

	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
M	<div> <div>ENVIRONMENTAL HEALTH 2ND FLOOR REMODEL</div> <div>1131 HARBOR BAY PARKWAY</div> <div>ALAMEDA, CA 94502</div> </div>															
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VICINITY MAP

<u>GENERAL</u>		<u>MECHANICAL</u>	
A-001	COVER SHEET	M-001	SYMBOLS LIST AND GENERAL NOTES – MECHANICAL
A-002	CODE DIAGRAM	M-002	SCHEDULES AND DIAGRAMS – MECHANICAL
A-003	CODE DETAILS	M-201	ENLARGED PLANS – OFFICES – MECHANICAL
		M-202	ENLARGED PLANS – CONF. AND MDF ROOM – MECHANICAL
<u>ARCHITECTURAL</u>		M-203	OVERALL ROOF PLAN – MECHANICAL
A-121	OVERALL FLOOR PLAN	M-301	DETAILS - MECHANICAL
A-131	OVERALL REFLECTED CEILING PLAN		
A-141	BUILDING ROOF PLAN		
A-400	ENLARGED PLANS		
A-401	ENLARGED PLANS		
A-402	ENLARGED RCP		
A-403	ENLARGED RCP	<u>ELECTRICAL</u>	
A-511	INTERIOR METAL PARTITION DETAILS	E-001	SYMBOLS LIST AND GENERAL NOTES – ELECTRICAL
A-512	INTERIOR CEILING DETAILS	E-101	OVERALL SECOND FLOOR PLAN – ELECTRICAL
A-513	INTERIOR DOOR & WINDOW DETAILS	E-201	LIGHTING PLANS – OFFICES – ELECTRICAL
A-601	DOOR, WINDOW AND FINISH SCHEDULES	E-301	POWER PLANS – OFFICES – ELECTRICAL
		E-302	OVERALL ROOF PLAN – ELECTRICAL




PROJECT TEAM

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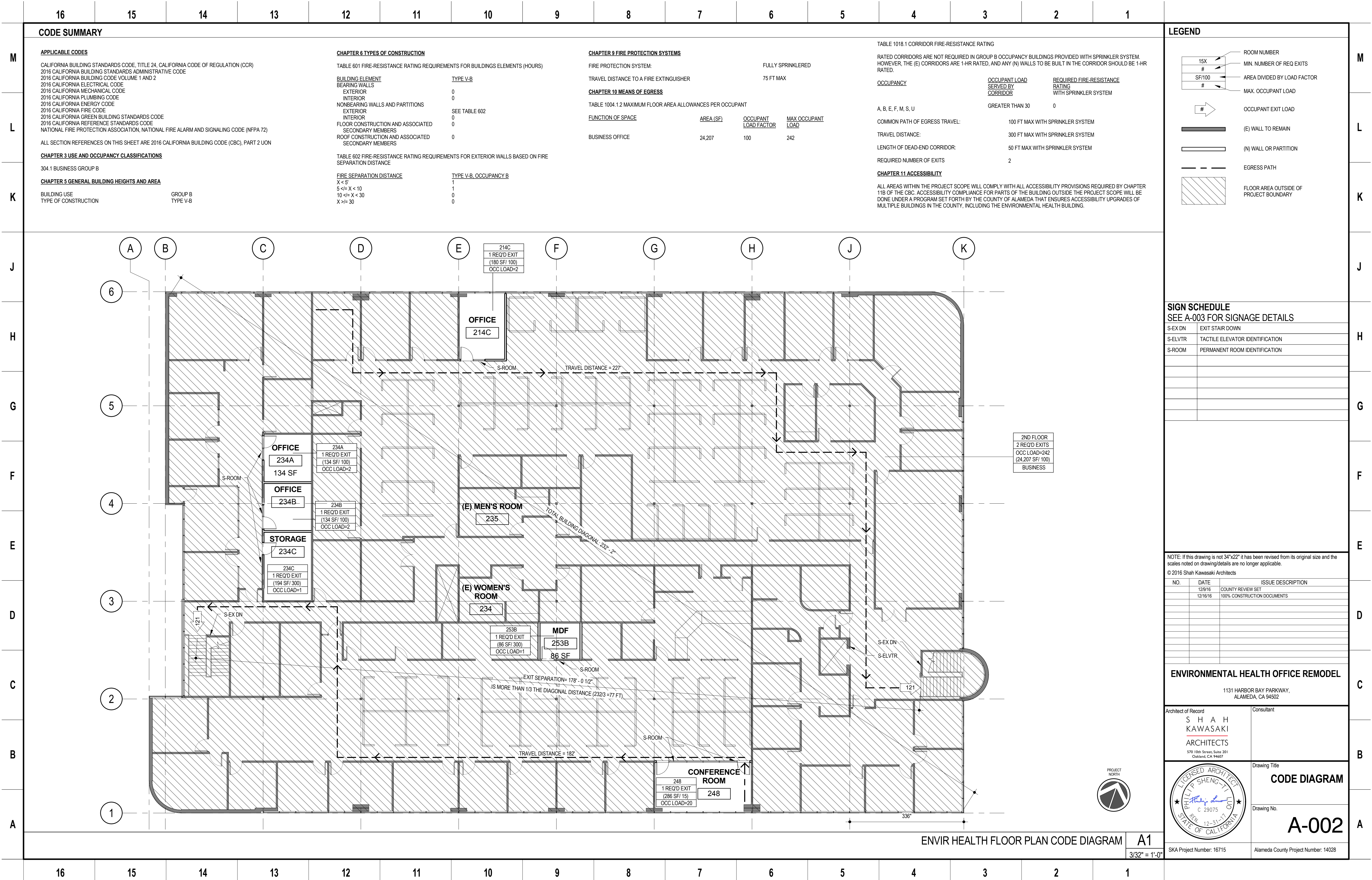
ENVIRONMENTAL HEALTH OFFICE REMODEL

