGNER: _____ DATE: _____

PUBLIC WORKS INSPECTOR: _____ DATE: _____

UTILITY/FACILITY DEPT. HEAD: _____ DATE: _____

PROJECT ENGINEER: _____ DATE: _____

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	RE-ISSUE FOR PERMIT		10/24/2019
	RESPONSE TO CITY PERMIT		11/11/2019



CITY OF MILPITAS FIRE STATION NO.2 TEMP. STATION

1126 YOSEMITE DRIVE, MILPITAS, CA

City Project Number: 3447

REC. DWG NO. _____

SCALE: AS NOTED

Drawing No. **M-001**

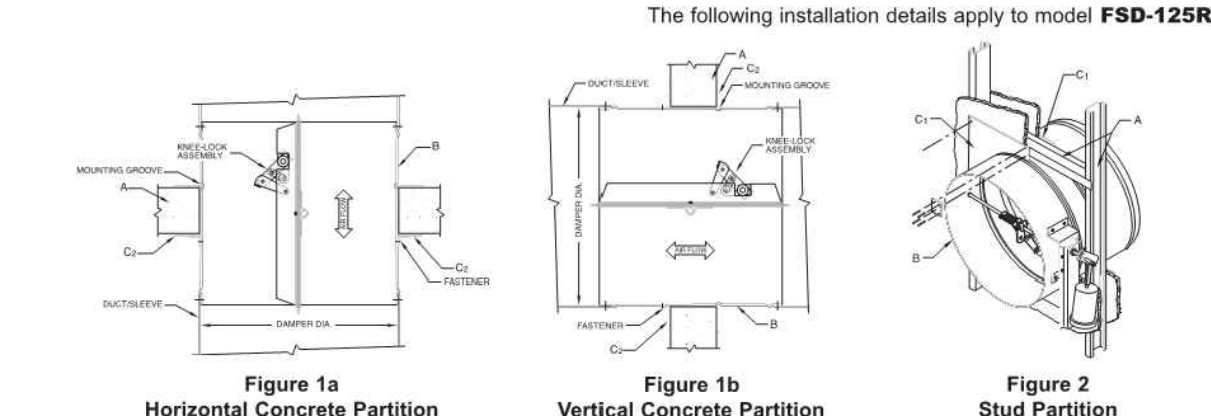
Sheet No. _____ of _____

RECOMMENDED FOR BIDDING BY: _____ DATE: _____

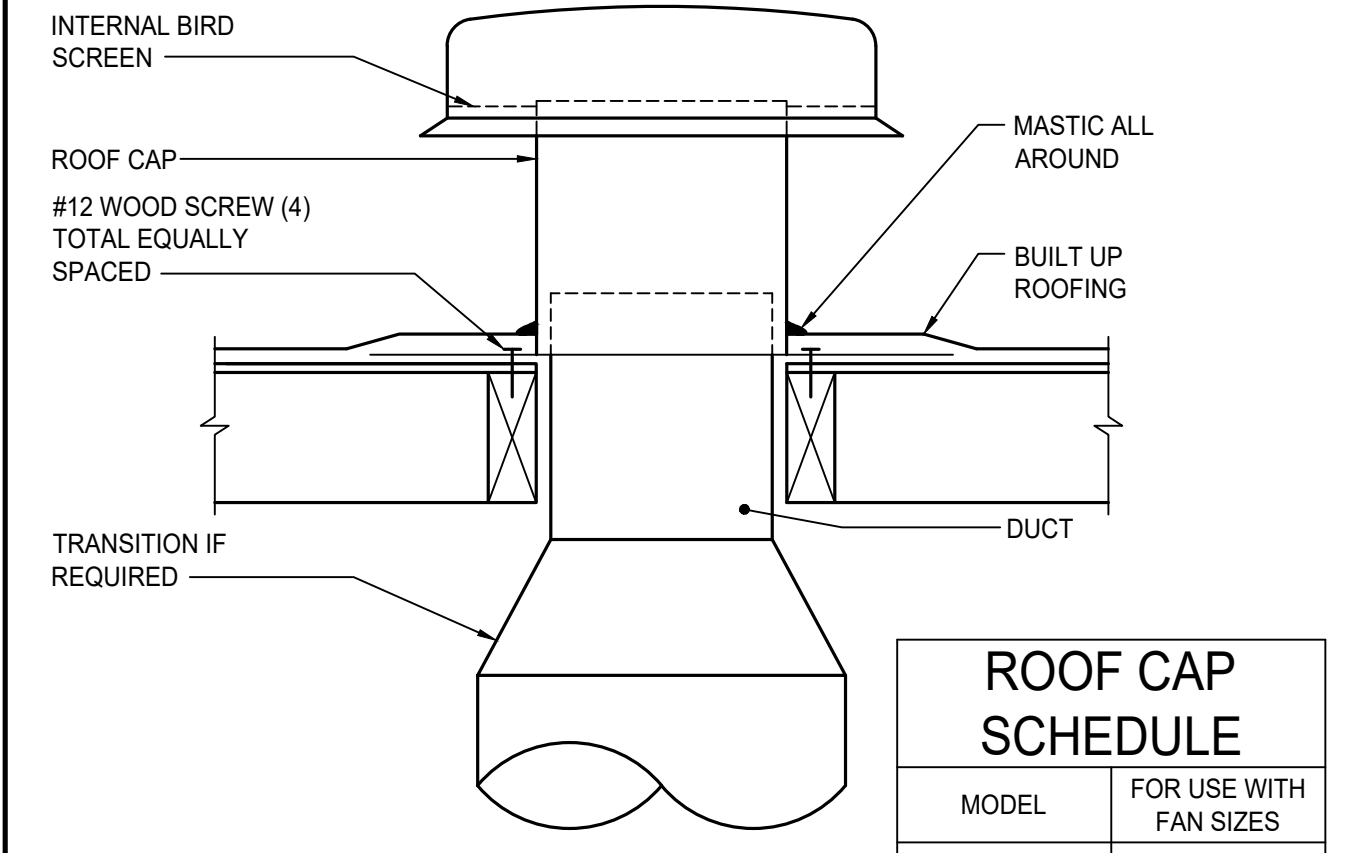
WOO JAE KIM, PE, MDA, CIP MANAGER

NOTE: If this drawing is not 36"x24" it has been revised from its original size and the scales noted on drawing/details are no longer applicable.
 © 2019 Shah Kawasaki Architects

POTTORFF 1 1/2 hour — combination fire smoke dampers installation instructions



- Figure 1a Horizontal Concrete Partition**
 - Figure 1b Vertical Concrete Partition**
 - Figure 2 Wood Stud Partition**
- A. Concrete or masonry fire partition shown in Figure 1a and 1b.** Wood or steel stud fire partition shown in Figure 2. See Wood Stud and/or Steel Stud Framing for Fire Dampers in Drywall and/or Cavity Sheathwall Partitions Supplemental Installation Instructions for further vertical installation details. The square or round opening shall be a minimum 1/2" (6) larger than the damper sleeve/frame. Damper must be installed with the leading edge of the closed blade within the partition. Damper may be installed with the blade a maximum of 15 degrees from horizontal. For mounting angles that are up to and including 1-1/2" high, the opening shall be a maximum of 1/2" (16) larger than the overall damper and sleeve assembly. When openings are larger than 1-1/2" (16), but less than 6" (152) the mounting angles must be a minimum of 16 gauge (1) and must be tall enough to overlap the opening by a minimum of 1" (25).
- B.** The connecting duct shall not be continuous, and shall terminate at the sleeve/frame using one or more of commonly used break away style connectors. Refer to Sleeve Termination Supplemental Installation Instructions for further details. Damper sleeve shall not extend more than 10" (254) beyond the rated partition on the actuator side. The opposite side extension shall be a maximum of 6" (152) unless an access door is installed in the sleeve which then permits the extension to be a maximum of 18" (457).
- C1. Dual Side Mounting Plates - Holding Plate and Guide Plate**
The holding plate (on operator side) must be flush with the partition. Seal the holding plate (see Figures 4, 4A and 5) into the mounting groove on operator side of damper and place damper in the partition. Place the guide plate (see Figure 4A) around opposite side of damper sleeve and slide forward until it touches the partition. Secure both plates with corner clips (see Figure 3) using four #10 (M6) sheet metal screws, bolts or 1/2" (12) rivets or rivets per jointer clip minimum. A minimum of three 1/4" x 2" x 20 GA. (25 x 25 x 1.6) angle irons shall be arranged symmetrically around the damper and fastened to the damper sleeve flush with the guide plate. Fasteners shall be a minimum of #10 (M6) screws, bolts, 1/2" (12) rivets or welds. The guide plate shall be attached to the partition with a minimum of four fasteners, at the corners of square plates (for square openings) or equally spaced around the circumference of round plates (for round openings).
For horizontal installation of the damper in a concrete floor, the holding plate must be installed on the top side of the floor opening.
- C2.** As an alternative to C1, for dampers 8" (203) in diameter the guide and holding plates must be attached only to the sleeve, with clip angles spaced a maximum of 8" (203) O.C. For dampers > 8" (203) and ≤ 12" (305) in diameter, the clip angles must be spaced a maximum of 6" (152) O.C. The clip angles must be staggered on either side of the partition.
- C3.** As a further option for round openings either or both plates may be replaced by 1-1/2" x 1-1/2" x 20 GA. (38 x 38 x 1) minimum angle irons. The ring shall be fastened to the damper sleeve and not the partition at 8" (203) on center maximum with a minimum of 3) fasteners using #10 (M6) sheet metal screws, bolts, masonry anchors, 1/2" (12) diameter rivets or welds.
- C4. Single Side Mounting Plate**
Single side mounting plates can be used for vertical masonry or steel stud partitions. The mounting plate must be 20 GA. (1) minimum, the clamping brackets must be 2" x 1" x 1/4 GA. (51 x 25 x 1.3) minimum, and the clamping bolt shall be a 1/2" x 20 x 3" (64 x 6) bolt minimum. Each clamping bracket must be secured to the mounting plate with a minimum of two 1/2" (12) diameter rivets or welds. The mounting plate hinges on a 1/4" (6) minimum diameter rivet. The mounting plate can be installed on either side of the partition. The mounting plate must be positioned with its leading edge flush with the wall. The mounting plate may be placed into the mounting groove or placed around the damper sleeve/frame. See Sheet 2 for mounting plate hole diameters. Tighten clamping bolt to ensure the mounting plate is secured to the damper. The mounting plate must be fastened to the partition at all four corners and for dampers 12" (305) the mounting plate must be fastened 1" (25) from the center of each side using a minimum of #10 (M6) screws, concrete anchors, 1/2" (12) rivets or welds. Fasteners must be a minimum of 1/2" (6) from the edge of the plate and must engage the steel stud by 1/2" (12) minimum.
- D.** Fire-rated damper and qualified operators are tested together by Underwriters Laboratories and are factory installed to qualify for standard damper/warranty. Damper operator/actuator must be tested prior to system startup to ensure proper operation. Before applying power to the actuator, the power must be verified.



ROOF CAP SCHEDULE	
MODEL	FOR USE WITH FAN SIZES
PR8F	100-500
PR12F	600-700
PR16F	800-900
PR20F	1000-2000

MODEL NUMBERS LISTED ARE LOREN COOK

1 ROOF CAP NTS

Model - FSD-125R
For Use in Dynamic or Static Systems.
1-1/2 Hour Rated.
Vertical or horizontal mounting.
Galvanized and Stainless Steel construction.
Information is subject to change without notice or obligation.
POTTORFF 5101 Blue Mound Road, Fort Worth, Texas 76106 www.pottorff.com

POTTORFF 1 1/2 hour • UL class 1 — combination fire smoke damper round blade

- Application**
The FSD-125R combination fire smoke damper employs a single round blade for point-of-origin control of fire and smoke in static and dynamic smoke management systems. This unique damper comes standard with mounting plates for interface to round or square openings in masonry, metal stud, or wood stud assemblies and is ideal for all round duct applications. The FSD-125R, standard construction is qualified to 2000 fpm (10.2 m/s) and 4 in. wg. (1.0 kPa) at 250° F (121°C). Optional construction is qualified to 3000 fpm (15.3 m/s) and 4 in. wg. (1.0 kPa) at 350° F (177°C) and may be installed in vertical walls or partitions, or horizontally in floors or assemblies with fire resistance ratings up to 2 hours.
- Ratings**
UL 555 Fire Resistance Rating: 1 1/2 hour (vertical and horizontal)
UL 555S Leakage Class: 1 [8 cfm/ft. @ 1 in. wg.] [0.04 m³/s/m² @ 1.0 kPa]
Maximum Dynamic Closure Velocity: 3,000 fpm (15.3 m/s)
Maximum UL555S Rated Pressure: 4 in. wg. (1.0 kPa)
Maximum Temperature: 350° F (177°C)
- Listings**
UL 555 and 555S listing: R11767
CSFM listing: 3225-0368-112 and 3230-0368-113
New York City MEA listing: 295-98-E
Meets NFPA Standards: 90A, 92A, 92B and 101
Meets Building Code Standards: IBC, NBC, NFPA, SBC and UBC