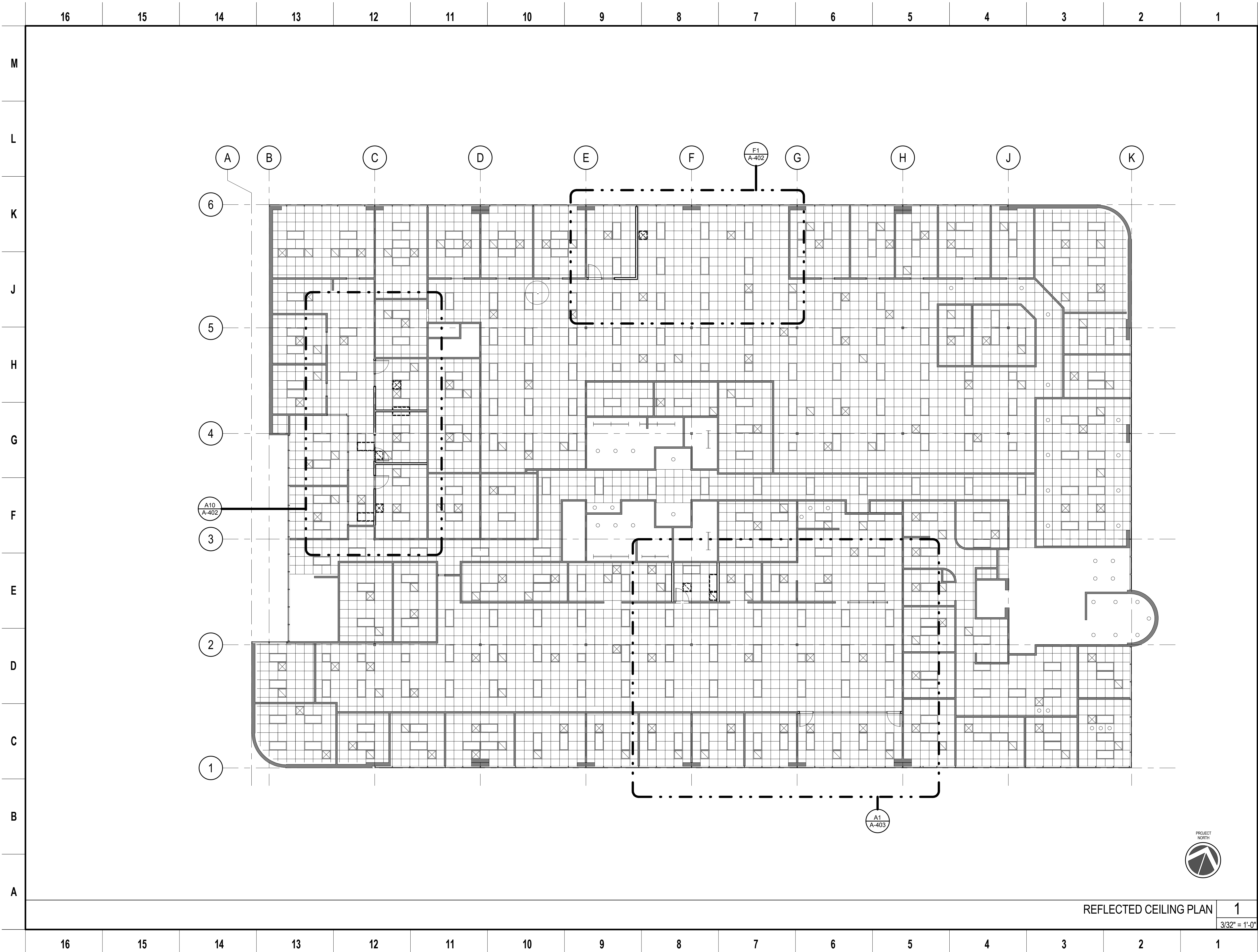
1131 HARBOR BAY PARKWAY,
ALAMEDA, CA 94502

	Drawing Title <h1 style="margin: 0;">COVER SHEET</h1>
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ARCHITECTURAL SYMBOLS

- | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|
| 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
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- SHEET NOTES**
1. CASEWORK, FURNITURE AND EQUIPMENT BELOW CEILING IS SHOWN AS DASHED LINES.
 2. TYP CLG HEIGHT AT 9'-0" AFF, UON
 3. SEE A-512 FOR TYPICAL CEILING DETAILS
 4. SEE MECHANICAL & ELECTRICAL DWGS FOR ADDITIONAL INFO

- LEGEND**
- (E) EXISTING LIGHT FIXTURE
(N) NEW LIGHT FIXTURE
 - (E) SUSPENDED ACOUSTIC
CEILING TILE (2' X 2')
 - (E) SUPPLY DIFFUSER
 - (E) EXHAUST GRILLE
 - (N) SMOKE DETECTOR
 - (N) AUDIOVISUAL FIRE ALARM
 - (E) FIRE SPRINKLER HEAD

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	12/9/16	COUNTY REVIEW SET
	12/16/16	100% CONSTRUCTION DOCUMENTS

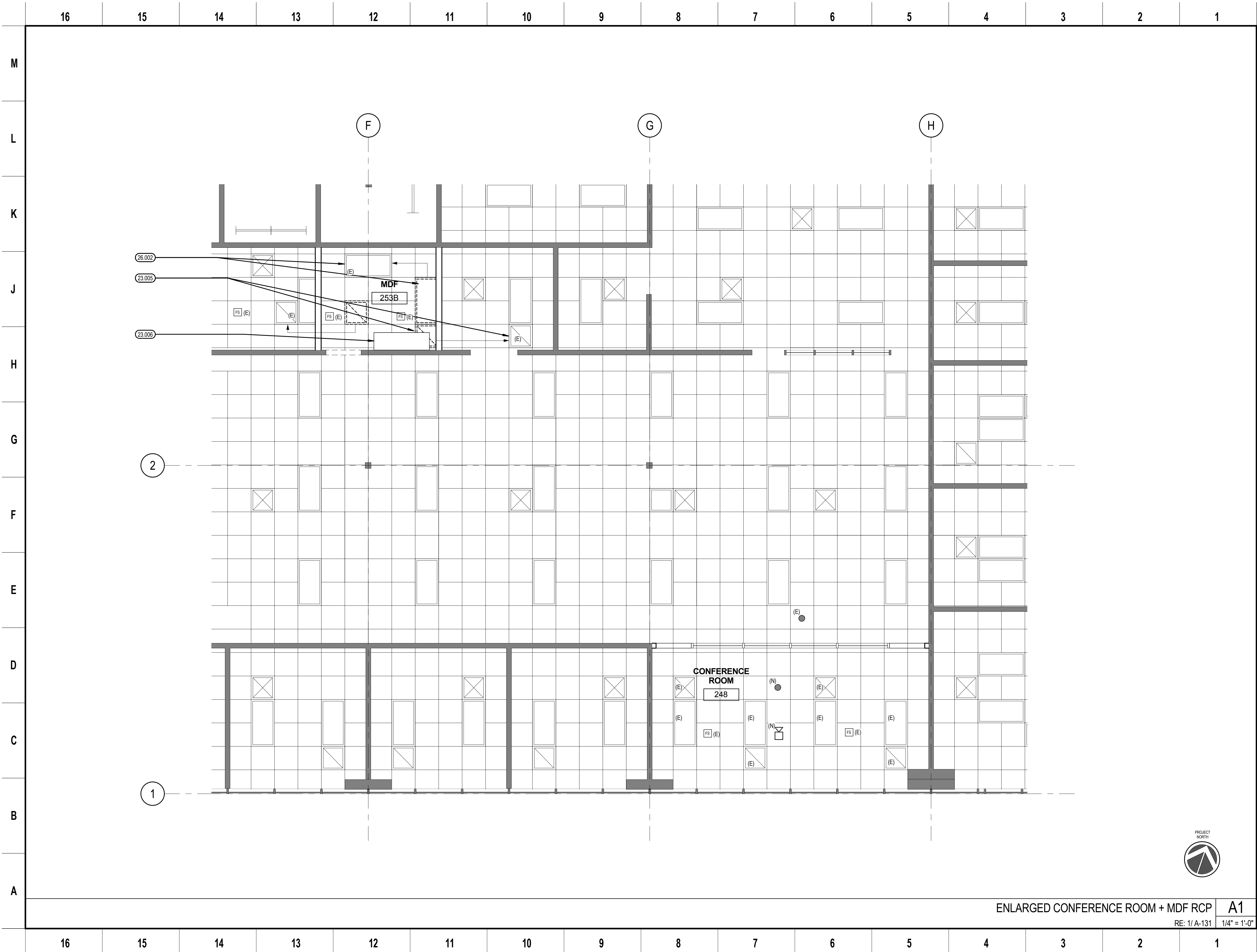
ENVIRONMENTAL HEALTH OFFICE REMODEL
1131 HARBOR BAY PARKWAY,
ALAMEDA, CA 94502

Architect of Record SHAH KAWASAKI ARCHITECTS 570 10th Street, Suite 301 Oakland, CA 94607	Consultant