- Standard Construction**
Sleeve/Frame: Integral 16" x 20 GA. (#16 x 1.0) galvanized steel with reinforcing beads.
Blade: 14 gauge (2.0) equivalent galvanized steel — round.
Axles: 1/2" (12) diameter plated steel, D-58" (203), 1/4" (19), D-58" (203).
Linkage: In the air-stream.
Bearings: Bronze oilite, sleeve-type.
Seal: Silicone blade edge seal.
Actuator: 120 VAC, power-open, spring-close, external mount.
Fire Closure Device: IS-10 (electric actuators), PTV (pneumatic actuators).
Fire Closure Temperature: 185° F (75°C).
Minimum Size: 6" Ø (152 Ø)
Maximum Size: 24" Ø (610 Ø)
- Options**
 Alternate actuator:
 24 VAC 230 VAC Pneumatic
 D-50-30 — Two temperature fire closure device. (Includes actuator with auxiliary switches)
 Alternate sleeve/frame length:
 20" (508) 24" (610)
 Single-sided mounting plate.
 Duct access door factory mounted to sleeve/frame.
 Alternate fire closure temperature:
 212° F (100°C) 250° F (121°C)
 350° F (177°C)
 Remote control stations:
 RCP-1 (single) RCP-1K (single, key controlled)
 RCP-1M (single, momentary switch)
 Type - 304 stainless steel construction.
- Model FSD-125R**
"Damper dimensions furnished approximately 1/8" (3) rounded. Outside diameter including reinforcing beads is approximately 2" (51) and at the center line diameter including side beads is approximately 2" (51)."
- Information is subject to change without notice or obligation. **POTTORFF** 5101 Blue Mound Road, Fort Worth, Texas 76106 www.pottorff.com

POTTORFF 1 1/2 hour — combination fire smoke dampers installation instructions

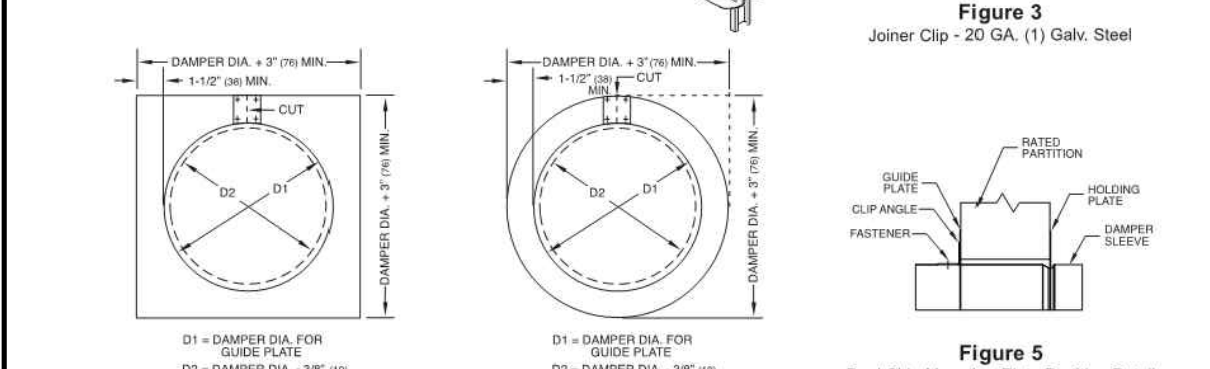
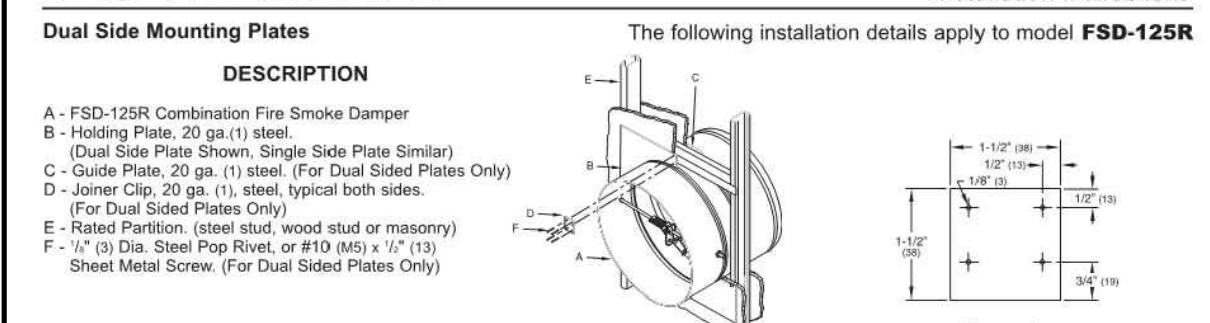


Figure 3 Joiner Clip - 20 GA. (1) Galv. Steel
Figure 4 (Square Openings) Guide Plate & Holding Plate Detail
Figure 4A (Round Openings) Guide Plate & Holding Plate Detail
Figure 5 Dual Side Mounting Plate Partition Detail

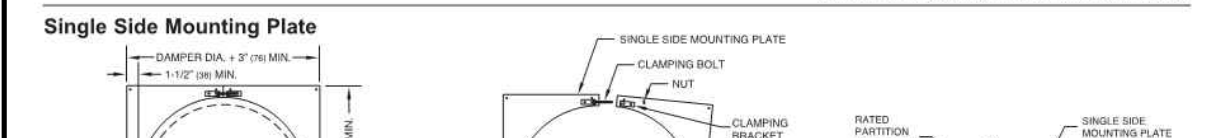
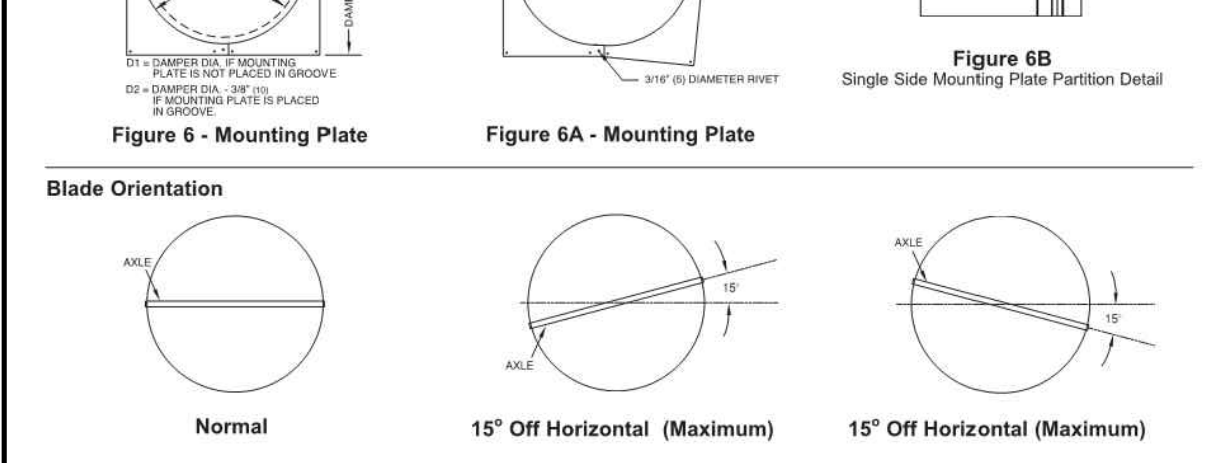


Figure 6 - Mounting Plate
Figure 6A - Mounting Plate
Figure 6B Single Side Mounting Plate Partition Detail



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2 THRU THE WALL COMBINATION FIRE/SMOKE DAMPER NTS

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2	ISSUED FOR PERMIT		10/08/2019
3	RE-ISSUE FOR PERMIT		10/24/2019



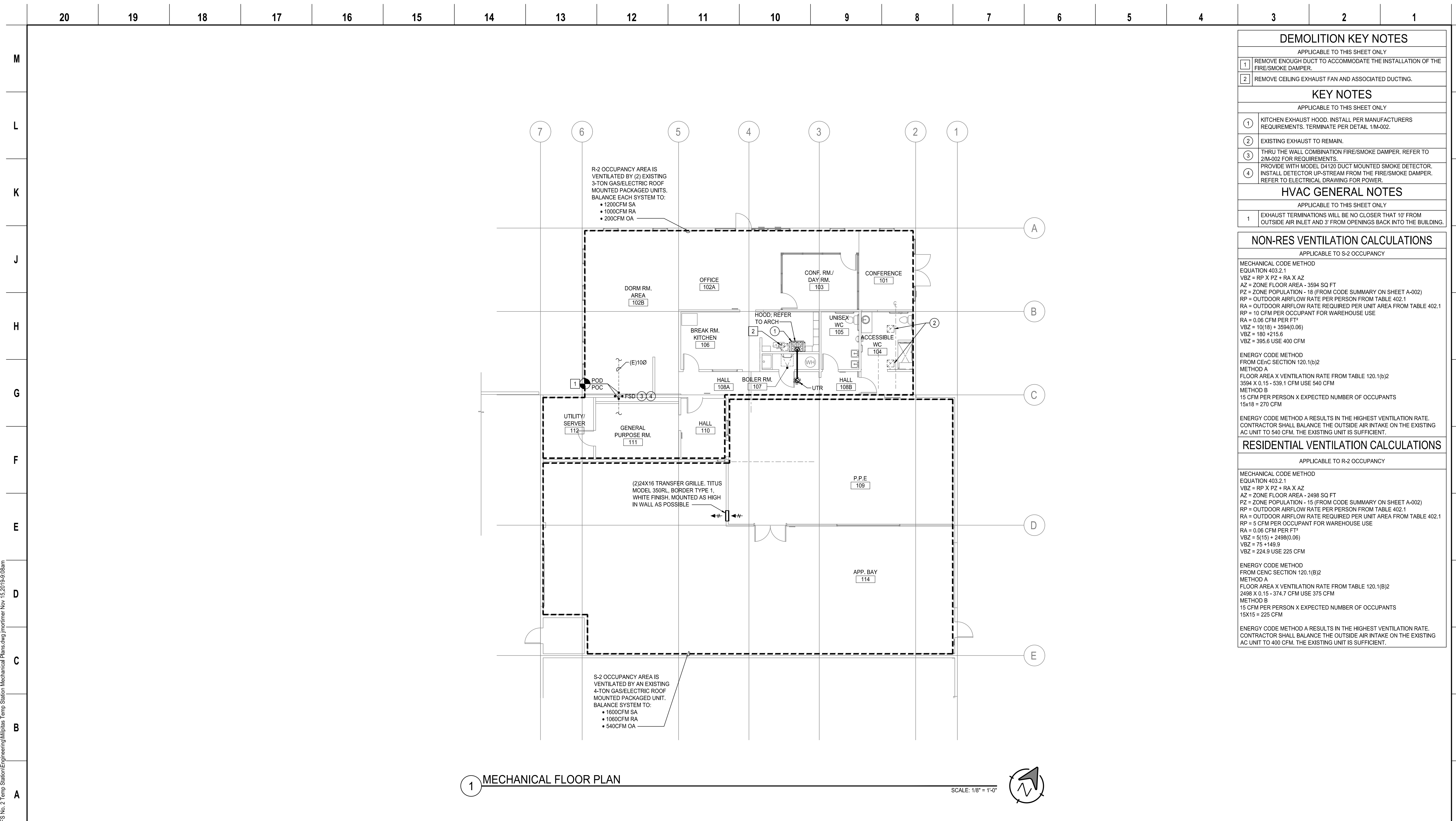
CITY OF MILPITAS FIRE STATION NO.2 TEMP. STATION
1126 YOSEMITE DRIVE, MILPITAS, CA

Drawing Title: **MECHANICAL DETAILS**

RECOMMENDED FOR BIDDING BY: _____ DATE: _____
MICHAEL SILVEIRA, P.E., CIP MANAGER

City Project Number: 3447
REC. DWG NO.: _____
SCALE: AS NOTED
Drawing No.: **M-002**
Sheet No. of _____

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DEMOLITION KEY NOTES
 APPLICABLE TO THIS SHEET ONLY

1	REMOVE ENOUGH DUCT TO ACCOMMODATE THE INSTALLATION OF THE FIRE/SMOKE DAMPER.
2	REMOVE CEILING EXHAUST FAN AND ASSOCIATED DUCTING.

KEY NOTES
 APPLICABLE TO THIS SHEET ONLY

1	KITCHEN EXHAUST HOOD, INSTALL PER MANUFACTURERS REQUIREMENTS. TERMINATE PER DETAIL 1M-002.
2	EXISTING EXHAUST TO REMAIN.
3	THRU THE WALL COMBINATION FIRE/SMOKE DAMPER, REFER TO 2M-002 FOR REQUIREMENTS.
4	PROVIDE WITH MODEL D4120 DUCT MOUNTED SMOKE DETECTOR. INSTALL DETECTOR UP-STREAM FROM THE FIRE/SMOKE DAMPER. REFER TO ELECTRICAL DRAWING FOR POWER.