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	Drawing Title OVERALL REFLECTED CEILING PLAN Drawing No. A-131
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SKA Project Number: 16715	Alameda County Project Number: 14028
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REFLECTED CEILING PLAN 1
3/32" = 1'-0"



- SHEET NOTES**
1. CASEWORK, FURNITURE AND EQUIPMENT BELOW CEILING IS SHOWN AS DASHED LINES.
 2. TYP CLG HEIGHT AT 9' - 0" AFF. UON
 3. SEE A-512 FOR TYPICAL CEILING DETAILS
 4. SEE MECHANICAL & ELECTRICAL DWGS FOR ADDITIONAL INFO

- LEGEND**
- (E) EXISTING LIGHT FIXTURE
(N) NEW LIGHT FIXTURE
 - (E) SUSPENDED ACOUSTIC CEILING TILE (2' X 2')
 - (E) SUPPLY DIFFUSER
 - (E) EXHAUST GRILLE
 - (N) SMOKE DETECTOR
 - (N) AUDIOVISUAL FIRE ALARM
 - (E) FIRE SPRINKLER HEAD

- KEY NOTES**
- 23.005 RELOCATE (E) RETURN AIR REGISTER. RELOCATE AND/OR REPLACE ANY DAMAGED ACT AS REQUIRED. SMD FOR EXACT LOCATIONS
- 23.006 (N) FCU. SMD
- 26.002 ROTATE AND/OR RELOCATE (E) LIGHT. RELOCATE AND/OR REPLACE ANY DAMAGED ACT AS REQUIRED. SED FOR EXACT LOCATIONS

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ENVIRONMENTAL HEALTH OFFICE REMODEL

1131 HARBOR BAY PARKWAY,
ALAMEDA, CA 94502

Architect of Record
SHAH KAWASAKI ARCHITECTS
579 10th Street, Suite 301
Oakland, CA 94607

Consultant

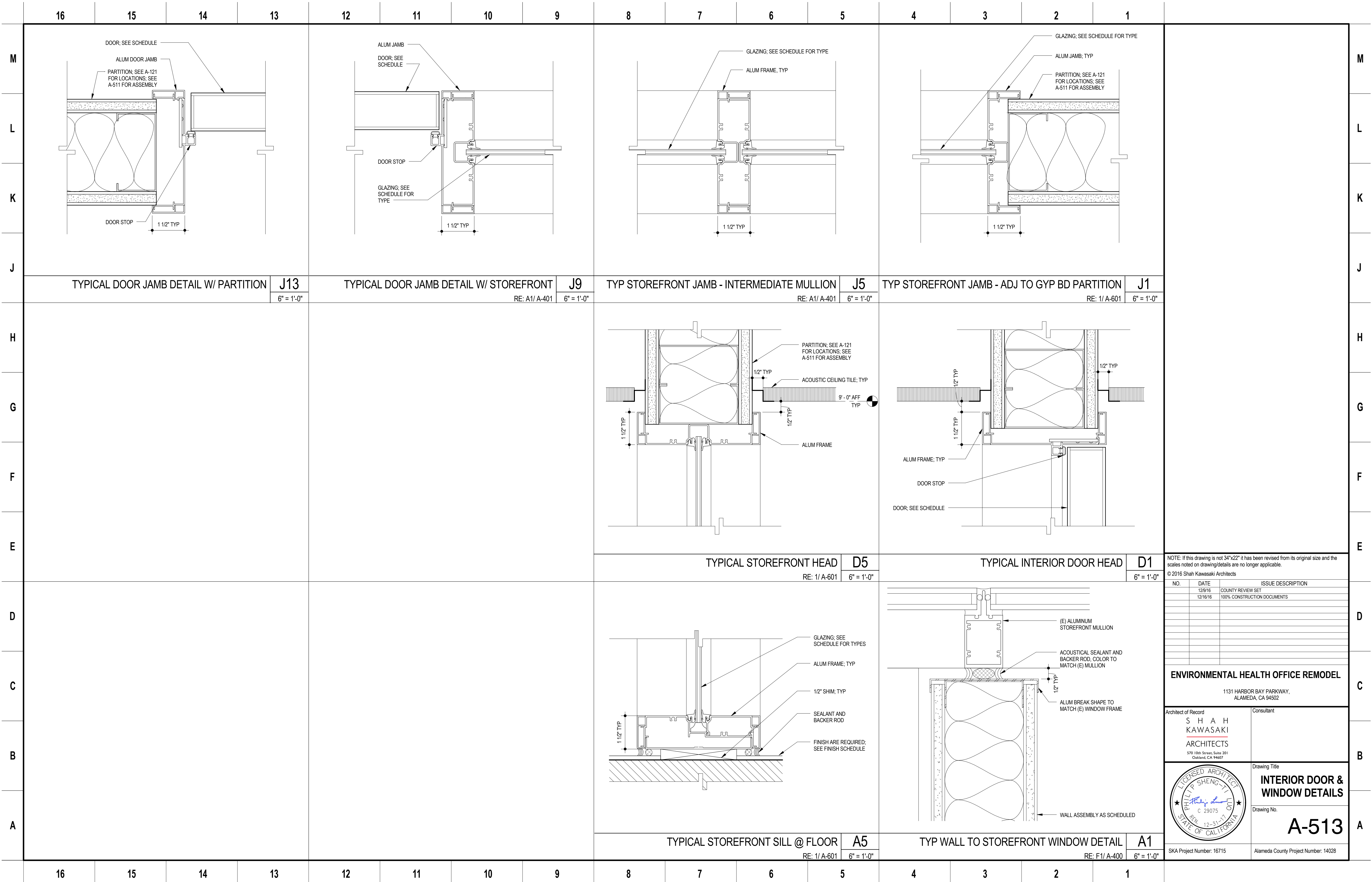
Drawing Title
ENLARGED RCP

Drawing No.
A-403

SKA Project Number: 16715
Alameda County Project Number: 14028

ENLARGED CONFERENCE ROOM + MDF RCP
RE: 1/ A-131
1/4" = 1'-0"