HVAC GENERAL NOTES
 APPLICABLE TO THIS SHEET ONLY

1	EXHAUST TERMINATIONS WILL BE NO CLOSER THAN 10' FROM OUTSIDE AIR INLET AND 3' FROM OPENINGS BACK INTO THE BUILDING.
---	---

NON-RES VENTILATION CALCULATIONS
 APPLICABLE TO S-2 OCCUPANCY

MECHANICAL CODE METHOD
 EQUATION 403.2.1
 $VBZ = RP \times PZ + RA \times AZ$
 AZ = ZONE FLOOR AREA - 3594 SQ FT
 PZ = ZONE POPULATION - 18 (FROM CODE SUMMARY ON SHEET A-002)
 RP = OUTDOOR AIRFLOW RATE PER PERSON FROM TABLE 402.1
 RA = OUTDOOR AIRFLOW RATE REQUIRED PER UNIT AREA FROM TABLE 402.1
 RP = 10 CFM PER OCCUPANT FOR WAREHOUSE USE
 RA = 0.06 CFM PER FT²
 $VBZ = 10(18) + 3594(0.06)$
 $VBZ = 180 + 215.6$
 $VBZ = 395.6$ USE 400 CFM

ENERGY CODE METHOD
 FROM CENC SECTION 120.1(b)2
 METHOD A
 FLOOR AREA X VENTILATION RATE FROM TABLE 120.1(b)2
 $3594 \times 0.15 = 539.1$ CFM USE 540 CFM
 METHOD B
 15 CFM PER PERSON X EXPECTED NUMBER OF OCCUPANTS
 $15 \times 18 = 270$ CFM

ENERGY CODE METHOD A RESULTS IN THE HIGHEST VENTILATION RATE. CONTRACTOR SHALL BALANCE THE OUTSIDE AIR INTAKE ON THE EXISTING AC UNIT TO 540 CFM. THE EXISTING UNIT IS SUFFICIENT.

RESIDENTIAL VENTILATION CALCULATIONS
 APPLICABLE TO R-2 OCCUPANCY

MECHANICAL CODE METHOD
 EQUATION 403.2.1
 $VBZ = RP \times PZ + RA \times AZ$
 AZ = ZONE FLOOR AREA - 2498 SQ FT
 PZ = ZONE POPULATION - 15 (FROM CODE SUMMARY ON SHEET A-002)
 RP = OUTDOOR AIRFLOW RATE PER PERSON FROM TABLE 402.1
 RA = OUTDOOR AIRFLOW RATE REQUIRED PER UNIT AREA FROM TABLE 402.1
 RP = 5 CFM PER OCCUPANT FOR WAREHOUSE USE
 RA = 0.06 CFM PER FT²
 $VBZ = 5(15) + 2498(0.06)$
 $VBZ = 75 + 149.9$
 $VBZ = 224.9$ USE 225 CFM

ENERGY CODE METHOD
 FROM CENC SECTION 120.1(B)2
 METHOD A
 FLOOR AREA X VENTILATION RATE FROM TABLE 120.1(B)2
 $2498 \times 0.15 = 374.7$ CFM USE 375 CFM
 METHOD B
 15 CFM PER PERSON X EXPECTED NUMBER OF OCCUPANTS
 $15 \times 15 = 225$ CFM

ENERGY CODE METHOD A RESULTS IN THE HIGHEST VENTILATION RATE. CONTRACTOR SHALL BALANCE THE OUTSIDE AIR INTAKE ON THE EXISTING AC UNIT TO 400 CFM. THE EXISTING UNIT IS SUFFICIENT.

1 MECHANICAL FLOOR PLAN

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

Architect of Record SHAH KAWASAKI ARCHITECTS 570 10th Street, Suite 201 Oakland, CA 94607 Consultant 	DESIGNER STAMP: 	RECORD DRAWINGS: DESIGNER: _____ DATE: _____ PUBLIC WORKS INSPECTOR: _____ DATE: _____ UTILITY/FACILITY DEPT. HEAD: _____ DATE: _____ PROJECT ENGINEER: _____ DATE: _____ PUBLIC IMPROVEMENTS INITIALLY ACCEPTED BY THE CITY COUNCIL ON: _____ RES. NO. _____		DRAWN BY: _____ DATE: _____ CHECKED BY: _____ DATE: _____ DESIGNED BY: _____ DATE: _____		REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>ISSUE DESCRIPTION</th> <th>ENGR. APR.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>100% DESIGN DEVELOPMENT</td> <td></td> <td>09/27/2019</td> </tr> <tr> <td>2</td> <td>ISSUED FOR PERMIT</td> <td></td> <td>10/08/2019</td> </tr> <tr> <td>3</td> <td>RE-ISSUE FOR PERMIT</td> <td></td> <td>10/24/2019</td> </tr> <tr> <td>4</td> <td>RESPONSE TO CITY PERMIT</td> <td></td> <td>11/11/2019</td> </tr> </tbody> </table>		NO.	ISSUE DESCRIPTION	ENGR. APR.	DATE	1	100% DESIGN DEVELOPMENT		09/27/2019	2	ISSUED FOR PERMIT		10/08/2019	3	RE-ISSUE FOR PERMIT		10/24/2019	4	RESPONSE TO CITY PERMIT		11/11/2019	City Project Number: 3447 REC. DWG NO. _____ SCALE: AS NOTED Drawing No. M-121 Sheet No. _____ of _____	
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City of Milpitas Fire Station No. 2 Temp. Station 1126 YOSEMITE DRIVE, MILPITAS, CA MECHANICAL FLOOR PLAN NOTE: If this drawing is not 36"x24" it has been revised from its original size and the scales noted on drawing/details are no longer applicable. © 2019 Shah Kawasaki Architects		RECOMMENDED FOR BIDDING BY: _____ DATE: _____ WOO JAE KIM, PE, MDA, CIP MANAGER																											

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GENERAL NOTES
1. CODE COMPLIANCE: ALL WORK SHALL CONFORM TO AND BE PERFORMED IN ACCORDANCE WITH CODES, STANDARDS, AND ORDINANCES AS SET FORTH BY THE AUTHORITIES HAVING JURISDICTION AND THEIR LATEST ADOPTED EDITIONS (IN EFFECT AT TIME OF BUILDING PERMIT APPLICATION) OF THE FOLLOWING PUBLICATIONS:
A. CALIFORNIA CODE OF REGULATIONS TITLE 24; INCLUDES 2016 CALIFORNIA ELECTRICAL CODE, 2016 CALIFORNIA FIRE CODE, 2016 CALIFORNIA BUILDING CODE, ETC. WITH LOCAL AMENDMENTS AS APPLICABLE.
B. AMERICANS WITH DISABILITIES ACT (ADA).
2. SAFETY: THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL EQUIPMENT IN A SAFE AND RESPONSIBLE MANNER. KEEP DEAD FRONT EQUIPMENT IN PLACE WHILE EQUIPMENT IS ENERGIZED. CONDUCT ALL CONSTRUCTION OPERATIONS IN A SAFE MANNER FOR EMPLOYEES AS WELL AS OTHER WORKPERSONS OR ANYONE VISITING THE JOB SITE. PROVIDE BARRIERS, FLAGS, TAPE, ETC. AS REQUIRED FOR SAFETY. THE CONTRACTOR SHALL HOLD ALL PARTIES HARMLESS OF NEGLIGENT SAFETY PRACTICES, WHICH MAY CAUSE INJURY TO OTHERS ON OR NEAR THE JOB SITE.
3. FIRE RATED ASSEMBLIES SHALL MAINTAIN RATINGS AS SPECIFIED IN THE CALIFORNIA BUILDING CODE CHAPTER 7. CONTRACTOR SHALL PROVIDE AND INSTALL PHYSICAL ENCLOSURE AROUND FIXTURES, PANELS, ETC. AS REQUIRED. ALL ASSEMBLIES TO BE PENETRATED SHALL BE INSTALLED WITH APPLICABLE THROUGH-PENETRATION FIRESTOP SYSTEM AS DETERMINED BY UL CLASSIFICATION. BEFORE CONSTRUCTION, VERIFY AND COMPLY WITH REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.
4. MOUNTING HEIGHTS SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
+15" AFF: RECEPTACLES, TELEPHONE, TV & DATA OUTLETS. (MEASURED BOTTOM OF OUTLET BOX)
+46" AFF: OUTLET ABOVE COUNTER (MEASURED TOP OF OUTLET BOX)
+48" AFF: LIGHT SWITCHES. (MEASURED TOP OF OUTLET BOX)
+48" AFF: FIRE ALARM MANUAL PULL STATIONS, T-STATS. (MEASURED TOP OF OUTLET BOX)
THE LOWER OF +80" AFF TO BOTTOM OF LENS, OR 6" BELOW CEILING: FIRE ALARM VISUALS.
ELECTRICAL SWITCHES: CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHT AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE OUTLET BOX NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM. [CBC 11B-308.1.1]
ELECTRICAL RECEPTACLE OUTLETS: ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM [CBC 11B-308.1.2]
BEFORE ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT ELECTRICAL CONNECTIONS, STUB-UPS, RECEPTACLES, OUTLETS, ETC. WITH ARCHITECT OR OWNER. PLACE DEVICES LOCATED ABOVE COUNTERS, SHELVING, ETC. AND IN BATHROOMS SO AS NOT TO CONFLICT WITH EDGES OF WAINSCOTING, COUNTER SPLASH, SHELVING, ETC. ARCHITECTURAL SHEETS SHALL GOVERN.
5. LABEL PANELS, CABINETS, BACKBOARDS, MAIN DEVICES, SAFETY SWITCHES, CONTACTORS AND OTHER SPECIFICALLY DESIGNATED EQUIPMENT SHOWN ON PLANS. USE ENGRAVED LAMINATED PLASTIC NAMEPLATES ATTACHED BY SCREWS OR RIVETS. FOR FEEDERS, NEATLY AND INDELIBLY LABEL CONDUIT DESTINATIONS ON BOTH VISIBLE ENDS OF CONDUIT RUNS WHERE CONDUITS TERMINATE AT DESIGNATED ENCLOSURES, STRUCTURES OR EQUIPMENT (INCLUDING PULL AND SPLICE BOXES).

EXISTING BUILDING NOTES

1. ASBESTOS: IF DURING THE COURSE OF WORK THE CONTRACTOR OBSERVES THE EXISTENCE OF ASBESTOS, OR ASBESTOS-BEARING MATERIALS, THE CONTRACTOR SHALL IMMEDIATELY TERMINATE FURTHER WORK ON THE PROJECT AND NOTIFY THE OWNER OF THE CONDITION. THE OWNER WILL, AFTER CONSULTATION WITH THE OWNER'S REPRESENTATIVE, DETERMINE A FURTHER COURSE OF ACTION.
2. ANY DEMOLITION WORK SHOWN WAS PREPARED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER DOES NOT REPRESENT THAT ALL ITEMS WHICH MAY REQUIRE DEMOLITION HAVE BEEN SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE SITE AND THE CONTRACT DOCUMENTS AND TO PERFORM ALL DEMOLITION AND RECONSTRUCTION WHICH MAY BE REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
3. EXISTING CONDITIONS: INFORMATION SHOWN FOR EXISTING CONDITIONS WAS PRIMARILY GAINED FROM "AS BUILT" DRAWINGS AND/OR LIMITED FIELD INVESTIGATION. BEFORE BID, VISIT SITE TO VERIFY EXISTING CONDITIONS AND MAKE ALLOWANCE FOR VARIATIONS FROM THAT SHOWN.
4. EXISTING CONDUCTORS: INTERCEPT, EXTEND, REROUTE, RE-PULL CONDUCTORS. SPLICE AND OTHERWISE MODIFY EXISTING CONDUCTORS OF ALL SYSTEMS AS REQUIRED TO MAINTAIN AND/OR ESTABLISH PROPER FUNCTION AND SATISFY DESIGN INTENT. REMOVE ABANDONED CONDUCTORS.
5. EXISTING COMMUNICATIONS, DATA AND CATV AND OTHER LOW VOLTAGE TYPE SYSTEM OUTLET LOCATIONS SHOWN ON THE PLAN TO BE RELOCATED SHALL BE PERFORMED BY THE ELECTRICAL CONTRACTOR. MODIFY EXISTING SYSTEM AS REQUIRED FOR FULL FUNCTION (SAME AS EXISTING) IN NEW LOCATION.
6. WHERE EXISTING BUILDING CONSTRUCTION, MECHANICAL UNITS AND OTHER EQUIPMENT IS SHOWN TO BE REMOVED, DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL INSTALLATION.
7. CLOSELY COORDINATE OUTAGE AND FACILITY DISRUPTION TIME WITH ARCHITECT AND OWNER. MINIMUM 72-HOUR NOTICE IS REQUIRED BEFORE ANY CIRCUIT SHUTDOWN OR DISRUPTION OF FACILITY PERSONNEL FUNCTIONING.