A1



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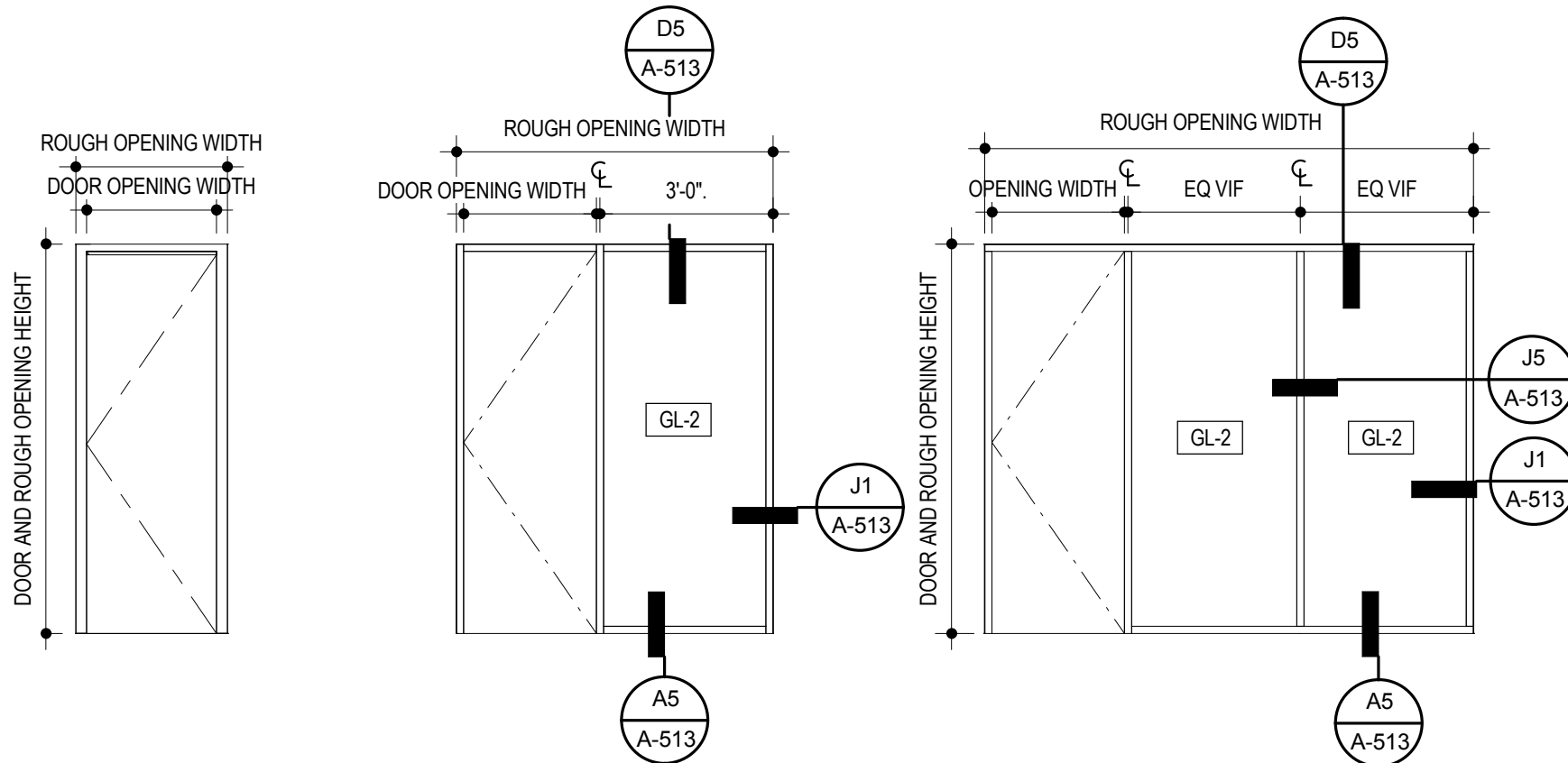
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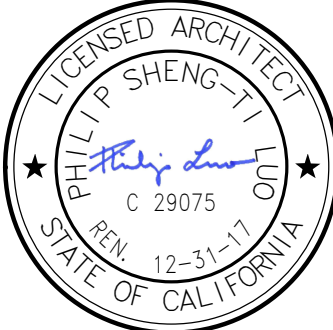
ENVIRONMENTAL HEALTH OFFICE REMODEL
1131 HARBOR BAY PARKWAY,
ALAMEDA, CA 94602