SUBMITTALS AND SHOP DRAWINGS

1. BEFORE CONSTRUCTION, SUBMIT IN ACCORDANCE WITH THE GENERAL CONDITIONS OF THIS SPECIFICATION: A COMPLETE LIST OF ALL MATERIALS PROPOSED TO BE FURNISHED AND INSTALLED.
2. MANUFACTURERS' SPECIFICATIONS, CATALOG CUTS AND SHOP DRAWINGS AS REQUIRED TO DEMONSTRATE COMPLIANCE WITH THE SPECIFICATIONS. IDENTIFY SPECIFIC INTENDED USE FOR EACH COMPONENT WHERE SUBMITTAL MAY BE AMBIGUOUS. SUBMIT ENTIRE BOUND SUBMITTAL AT ONE TIME; PARTIAL SUBMITTALS WILL NOT BE ACCEPTED.
3. THE INTENT OF THESE SPECIFICATIONS IS TO ESTABLISH A STANDARD OF QUALITY FOR MATERIALS AND EQUIPMENT. THEREFORE, SOME ITEMS ARE IDENTIFIED BY MANUFACTURER OR TRADE NAME DESIGNATION. SUBSTITUTIONS SHALL BE SUBJECT TO THE ARCHITECT'S APPROVAL. SAMPLES OF THE PROPOSED AND SUBSTITUTE MATERIALS MAY BE REQUIRED FOR INSPECTION PRIOR TO APPROVAL. COSTS, IF ANY, FOR EVALUATION OF SUBSTITUTIONS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE DECISION OF THE ARCHITECT SHALL BE FINAL. WHERE THE SUBSTITUTION WILL AFFECT OTHER TRADES, COORDINATE ALL CHANGES WITH THOSE TRADES CONCERNED AND PAY ANY ADDITIONAL COSTS INCURRED BY THEM AS A RESULT OF THIS SUBSTITUTION. APPROVAL OF SUBSTITUTIONS SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING AN OPERATIONAL SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.

CONDUIT SYSTEMS NOTES
CONDUIT SYSTEMS USED ON THIS PROJECT SHALL BE AS FOLLOWS
1. PVC SCHEDULE 40 OR 80 - underground/below slab with GRS elbows and risers (tape wrapped).
2. ELECTRICAL METALLIC CONDUIT (EMT) - above grade/slab in building construction and where exposed above 8'-0" aff.
3. GALVANIZED RIGID STEEL (GRS) - where exposed below 8'-0" aff. and/or where subject to physical damage.
4. FLEXIBLE STEEL CONDUIT - above ceilings and/or concealed in building construction (seal tight flex required in exterior locations).
5. MC CABLE ALLOWED IN OCCUPANCY R2 ZONES ONLY.
CONDUITS SHALL BE MINIMUM 1/2" UNLESS OTHERWISE NOTED, 3/4" FOR ALL HOME RUN CONDUITS AND WHERE ROUTED BELOW SLAB OR UNDERGROUND. CONDUIT SIZES, WHERE NOT NOTED ON THE DRAWINGS, SHALL BE SIZED FOR MAXIMUM 40% FILL PER CEC 310-6.
ADDITIONAL CONDUIT REQUIREMENTS.
- PROVIDE OUTLETS TO MATCH EXISTING.

SMOKE ALARM SYSTEM NOTES

1. SINGLE OR MULTIPLE SMOKE ALARMS SHALL BE INSTALLED AND MAINTAINED IN GROUPS R-2, REGARDLESS OF OCCUPANT LOAD AT ALL OF THE FOLLOWING LOCATIONS PER CBC 2016 R314.
A. IN EACH SLEEPING ROOM
B. OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS.
C. SMOKE ALARMS SHALL BE INSTALLED NO LESS THAN 3 FEET HORIZONTALLY FROM THE DOOR OR OPENING OF A BATHROOM THAT CONTAINS A BATHTUB OR SHOWER UNLESS THIS WOULD PREVENT PLACEMENT OF A SMOKE ALARM REQUIRED BY SECTION R14.3
D. SMOKE ALARMS SHALL BE INSTALLED ACCORDING TO CBC 907.2.11.8 AND CRC R314.3.3.
2. THE SMOKE ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT. THE ALARM SHALL BE CLEARLY AUDIBLE IN ALL BEDROOMS OVER BACKGROUND NOISE LEVELS WITH ALL INTERVENING DOORS CLOSED (CBC 907.2.11.5)
3. SMOKE ALARMS SHALL BE TESTED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. SMOKE ALARMS THAT NO LONGER FUNCTION SHALL BE REPLACED.
4. CARBON MONOXIDE ALARMS SHALL BE INSTALLED IN NEW DWELLING UNITS WHICH HAVE FUEL-BURNING APPLIANCES INSTALLED (CBC 915.1.2)
5. CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHERE SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED WITH A BATTERY BACKUP. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN A REQUIRED FOR OVERCURRENT PROTECTION (CBC 915.4.1)
6. REQUIRED CARBON MONOXIDE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS (CBC 915.2)
A. OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS.

GENERATOR SYSTEM NOTES

1. A PERMANENT PLAQUE SHALL BE PLACED AT THE NORMAL SERVICE EQUIPMENT DENOTING THE TYPE & LOCATION OF THE ON-SITE STANDBY POWER GENERATOR (CEC 701.7(A) AND CEC 702.7(A)). THE PLAQUE SHALL IDENTIFY THE CONNECTION OF THE GROUNDING ELECTRODE CONDUCTOR WHEN THAT CONNECTION IS AT A LOCATION REMOTE FROM THE GENERATOR.
2. WHERE THE GROUNDING CIRCUIT CONDUCTOR CONNECTED TO THE EMERGENCY SOURCE IS CONNECTED TO A GROUNDING ELECTRODE CONDUCTOR AT A LOCATION REMOTE FROM THE EMERGENCY SOURCE, THERE SHALL BE A SIGN AT THE GROUNDING LOCATION THAT SHALL IDENTIFY ALL EMERGENCY AND NORMAL SOURCES CONNECTED AT THAT LOCATION, PER CEC 701-7(B), 702-7(B).
3. WIRING FROM AN EMERGENCY SOURCE OR EMERGENCY SOURCE DISTRIBUTION OVERCURRENT PROTECTION TO EMERGENCY LOADS SHALL BE KEPT ENTIRELY INDEPENDENT OF ALL OTHER WIRING AND EQUIPMENT AND SHALL BE IDENTIFIED BY PERMANENT MARKING, EXCEPT AS NOTED IN (1) THROUGH (5), PER NEC 700-9(B):
a. THE NORMAL POWER SOURCE WIRING SHALL BE PERMITTED TO BE LOCATED IN TRANSFER EQUIPMENT ENCLOSURES.
b. IN EXIT OR EMERGENCY LIGHTING FIXTURES, WIRING SUPPLIED FROM TWO SOURCES SHALL BE PERMITTED.
c. IN A COMMON JUNCTION BOX, ATTACHED TO EXIT OR EMERGENCY LIGHTING FIXTURES, WIRING SUPPLIED FROM TWO SOURCES SHALL BE PERMITTED.
d. THE WIRING WITHIN A COMMON JUNCTION BOX ATTACHED TO UNIT EQUIPMENT, CONTAINING ONLY THE BRANCH CIRCUIT SUPPLYING THE UNIT EQUIPMENT AND THE EMERGENCY CIRCUIT SUPPLIED BY THE UNIT EQUIPMENT SHALL BE PERMITTED.
e. WIRING OF TWO OR MORE EMERGENCY CIRCUITS SUPPLIED FROM THE SAME SOURCE SHALL BE PERMITTED IN THE SAME RACEWAY, CABLE, BOX, OR CABINET.
f. THE FOLLOWING EQUIPMENT SHALL BE UL LISTED AS INDICATED:
STATIONARY GENERATORS 600V OR LESS IN NON-HAZARDOUS LOCATIONS - (UL2200)
STATIONARY GENERATORS 600V OR LESS IN HAZARDOUS LOCATIONS - (UL674)
STATIONARY GENERATORS 600V OR LESS IN MARINE ENVIRONMENTS - (UL1112)
NON EMERGENCY UNINTERRUPTIBLE POWER SYSTEMS (UPS) - (UL1778)
EMERGENCY RATED UNINTERRUPTIBLE POWER SYSTEMS (UPS) - (UL924)
EMERGENCY RATED LOW LEVEL PATH MARKING AND LIGHTING SYSTEMS - (UL1994)

LEGEND AND ABBREVIATIONS

LEGEND
NOTE: INTERPRET IN CONTEXT
LIGHT FIXTURES
WALL SURFACEMOUNT
RECESSED DOWNLIGHT
RECESSED WALLWASH
RECESSED FLUOR.
SURFACE FLUOR.
FLUOR. STRIP UON
TRACK LIGHT
DIRECTIONAL FLOOD
EMERGENCY FIXTURE
POLE LIGHT
POLE LIGHT- DECORATIVE
TANDEM-WIRED LAMPS
BOLLARD
EXIT LIGHT- WALL
EXIT LIGHT- CEILING
LETTER ADJACENT INDICATES FIXTURE TYPE
CONDUIT/WIRE
NEW
UNDERGROUND
NEW POWER HOMERUN (3 HOTS & NEUT SHOWN)
ISOLATED GROUND
EXISTING TO REMAIN
(E) POWER HOMERUN
CONDUIT STUB (W/MARKER)
VERTICAL CONDUIT RUN
CONDUIT SEAL
FLEXIBLE CONNECTION
LOW VOLTAGE
SURFACEMOUNT RACEWAY
ABBREVIATIONS
A AMPERE
AF AMP FUSE RATING
AFF ABOVE FINISH FLOOR
AFG ABOVE FINISH GRADE
AIC AMPERES INTERRUPT CAPACITY
AS AMP SWITCH RATING
BFG BELOW FINISH GRADE
CB CIRCUIT BREAKER
CEC CA. ELECTRICAL CODE
CKT CIRCUIT
C CONDUIT
C.O. CONDUIT ONLY
(E) EXISTING
EC ELECTRICAL CONTRACTOR
EF# EXHAUST FAN
(EXN) (E) IN (N) LOCATION
(EXR) (E) TO BE (R)
(F) FUTURE
FA FIRE ALARM
FACP FIRE ALARM CONTROL PANEL
G GROUNDING CONDUCTOR
GC GENERAL CONTRACTOR
GFI GROUND FAULT CKT INTERRUPTER
GND GROUND
GRS GALVANIZED RIGID STEEL
GWS GANGED WITH SWITCH
IG ISOLATED GROUND
LGT LIGHTING
MC MECHANICAL CONTRACTOR
MCB MAIN CIRCUIT BREAKER
MLO MAIN LUGS ONLY
MSB MAIN SWITCHBOARD
MTTB MAIN TELEPHONE TERMINAL BOARD
(N) NEW
NIC NOT IN CONTRACT
NL NIGHT LIGHT
P POLE
PV PHOTOVOLTAIC
(R) RELOCATED(D)
F FLOW SWITCH
T TAMPER SWITCH
M MANUAL PULL STATION
SD SMOKE DETECTOR
UD UNDERGROUND
UDN UNLESS OTHERWISE NOTED
V VOLT
VA VOLT AMPERES
W WATT, WIRE
WP WEATHERPROOF (NEMA 3R)
END OF LINE RESISTOR
SWITCHES
SPST
DPST
3-WAY
4-WAY
DIMMER
TIMER SWITCH
W/HERMAL OVERLOAD
W/PILOT LIGHT
KEY OPERATED
DUAL LEVEL SWITCHING
SWITCHLEG DESIGNATION
OCCUPANCY SENSOR
FIRE ALARM
FIRE ALARM CONTROL PANEL
REMOTE POWER SUPPLY
HORN- AUDIBLE DEVICE
VISUAL-VISUAL DEVICE
AUDIBLE/VISUAL
SPEAKER/VISUAL
FLOW SWITCH
TAMPER SWITCH
MANUAL PULL STATION
SMOKE DETECTOR
DUCT SMOKE DETECTOR
SMOKE/CO DETECTOR
HEAT DETECTOR
BELL
END OF LINE RESISTOR
POWER/COMM.
SINGLE RECEPT.
DUPLX RECEPT.
GROUND FAULT CIRCUIT INTERRUPT
MOUNTED ABOVE COUNTER
DUPLX- HALF SWITCHED
DOUBLE DUPLX
SPECIAL CONFIGURATION
DUPLX- FLOOR OUTLET
JUNCTION BOX
TELEPHONE OUTLET
DATA OUTLET
PHONE/DATA COMBO OUTLET
MOUNTED ABOVE COUNTER
SAFETY DISCONNECT
TELEVISION OUTLET
INTERMEDIATE DISTRIBUTION FRAME
MAIN DISTRIBUTION FRAME
ACCESS POINT
MISCELLANEOUS
MOTOR
THERMOSTAT
CIRCUIT BREAKER
FUSIBLE SWITCH
PHASE
GROUND

SHEET INDEX

Table with 2 columns: SHEET NO. and SHEET DESCRIPTION. Rows include E-001 ELECTRICAL GENERAL NOTES, LEGEND, AND ABBREVIATIONS; E-002 ELECTRICAL DETAILS; E-003 PANEL SCHEDULE; E-101 ELECTRICAL DEMOLITION PLANS; E-102 ELECTRICAL PLAN AND SINGLE LINE DIAGRAM.

Architect of Record: SHAH KAWASAKI ARCHITECTS. Designer Stamp: THOMA ENGINEERING INC. REVISIONS table with columns NO., ISSUE DESCRIPTION, ENGR. APR., DATE. Drawing Title: CITY OF MILPITAS FIRE STATION NO. 2 TEMP. STATION. Drawing No. E-001. Scale: AS NOTED.

HILTI Product Information

Firestop Sleeve Kit (CFS-SL SK)

Product description
 The Hilti Firestop Sleeve Kit offers an economical and intuitive solution for properly firestopping new cable applications requiring a sleeve.

Product features
 ■ Fast, easy, intuitive installation for new cable runs
 ■ Easy to install correctly
 ■ Simple to inspect
 ■ Re-perforable for future cable capacity
 ■ Pre-cured, poly-formed firestop material does not expire, eliminating short-life concerns
 ■ Protects most typical firestop penetration applications
 ■ 4" diameter device is compatible with the Hilti GangGates CFS-SL GP
 ■ Buy American compliant
 ■ Meets LEED™ requirements for indoor environmental quality credit 4.1
 ■ Low VOC content and no CFCs or HCFCs
 ■ New cable applications with a sleeve

Areas of application
 ■ Single and bundled cables in gypsum and CMU/Concrete
 ■ New cable applications with a sleeve

Installation instructions for Firestop Sleeve Kit
 See Hilti Literature or visit party listings for complete application and installation details.

Technical Data

	2"	4"
OD (sleeve only)	2.5"	4.5"
OD (flange)	4.7"	6.7"
ID (sleeve only)	2.3"	4.3"
Total length	10.5 in.	
Expansion ratio (unpressurized)	Approx. 1:3	
Temperature resistance	5° F to 140° F (15° C to 60° C)	
Intumescent activation	Approx. 300° F (200° C)	
Surface burning characteristics (ASTM E 84-10B)	ASTM E 84 CANULC 515 UL 1479 ASTM E 84 (CFS-PL only)	

Hilti. Outperform. Outlast.
 HIL, Inc. (USA) 1-800-879-8000 | www.us.hilti.com | en español 1-800-879-8000 | Hilti (Canada) Corp. 1-800-363-4458 | www.hilti.ca

HILTI Firestop Retrofit Sleeve Kit CFS-SL RK

Technical Data

	2"	4"
OD (sleeve only)	2.5"	4.5"
OD (flange)	4.7"	6.7"
ID (sleeve only)	2.3"	4.3"
Total length	10.5 in.	
Expansion ratio (unpressurized)	Approx. 1:3	
Temperature resistance	5° F to 140° F (15° C to 60° C)	
Intumescent activation	Approx. 300° F (200° C)	
Surface burning characteristics (ASTM E 84-10B)	ASTM E 84 CANULC 515 UL 1479 ASTM E 84 (CFS-PL only)	

System No. C-AJ-1575

Classified by Underwriters Laboratories, Inc. to UL 1479 and CANULC 515.

ANSI/UL1479 (ASTM E814)	CANULC 515
F Ratings — 2 and 3 Hr (See Item 4B)	F Ratings — 2 and 3 Hr (See Item 4B)
T Rating — 0 Hr	FT Rating — 0 Hr
W Rating — Class 1 (See Item 4)	FH Ratings — 2 and 3 Hr (See Item 4B)
	FTN Rating — 0 Hr

SECTION A-A

1. Floor or Wall Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow core Precast Concrete Units*. Max diam of opening is 30-7/8 in. (784 mm) when concrete floor or wall is used and max 7 in. (178 mm) when precast concrete units are used.

2. Steel Sleeve — See Table in Item 4B when sleeve is required. Also not required for hollow core precast concrete floors. Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max of 8 in. (203 mm) above top of floor or beyond either surface of wall. As an alternate, in floors only, min 26 gauge galvanized steel sleeve provided with a min. 26 gauge galvanized steel square flange spot welded to the bottom of the sleeve and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sheet metal sleeve is to be cast in place and may extend a max of 2 in. (51 mm) above the top surface of the concrete floor, except that when sleeve is greater than nom 13 in. (330 mm) diam, sleeve shall be installed flush with both surfaces of floor.

3. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening or sleeve shall be min 0 in. (point contact). See Table in Item 4B for max annular space. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
 C. Conduit — Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.
 D. Conduit — Nom 4 in. (102 mm) diam (or smaller) electrical metallic tubing (EMT).
 E. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
 F. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.

Hilti Firestop Systems
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System No. C-AJ-1575

4. Firestop System — The firestop system shall consist of the following:

A. Packing Material — (Not Shown) - Min 1 in. (25 mm) thickness of polyethylene backer rod, mineral wool batt or glass fiber insulation firmly packed into opening as a permanent form. Packing material to be recessed from top or bottom surface of floors/sleeve or from both surfaces of walls/sleeve to accommodate the required thickness of fill material (Item 4B). Packing material is required as specified in Table below.

A1. Forming Materials* — (Optional, Not Shown) As an alternate to Item 4A, min 1 in. (25 mm) thickness of forming material to be foamed into the opening as a permanent form. Forming material to be recessed from top or bottom surface of floors/sleeve or from both surfaces of walls/sleeve to accommodate the required thickness of fill material (Item 4B).

A2. Packing Material* — (Not Shown) - For F Rating, floors only, min 4 in. thick, min 4 pcf (64 kg/m³) mineral batt insulation tightly packed into sleeve and recessed from top or bottom surface of floors/sleeve to accommodate the required thickness of fill material.

B. Fill, Void or Cavity Materials* — Sealant — Applied to fill the annular space flush with top or bottom surface of floors/sleeve. In hollow core precast concrete floors, fill material to be installed flush with the bottom of the floor. Fill material may optionally be installed flush with the top of the assembly. In wall assemblies, fill material to be installed symmetrically on both sides of wall or floor, flush with walls/sleeve or floor surface. In wall assemblies, an additional bead of fill material shall be applied at the point contact location between penetrant and sleeve or between penetrant and concrete, at top surface of floors/sleeve and at both surfaces of walls/sleeve. The bead shall be min 1/2 in. (13 mm) diam and shall extend over the point contact location to the 14 in. (355 mm) annular space. For W Rating, fill material to be installed flush with top of sleeve only and an additional min 1/2 in. (13 mm) bead of sealant shall be applied at the steel/concrete interface on the top surface of the floor. The min required fill material thickness and the location of the sealant at top or bottom of floor opening are dependent upon a number of parameters, as shown in the table below.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

Note: W Rating applies only when FS-ONE MAX Intumescent Sealant is used.

Min Floor or Wall Thick. (in./mm)	Nom Diam of Copper Pipe or Tubing (in./mm)	Nom Diam of Steel/Iron Pipe or Conduit (in./mm)	Max Annular Space (in./mm)	Min Sealant L Thick. (in./mm)	Sealant Flush with Top or Bottom	Packing Mtl	F Rating Hr
2-1/2 (64)	1/2 - 4(13 - 102)	1/2 - 30(13 - 762)	7/8 (22)	1/2 (13)	Top	No	No 2
2-1/2 (64)	1/2 - 4(13 - 102)	1/2 - 8(13 - 203)	2-7/8 (73)	1 (25)	Top	Yes	No 2
2-1/2 (64)	1/2 - 4(13 - 102)	1/2 - 8(13 - 203)	1-7/8 (48)	1/2 (13)	Top	Yes	No 2
2-1/2 (64)	1/2 - 4(13 - 102)	1/2 - 12(13 - 305)	7/8 (22)	1 (25)	Bottom	Yes	No 2
2-1/2 (64)	1/2 - 4(13 - 102)	1/2 - 8(13 - 203)	2-7/8 (73)	1 (25)	Top	Optional	Yes 2
2-1/2 (64)	1/2 - 4(13 - 102)	1/2 - 30(13 - 762)	2-7/8 (73)	1 (25)	Top	Yes	Yes 2
4-1/2 (114)	1/2 - 4(13 - 102)	1/2 - 10(13 - 254)	3-1/4 (83)	1 (25)	Top or Bottom	No	No 3
4-1/2 (114)	1/2 - 4(13 - 102)	1/2 - 30(13 - 762)	7/8 (22)	1/2 (13)	Top	No	No 3
4-1/2 (114)	1/2 - 4(13 - 102)	1/2 - 8(13 - 203)	1-7/8 (48)	1/2 (13)	Bottom	No	No 2

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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UL/cUL SYSTEM NO. W-J-3198
CABLE BUNDLE THROUGH CONCRETE OR BLOCK WALL ASSEMBLY
 F-RATING = 2-HR.
 T-RATING = 3/4-HR. OR 1-HR.
 L-RATING AT AMBIENT = 1.3 OR 2.8 CFM (SEE TABLE BELOW)
 L-RATING AT 400°F = 1.1 OR 1.2 CFM (SEE TABLE BELOW)

1. CONCRETE WALL ASSEMBLY (2-HR. FIRE-RATING):
 A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 6" THICK).
 B. ANY UL/CUL CLASSIFIED CONCRETE BLOCK WALL.

2. (OPTIONAL) CABLE BUNDLE TO BE A COMBINATION OF ANY OF THE FOLLOWING:
 A. MAXIMUM 100 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC JACKET.
 B. MAXIMUM 7/C NO. 12 AWG COPPER CONDUCTOR CONTROL CABLE WITH PVC OR XLPE JACKET AND INSULATION.
 C. MAXIMUM 4/0 AWG TYPE RHH GROUND CABLE.
 D. MAXIMUM 4 PAIR NO. 22 AWG CAT 5 OR 6 COMPUTER CABLE.
 E. MAXIMUM RG 9/U COAXIAL CABLE.
 F. MAXIMUM 1/2" DIAMETER FIBER-OPTIC CABLE (24 FIBER) WITH PVC OR PE JACKET AND INSULATION.
 G. MAXIMUM 3/C NO. 12 AWG MC CABLE.

3. HILTI CFS-SL RK FIRESTOP RETROFIT SLEEVE (2" OR 4") CENTERED WITHIN WALL. DEVICE FLANGES SPUN CLOCKWISE ONTO DEVICE THREADS, BUTTING TIGHTLY TO BOTH SIDES OF WALL. EACH FLANGE SECURED TO WALL ASSEMBLY WITH FOUR 1-1/2" LONG MASONRY SCREWS OR ANCHORS THROUGH PRE-PUNCHED HOLES IN FLANGE.

4. HILTI CFS-PL FIRESTOP PLUG (2" OR 4") CUT TO FIT AROUND THE CABLE BUNDLE AND INSTALLED TIGHTLY WITHIN SLEEVE, FLUSH WITH THE END OF THE SLEEVE ON BOTH SIDES OF THE WALL.

	CFM (PER DEVICE)		CFM / SQ FT	
	AMBIENT	400°F	AMBIENT	400°F
BLANK OPENING (NO CABLES)	1.3	1.1	3.8	3
CABLES (MAX 33% FILL)	2.8	1.2	8.1	3.3

NOTES: 1. MAXIMUM DIAMETER OF OPENING = 6" (FOR 2" DEVICE) AND 8" (FOR 4" DEVICE).
 2. CABLES MAY REPRESENT 0% TO 60% OF CROSS-SECTIONAL AREA OF DEVICE.
 3. ANNULAR SPACE BETWEEN DEVICE AND PERIPHERY OF OPENING = MINIMUM 0", MAXIMUM 2".
 4. DEVICE IS DESIGNED TO ALLOW INSTALLATION BEFORE OR AFTER THE CABLE PENETRANTS ARE IN PLACE.

Hilti Firestop Systems
 HILTI, Inc. Tulsa, Oklahoma USA (800) 879-8000
 Drawing No. WJ 3198a
 Date: Jan. 28, 2013

UL/cUL SYSTEM NO. W-J-3198
CABLE BUNDLE THROUGH CONCRETE OR BLOCK WALL ASSEMBLY
 F-RATING = 2-HR.
 T-RATING = 3/4-HR. OR 1-HR.
 L-RATING AT AMBIENT = 1.3 OR 2.8 CFM (SEE TABLE BELOW)
 L-RATING AT 400°F = 1.1 OR 1.2 CFM (SEE TABLE BELOW)

FRONT VIEW

SECTION A-A

Hilti Firestop Systems
 HILTI, Inc. Tulsa, Oklahoma USA (800) 879-8000
 Drawing No. WJ 3198a
 Date: Jan. 28, 2013

METAL PIPE THROUGH CONCRETE WALL

TYPICAL PRACTICE ADA MOUNTING HEIGHTS

3

ENLARGED PLAN AT EXISTING CONCRETE WALL

2

RECORD DRAWINGS:
 DESIGNER: _____ DATE: _____
 PUBLIC WORKS INSPECTOR: _____ DATE: _____
 UTILITY/FACILITY DEPT. HEAD: _____ DATE: _____
 PROJECT ENGINEER: _____ DATE: _____
 PUBLIC IMPROVEMENTS INITIALLY ACCEPTED BY THE CITY COUNCIL ON: _____ RES. NO. _____

REVISIONS

NO.	ISSUE DESCRIPTION	ENGR. APR.	DATE
1	ISSUED FOR PERMIT		10/09/2019
2	RE-ISSUE FOR PERMIT		10/24/2019
3	RE-ISSUE FOR PERMIT		10/31/2019

CITY OF MILPITAS FIRE STATION NO. 2 TEMP. STATION
 1126 YOSEMITE DRIVE, MILPITAS, CA

ELECTRICAL DETAILS

RECOMMENDED FOR BUILDING BY: _____ DATE: _____

City Project Number: 3447
 REC. DWG NO. _____
 SCALE: AS NOTED
 Drawing No. **E-002**
 Sheet No. _____ of _____



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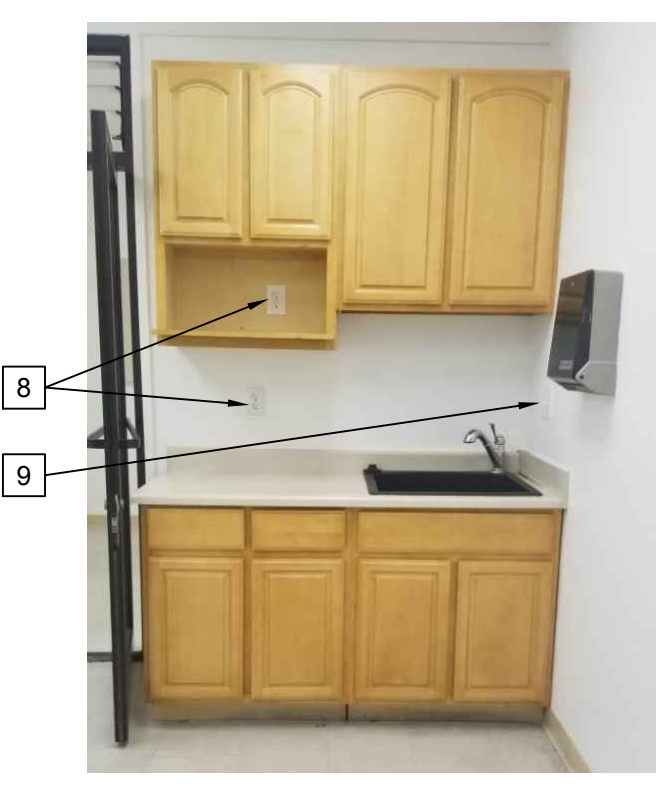
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CKT %WD	DIST (FT)	LOAD NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA			COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %WD	
									PHASE A	PHASE B	PHASE C										
				1	SPACE																
	1.3			3	EXISTING LOADS	20	1	E				E	1	20	EXISTING LOADS	2		1.3			
	1.3			5	EXISTING LOADS	20	1	E				E	1	20	EXISTING LOADS	4		1.3			
	1.3			7	EXISTING LOADS	70	3	E				E	1	20	EXISTING LOADS	6		1.3			
				9	"			E				E	1	20	EXISTING LOADS	8		1.3			
				11	"			E				E	1	20	EXISTING LOADS	10		1.3			
	1.3			13	EXISTING LOADS	20	1	E				E	1	20	EXISTING LOADS	12		1.3			
	1.3			15	EXISTING LOADS	20	1	E				E	1	20	EXISTING LOADS	14		1.3			
	1.3			17	EXISTING LOADS	20	1	E				E	1	20	EXISTING LOADS	16		1.3			
				19	SPACE										NOT LABELLED	18		1.3			
	1.3			21	EXISTING LOADS	30		E							NOT LABELLED	20		1.4			
				23	"			E							NOT LABELLED	22		1.4			
				25	"			E							NOT LABELLED	24		1.4			
	2.5			27	CIRCUIT 1 FROM MSB	20	1	E	3000			10	1	30	(N)GENERATOR BATTERY CHARGER AND BLOCK HEATER	26		5			
	2.5			29	CIRCUIT 3 FROM MSB	20	1	E		100		12	1	20	(N)SMOKE ALARM AND CARBON MONOXIDE	28		2.5			
	2.5			31	CIRCUIT 7 FROM MSB	20	1	E			50	12	1	20	(N)FIRE/SMOKE DAMER	30		2.5			
	2.5			33	CIRCUIT 9 FROM MSB	20	1	E							SPACE	32					
	2.5			35	CIRCUIT 11 FROM MSB	20	1	E							SPACE	34					
	2.5			37	(N)REFRIGERATOR	20		12	900						SPACE	36					
	2.5			39	(N)GAS RANGE AND HOOD FAN	20		12		500					SPACE	38					
	2.5			41	(N)APPLIANCES	20		12			1500				SPACE	40					
									CON:	3900	600	1550									
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									SUB:	0	0	0									
									TOT:	3900	600	1550									
									AMPS:	33	5	13									

PANEL SCHEDULE NOTES

- EXISTING BREAKER TO REMAIN.
- "AFCI" BREAKER REQUIRED.
- EXISTING BRANCH CIRCUIT TO REMAIN. NO CHANGE TO CONNECTED LOAD.
- BREAKER NOT LABELED IN EXISTING PANEL. VERIFY LOAD AND LABEL BRANCH CIRCUIT OR "SPARE" AS APPLICABLE.
- NEW CIRCUIT BREAKER REQUIRED.
- PROVIDE CIRCUIT BREAKER LOCKING DEVICE.

Architect of Record SHAH KAWASAKI ARCHITECTS 570 10th Street, Suite 201 Oakland, CA 94607 Consultant Thoma Engineering THOMA ELECTRIC, INC. P.O. Box 1187 3862 Emigado St. San Luis Obispo, CA 93405 Phone: (805) 543-3850 Fax: (805) 543-3829 cae@thomaelect.com	DESIGNER STAMP:  EXPIRES: 08/30/21 THOMA #19-8033.01	RECORD DRAWINGS: DESIGNER: _____ DATE: _____ PUBLIC WORKS INSPECTOR: _____ DATE: _____ UTILITY/FACILITY DEPT. HEAD: _____ DATE: _____ PROJECT ENGINEER: _____ DATE: _____ PUBLIC IMPROVEMENTS INITIALLY ACCEPTED BY THE CITY COUNCIL ON: _____ RES. NO. _____		DRAWN BY: _____ DATE: _____ CHECKED BY: _____ DATE: _____ DESIGNED BY: _____ DATE: _____		REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>ISSUE DESCRIPTION</th> <th>ENGR. APR.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ISSUED FOR PERMIT</td> <td></td> <td>10/08/2019</td> </tr> <tr> <td>2</td> <td>RE-ISSUE FOR PERMIT</td> <td></td> <td>10/24/2019</td> </tr> <tr> <td>3</td> <td>RE-ISSUE FOR PERMIT</td> <td></td> <td>10/31/2019</td> </tr> <tr> <td>4</td> <td>RESPONSE TO CITY PERMIT</td> <td></td> <td>11/11/2019</td> </tr> </tbody> </table>			NO.	ISSUE DESCRIPTION	ENGR. APR.	DATE	1	ISSUED FOR PERMIT		10/08/2019	2	RE-ISSUE FOR PERMIT		10/24/2019	3	RE-ISSUE FOR PERMIT		10/31/2019	4	RESPONSE TO CITY PERMIT		11/11/2019		City Project Number: 3447 REC. DWG NO.	
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CITY OF MILPITAS FIRE STATION NO. 2 TEMP. STATION 1126 YOSEMITE DRIVE, MILPITAS, CA PANEL SCHEDULE RECOMMENDED FOR BIDDING BY: _____ DATE: _____ MICHAEL SILVERA, P.E.						NOTE: If this drawing is not 36"x24" it has been revised from its original size and the scales noted on drawing/details are no longer applicable. © 2019 Shah Kawasaki Architects Drawing No. E-003 Sheet No. _____ of _____																									



FRONT PICTURE OF EXISTING CABINET 4



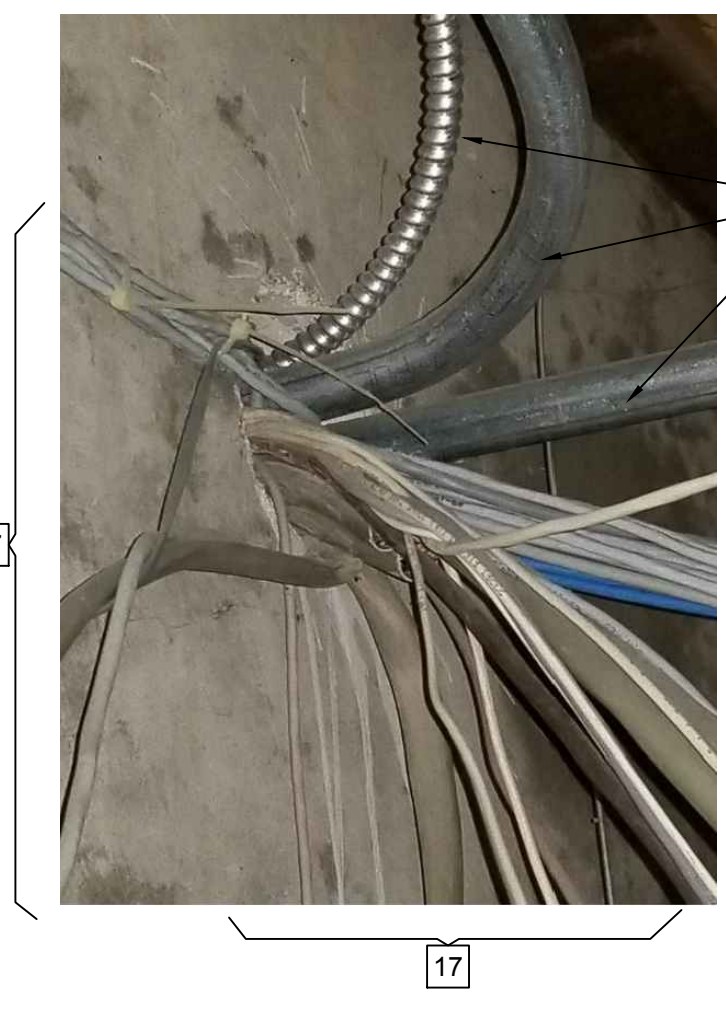
PICTURE AT ELECTRICAL ROOM 1



FRONT PICTURE OF EXISTING PANEL "P2" 5



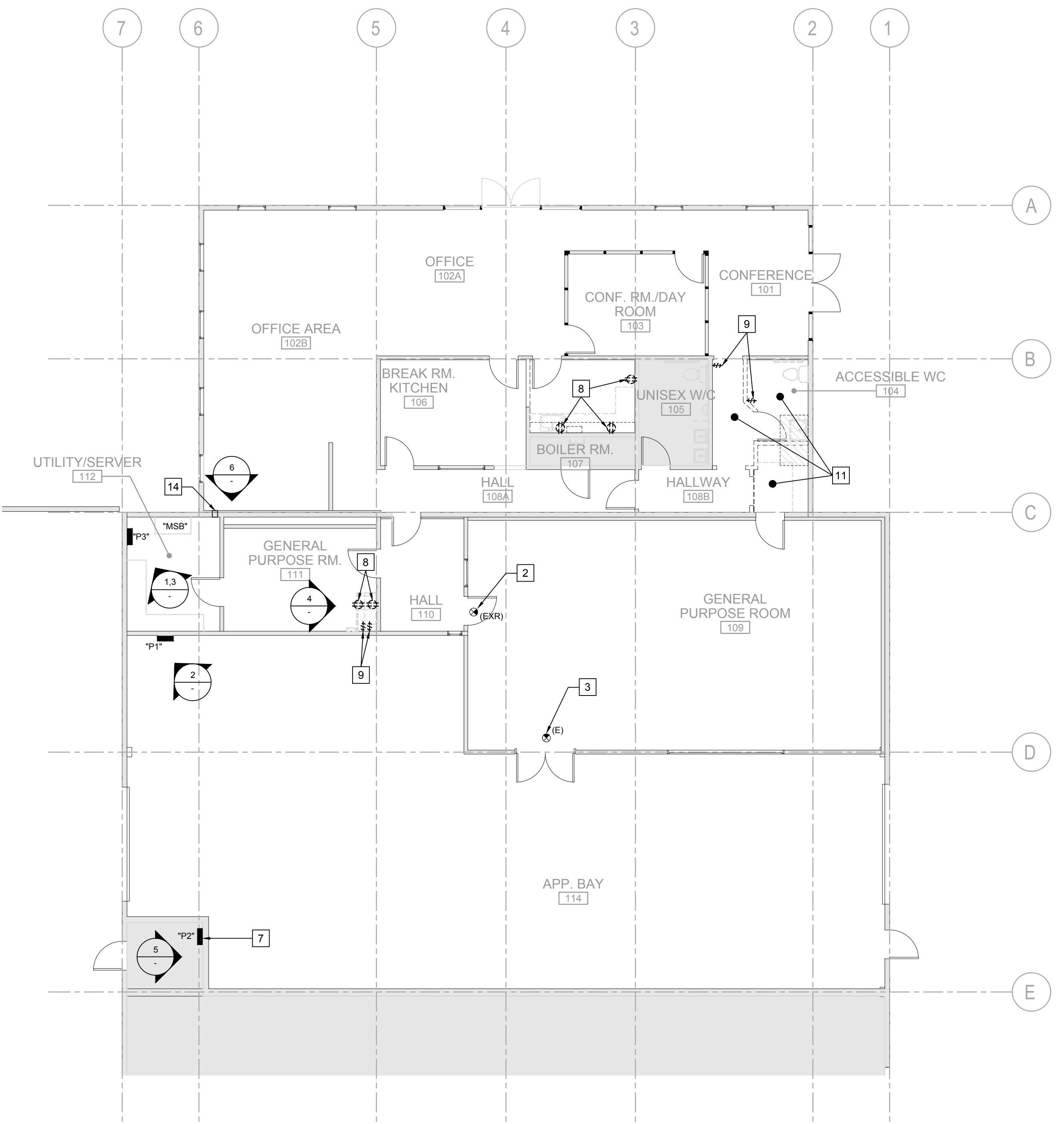
FRONT PICTURE OF EXISTING PANEL "P1" 2



EXISTING PENETRATION AT EXISTING WALL 6



FRONT PICTURE OF EXISTING PANEL P3 3



ELECTRICAL DEMOLITION PLAN A4
1/8" = 1'-0"

REFERENCE NOTES

- EXISTING PANEL "P1" AND SURFACE CONDUITS TO REMAIN.
- REMOVE/DISCONNECT CEILING MOUNTED EXIT SIGN. RELOCATE TO HALLWAY 110.
- EXISTING CEILING MOUNTED EXIT SIGN TO REMAIN.
- EXISTING MAIN SWITCHBOARD, "MSB" TO REMAIN. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL WORK.
- EXISTING PANEL "P3". INTERCEPT EXISTING FEEDER FROM "MSB" AND EXTEND TO NEW AUTOMATIC TRANSFER SWITCH PER SINGLE LINE DIAGRAM.
- EXISTING TELEPHONE BACKBOARD TO REMAIN.
- EXISTING PANEL "P2" TO REMAIN.
- DISCONNECT/REMOVE EXISTING OUTLET.
- DISCONNECT/REMOVE EXISTING SWITCH.
- NOT USED.
- ANY EXISTING LIGHTS AND OUTLETS AT THIS AREA TO BE REMOVED AND DISCONNECTED.
- NOT USED.
- NOT USED.
- EXISTING DATA/POWER PENETRATION AT EXISTING WALL ABOVE T-BAR CEILING.
- KEEP EXISTING EXISTING LOW VOLTAGE WIRING AND PROVIDE A HILTI FIRESTOP SPEED SLEEVE 4" FIRE STOP PROTECTION.
- REMOVE EXISTING ELECTRICAL BRANCH CIRCUIT/FEEDER CONDUIT AND PROVIDE SEPARATE FIRE RATED PENETRATION PER DETAIL 1/E-002 AT RATED WALL. REFER TO ENLARGED PLAN 2 ON SHEET E-002 FOR ADDITIONAL INFORMATION.
- EXISTING LOW VOLTAGE CABLES TO REMAIN. DRILL HOLE AND PROVIDE/INSTALL 4" HILTI RETROFIT KIT PER MANUFACTURER INSTRUCTIONS. REFER TO DETAIL 4 ON SHEET E-002 FOR INSTRUCTION AT RATED WALL.

GENERAL NOTES

- REFER TO ARCHITECTURAL DEMOLITION SHEETS FOR ADDITIONAL INFORMATION.
- EQUIPMENT SHOWN TO BE REMOVED IS SHOWN FOR REFERENCE ONLY. INFORMATION WAS OBTAINED FROM ORIGINAL BUILDING DRAWINGS AND LIMITED FIELD INVESTIGATION AND MAY NOT REPRESENT ALL ELECTRICAL DEMOLITION. FIELD VERIFY CONDITIONS AND DISCONNECT/REMOVE ALL EQUIPMENT AS REQUIRED TO MEET THE INTENT OF THAT SHOWN ON THE LIGHTING AND POWER/SIGNAL DRAWINGS.
- ALL ELECTRICAL EQUIPMENT SHOWN ON DRAWING (OR REQUIRED) TO BE DEMOLISHED SHALL BE DISCONNECTED, REMOVED AND DISPOSED OF BY ELECTRICAL CONTRACTOR. NO EQUIPMENT (RACEWAYS, BOXES, CABLING, ETC.) SHALL BE ABANDONED IN PLACE AND COVERED BY NEW CONSTRUCTION.
- CLEAN, REPAIR (AS REQUIRED) AND RELAMP ALL EXISTING LIGHT FIXTURES THAT ARE TO REMAIN AND BE RE-USED TO ASSUME ALL FIXTURE ARE OPERATIONAL UPON COMPLETION OF PROJECT.
- ANY LIGHT SWITCHES THAT ARE NO LONGER IN USE, WHETHER SHOWN ON THE DEMOLITION PLAN OR NOT, ARE TO HAVE THE DEVICE AND WIRING REMOVED, AND A BLANK COVER PLATE INSTALLED.
- SCHEDULE ANY OUTAGES WITH OWNER PRIOR TO DE-ENERGIZATION OF ANY BRANCH CIRCUITS OR FEEDERS.
- DISCONNECTION/REMOVAL OF EXISTING COMMUNICATIONS SYSTEMS COMPONENTS SHALL BE SCHEDULED WITH OWNER AND COORDINATED WITH THEIR VENDORS.
- SALVAGE ALL REMOVED COMPONENTS (SPEAKERS, GRILLES, TELEPHONE INSTRUMENTS, RADIO HANDSETS, ETC.) SHALL BE SALVAGED TO THE OWNER.
- INFORMATION SHOWN FOR LOAD DESCRIPTIONS ON EXISTING PANELS WAS GAINED FROM ORIGINAL BUILDING ELECTRICAL PLANS AND SHALL BE FIELD VERIFIED. CONFIRM LOAD ON EACH CIRCUIT OF ALL EXISTING PANELS AND PROVIDE UPDATED TYPEWRITTEN CIRCUIT DIRECTORY (IN PLASTIC SLEEVE) FOR EACH EXISTING PANELBOARD.
- ANY LOADS REMOVED DURING DEMOLITION SHALL HAVE CONDUCTORS REMOVED BACK TO NEXT REMAINING DEVICE OR TO EXISTING PANELS. ABANDONED BREAKERS SHALL BE LABELED "SPARE".
- PROVIDE BLANK FILLER PLATES IN DEADFRONTS OF EXISTING PANELBOARDS UPON COMPLETION OF PROJECT WHERE BREAKERS HAVE BEEN REMOVED.
- PROVIDE NEW PLASTIC, LAMINATED ENGRAVED NAMEPLATES FOR EACH EXISTING PANEL TO MATCH NEW PANELS.

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cso@thomaelec.com

DESIGNER STAMP:
REGISTERED PROFESSIONAL ELECTRICIAN
WILLIAM A. THOMAS
ELECTRICIAN
STATE OF CALIFORNIA
EXPIRES: 08/30/21
THOMA #19-8033.01

RECORD DRAWINGS:

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PUBLIC WORKS INSPECTOR: _____ DATE: _____
UTILITY/FACILITY DEPT. HEAD: _____ DATE: _____
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CITY OF MILPITAS FIRE STATION NO. 2 TEMP. STATION
1126 YOSEMITE DRIVE, MILPITAS, CA

City Project Number: 3447
REC. DWG NO. _____

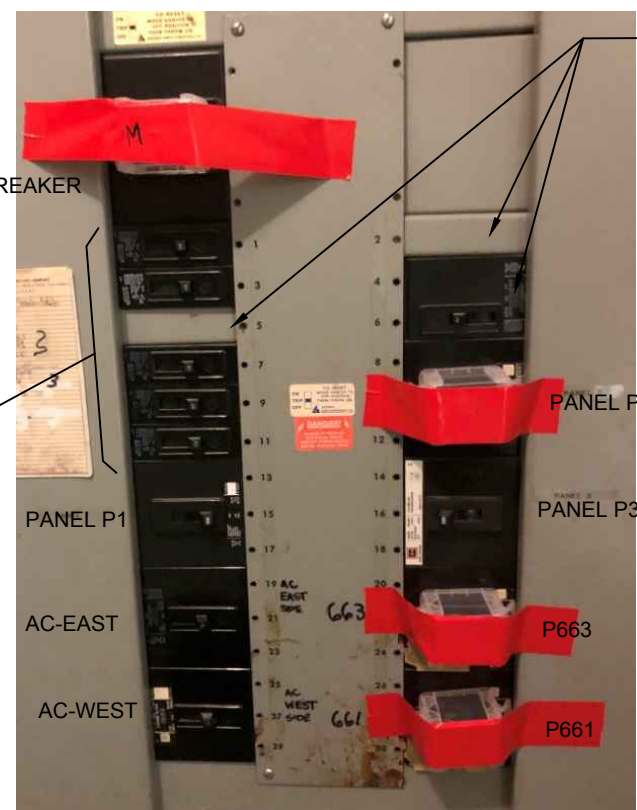
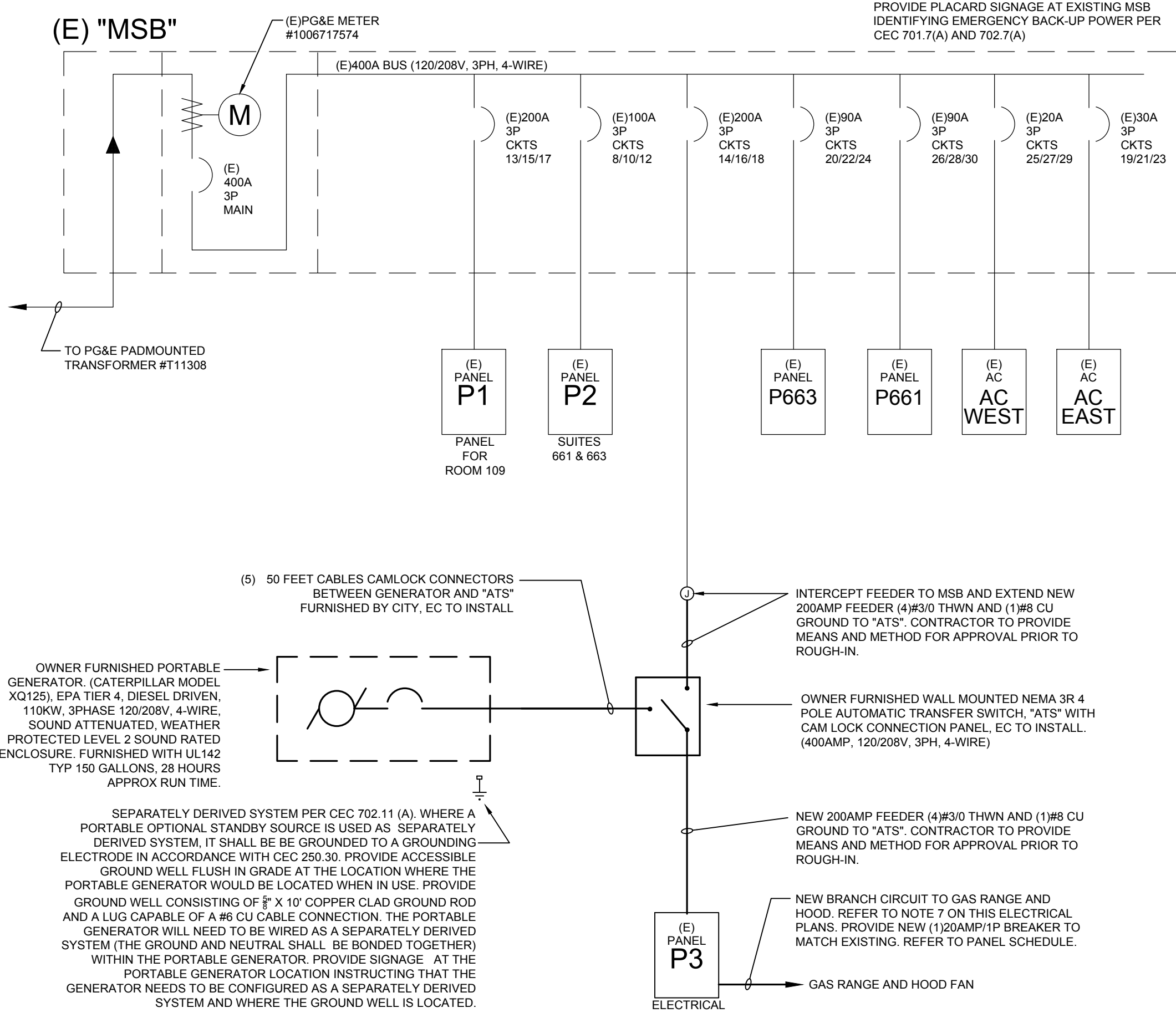
Drawing Title: **ELECTRICAL DEMOLITION PLANS**

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MICHAEL SILVERA, P.E.

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SCALE: AS NOTED
Drawing No. **E-101**
Sheet No. _____ of _____

SINGLE LINE DIAGRAM



PICTURE OF CIRCUIT BREAKERS AT MSB SWITCHBOARD

SINGLE LINE DIAGRAM NOTES

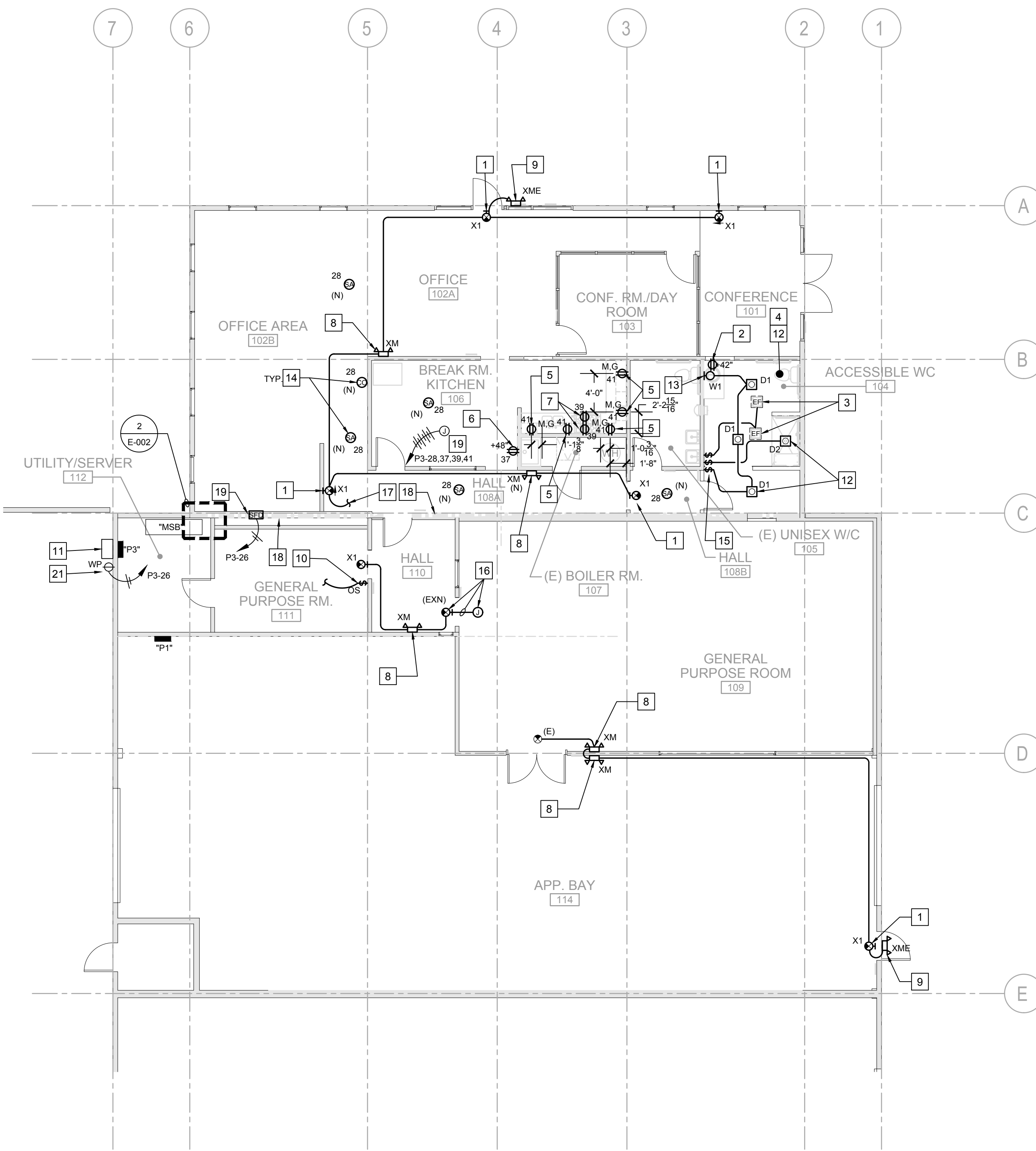
- EXISTING ELECTRICAL SERVICE HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITION AS SHOWN ON THESE PLANS.
- ALL CONDUCTORS SHALL BE COPPER WITH TYPE [THHN/THWN] INSULATION UNLESS OTHERWISE NOTED.
- ALL SWITCHES, CIRCUIT BREAKERS AND OTHER EQUIPMENT, AS SPECIFIED, SHALL HAVE TERMINATION PROVISIONS LISTED AND IDENTIFIED FOR USE WITH 75 DEG. CONDUCTORS, AND ALL FEEDER CONDUCTORS, AND CONDUITS, ARE SIZE BASED ON USE OF 75 DEG. C COPPER WIRES TYPE THWN/THHN.
- ALL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED [UL, CSA, ETC.] (CEC 110-2).
- ALL BOXES AND ENCLOSURES (INCLUDING TRANSFER SWITCHES, GENERATORS, AND POWER PANELS) FOR EMERGENCY CIRCUITS SHALL BE PERMANENTLY MARKED SO THEY WILL BE READILY IDENTIFIED AS A COMPONENT OF AN EMERGENCY CIRCUIT OR SYSTEM, PER NEC 700-9(A).

REFERENCE NOTES

- NEW COMBINATION EXIT AND EMERGENCY LIGHTING FIXTURE TYPE X1 WITH 90 MINUTE BATTERY BACK-UP. (LITHONIA #ECC M M6 OR APPROVED EQUAL).
- EXTEND EXISTING RECEPTACLE BRANCH CIRCUIT FROM ROOM 105 TO NEW RECEPTACLE. MOUNT AT +42" AFF.
- CONNECT TO EXISTING EXHAUST FAN PER MECHANICAL PLANS.
- EXTEND EXISTING LIGHTING BRANCH CIRCUIT FROM ROOM 105 TO NEW LIGHTS.
- PROVIDE NEW BRANCH CIRCUIT FOR NEW COUNTER RECEPTACLES.
- PROVIDE NEW BRANCH CIRCUIT FOR NEW REFRIGERATOR RECEPTACLE.
- PROVIDE NEW BRANCH CIRCUIT TO NEW STOVE/FAN FROM PANEL "P3". COORDINATE EXACT LOCATION OF RECEPTACLE FOR HOOD/FAN PRIOR TO ROUGH-IN.
- NEW EMERGENCY LIGHTING WITH 90 MINUTE BATTERY BACK UP. (LITHONIA #ELM2L M12 OR APPROVED EQUAL)
- NEW EXTERIOR RATED EMERGENCY LIGHTING WITH 90 MINUTE BATTERY BACK UP (LITHONIA #ELTU-MR OR APPROVED EQUAL).
- PROVIDE NEW WALL SWITCH AT EXISTING WALL. CONNECT TO EXISTING LIGHTS IN THE ROOM.
- NEW OWNER FURNISHED AUTOMATIC TRANSFER SWITCH WITH CAM LOCK CONNECTION EC TO INSTALL. CONTRACTOR TO PROVIDE A COMPLETE WORKING SYSTEM. INTERCEPT EXISTING FEEDERS AND NEW FEEDERS FROM "ATS" TO PANEL P3 PER SINGLE LINE DIAGRAM.
- PROVIDE A DAMP RATED LED 4IN ROUND WITH IC RATED HOUSING AND (JUNO #IC1LED-G4-09LM 30K 90CRI 120FRPC OR APPROVED EQUAL). PROVIDE 4" DOWNLIGHT WHITE TRIM #17CWH FOR AT "D1" AND ONE LENSE DROP OPAL TRIM AT SHOWER #11WH FOR "D2".
- FIXTURE TYPE W1: PROVIDE 2' LED VANITY LIGHT MOUNTED ABOVE MIRROR. (LITHONIA #FMTSL 24" MVOLT 30K 90CRI BN OR APPROVED EQUAL)
- PROVIDE 120V SMOKE ALARM AND CARBON MONOXIDE. REFER TO GENERAL NOTES ON SHEET E-001.
- PROVIDE VACANCY SWITCH.
- EXISTING EXIT SIGN AT NEW LOCATION. INTERCEPT EXISTING BRANCH CIRCUIT FROM PREVIOUS LOCATION AND EXTEND TO NEW WITH 1/2" C (2)#12 AWG AND (1)#12 CU GROUND.
- INTERCEPT EXISTING LIGHTING BRANCH CIRCUIT IN THIS ROOM WITH A CONTINUOUS HOT.
- ANY CONDUIT PENETRATION TO EXISTING WALL AT GRID "C" REFER TO DETAIL 1/E-002.
- CONNECT TO 120V SMOKE FIRE DAMPER PER MECHANICAL PLANS. PROVIDE NEW HOMERUN TO PANEL P3 WITH 1/2" C (2)#12 AWG AND (1)#12 CU GROUND.
- NEW BRANCH CIRCUIT HOMERUN TO PANEL P3 FOR REFRIGERATOR, STOVE, KITCHEN APPLIANCES, AND SMOKE ALARM. REFER TO PANEL SCHEDULE. PROVIDE 3/4" C. (EMT) WITH (8)#12 THHN AND (1)#12 CU GROUND.
- PROVIDE A 30AMP, 125V NEMA L5-30 FOR PORTABLE GENERATOR BATTERY CHARGER AND BLOCK HEATER. PROVIDE WHILE USE COVER. PROVIDE 1/2" C (EMT) WITH (2)#10 THHN AND (1)#10 CU GROUND

GENERAL NOTES

- INSTALL SEPARATE NEUTRALS FOR EACH BRANCH CIRCUIT SERVING ISOLATED GROUND RECEPTACLES.
- DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING ROUGH-IN WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, FURNITURE, ETC. AND SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH OTHER EQUIPMENT.
- ALL NEW OUTLETS SHOWN AT R-2 OCCUPANCY PROVIDE TAMPER-PROOF OUTLETS PER CEC 406.12 AND AFCI CEC 210.12. REFER TO CODE DIAGRAM ON SHEET A-002 FOR R-2 OCCUPANCY.



ELECTRICAL FLOOR PLAN A4
1/8" = 1'-0"

Architect of Record SHAH KAWASAKI ARCHITECTS 570 10th Street, Suite 201 Oakland, CA 94607 Consultant Thoma ENGINEERING THOMA ELECTRIC, INC. P.O. Box 1107, 3802 Empire St. San Luis Obispo, CA 93409 Phone: (805) 543-3850 Fax: (805) 543-3829 cec@thomaelectric.com	DESIGNER STAMP: EXPIRES: 08/30/21 THOMA #19-8033.01	RECORD DRAWINGS: DESIGNER: _____ DATE: _____ PUBLIC WORKS INSPECTOR: _____ DATE: _____ UTILITY/FACILITY DEPT. HEAD: _____ DATE: _____ PROJECT ENGINEER: _____ DATE: _____ PUBLIC IMPROVEMENTS INITIALLY ACCEPTED BY THE CITY COUNCIL ON: _____ RES. NO. _____	DRAWN BY: _____ DATE: _____ CHECKED BY: _____ DATE: _____ DESIGNED BY: _____ DATE: _____	REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>ISSUE DESCRIPTION</th> <th>ENGR. APR.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ISSUED FOR PERMIT</td> <td></td> <td>10/08/2019</td> </tr> <tr> <td>2</td> <td>RE-ISSUE FOR PERMIT</td> <td></td> <td>10/24/2019</td> </tr> <tr> <td>3</td> <td>RE-ISSUE FOR PERMIT</td> <td></td> <td>10/31/2019</td> </tr> </tbody> </table>	NO.	ISSUE DESCRIPTION	ENGR. APR.	DATE	1	ISSUED FOR PERMIT		10/08/2019	2	RE-ISSUE FOR PERMIT		10/24/2019	3	RE-ISSUE FOR PERMIT		10/31/2019	 CITY OF MILPITAS FIRE STATION NO. 2 TEMP. STATION 1126 YOSEMITE DRIVE, MILPITAS, CA Drawing Title ELECTRICAL FLOOR PLAN AND SINGLE LINE DIAGRAM RECOMMENDED FOR BIDDING BY: _____ DATE: _____ MICHAEL SILVERA, P.E.	City Project Number: 3447 REC. DWG NO. SCALE: AS NOTED Drawing No. E-102 Sheet No. _____ of _____
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