Architect of Record	Consultant
SHAH KAWASAKI ARCHITECTS 570 10th Street, Suite 301 Oakland, CA 94607	

	Drawing Title INTERIOR DOOR & WINDOW DETAILS Drawing No. A-513
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SKA Project Number: 16715	Alameda County Project Number: 14028
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	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1																																																																																																																																																																						
M	<table><tr><th colspan="15">DOOR AND WINDOW SCHEDULE</th></tr><tr><th rowspan="2">DOOR NO.</th><th rowspan="2">TYPE</th><th colspan="2">DOOR OPENING</th><th colspan="3">DOOR</th><th rowspan="2">FIRE RATING</th><th rowspan="2">HARDWARE GROUP</th><th rowspan="2">DOOR ACCESS CONTROL</th><th rowspan="2">ROUGH OPENING WIDTH</th><th rowspan="2">ROUGH OPENING HEIGHT</th><th rowspan="2">FRAME</th><th colspan="2">DETAILS</th><th rowspan="2">REMARK</th></tr><tr><th>WIDTH</th><th>HEIGHT</th><th>THICK</th><th>MAT'L</th><th>FINISH</th><th>HEAD</th><th>JAMB</th></tr><tr><td>214C</td><td>B</td><td>3'-0"</td><td>8'-10"</td><td>1 3/4"</td><td>WD</td><td>VENEER</td><td>-</td><td>2</td><td>-</td><td>6'-4"</td><td>9'-0"</td><td>ALUM</td><td>D1/A-513</td><td>J13 & J9/A-513</td><td rowspan="3">VERIFY DIMENSIONS OF ROUGH OPENING WIDTH IN THE FIELD, OPENING MUST CLEAR (E) CASEWORK IN ROOM 233</td></tr><tr><td>233B</td><td>NA</td><td>3'-0"</td><td>8'-10"</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>3'-6"</td><td>9'-0"</td><td>ALUM</td><td>D1/A-513 SIM</td><td>J13/A-513 SIM</td></tr><tr><td>234A</td><td>B</td><td>3'-0"</td><td>8'-10"</td><td>1 3/4"</td><td>WD</td><td>VENEER</td><td>-</td><td>2</td><td>-</td><td>6'-4"</td><td>9'-0"</td><td>ALUM</td><td>D1/A-513</td><td>J13 & J9/A-513</td></tr><tr><td>234B</td><td>B</td><td>3'-0"</td><td>8'-10"</td><td>1 3/4"</td><td>WD</td><td>VENEER</td><td>-</td><td>2</td><td>-</td><td>6'-4"</td><td>9'-0"</td><td>ALUM</td><td>D1/A-513</td><td>J13 & J9/A-513</td><td></td></tr><tr><td>234C</td><td>B</td><td>3'-0"</td><td>8'-10"</td><td>1 3/4"</td><td>WD</td><td>VENEER</td><td>-</td><td>1</td><td>-</td><td>6'-4"</td><td>9'-0"</td><td>ALUM</td><td>D1/A-513</td><td>J13 & J9/A-513</td><td></td></tr><tr><td>248A</td><td>C</td><td>3'-0"</td><td>8'-10"</td><td>1 3/4"</td><td>ALUM/GL</td><td>MATCH (E)</td><td>-</td><td>2</td><td>-</td><td>23'-6 1/2"</td><td>9'-0"</td><td>ALUM</td><td>D1/A-513</td><td>J13 & J9/A-513</td><td></td></tr><tr><td>248B</td><td>C</td><td>3'-0"</td><td>8'-10"</td><td>1 3/4"</td><td>ALUM/GL</td><td>MATCH (E)</td><td>-</td><td>2</td><td>-</td><td>23'-6 1/2"</td><td>9'-0"</td><td>ALUM</td><td>D1/A-513</td><td>J13 & J9/A-513</td><td></td></tr><tr><td>253B</td><td>A</td><td>3'-0"</td><td>8'-10"</td><td>1 3/4"</td><td>WD</td><td>VENEER</td><td>-</td><td>1</td><td>-</td><td>3'-6"</td><td>9'-0"</td><td>ALUM</td><td>D1/A-513</td><td>J13/A-513</td><td></td></tr></table>																DOOR AND WINDOW SCHEDULE															DOOR NO.	TYPE	DOOR OPENING		DOOR			FIRE RATING	HARDWARE GROUP	DOOR ACCESS CONTROL	ROUGH OPENING WIDTH	ROUGH OPENING HEIGHT	FRAME	DETAILS		REMARK	WIDTH	HEIGHT	THICK	MAT'L	FINISH	HEAD	JAMB	214C	B	3'-0"	8'-10"	1 3/4"	WD	VENEER	-	2	-	6'-4"	9'-0"	ALUM	D1/A-513	J13 & J9/A-513	VERIFY DIMENSIONS OF ROUGH OPENING WIDTH IN THE FIELD, OPENING MUST CLEAR (E) CASEWORK IN ROOM 233	233B	NA	3'-0"	8'-10"	-	-	-	-	-	-	3'-6"	9'-0"	ALUM	D1/A-513 SIM	J13/A-513 SIM	234A	B	3'-0"	8'-10"	1 3/4"	WD	VENEER	-	2	-	6'-4"	9'-0"	ALUM	D1/A-513	J13 & J9/A-513	234B	B	3'-0"	8'-10"	1 3/4"	WD	VENEER	-	2	-	6'-4"	9'-0"	ALUM	D1/A-513	J13 & J9/A-513		234C	B	3'-0"	8'-10"	1 3/4"	WD	VENEER	-	1	-	6'-4"	9'-0"	ALUM	D1/A-513	J13 & J9/A-513		248A	C	3'-0"	8'-10"	1 3/4"	ALUM/GL	MATCH (E)	-	2	-	23'-6 1/2"	9'-0"	ALUM	D1/A-513	J13 & J9/A-513		248B	C	3'-0"	8'-10"	1 3/4"	ALUM/GL	MATCH (E)	-	2	-	23'-6 1/2"	9'-0"	ALUM	D1/A-513	J13 & J9/A-513		253B	A	3'-0"	8'-10"	1 3/4"	WD	VENEER	-	1	-	3'-6"	9'-0"	ALUM	D1/A-513	J13/A-513		<p>DOOR HARDWARE GROUPS</p> <p>GROUP 1 STOREROOM LOCK INSIDE: LEVER ALWAYS UNLOCKED OUTSIDE: LEVER UNLOCKED BY KEY</p> <p>GROUP 2 PASSAGE LATCH INSIDE: LEVER ALWAYS UNLOCKED OUTSIDE: LEVER ALWAYS UNLOCKED</p>	
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ENVIRONMENTAL HEALTH OFFICE REMODEL		
1131 HARBOR BAY PARKWAY, ALAMEDA, CA 94602		
Architect of Record S H A H KAWASAKI ARCHITECTS 570 16th Street, Suite 301 Oakland, CA 94607	Consultant	
	Drawing Title DOOR, WINDOW AND FINISH SCHEDULES A-601	
	Drawing No.	
SKA Project Number: 16715		Alameda County Project Number: 14028

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	12/9/16	COUNTY REVIEW SET
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ENVIRONMENTAL HEALTH OFFICE REMODEL

1131 HARBOR BAY PARKWAY,
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PHILIP SHENG-TI
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REL. 12-31-17
STATE OF CALIFORNIA

Drawing Title
DOOR, WINDOW AND FINISH SCHEDULES
Drawing No.
A-601

SKA Project Number: 16715
Alameda County Project Number: 14028

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FAN COIL UNIT SCHEDULE

SYMBOL	AREA SERVED	BASIS OF DESIGN		ASSOC CU	FAN		DX COOLING COIL					ELECTRICAL			APPROX. DIMS (LxWxH)	MAX WT (LBS)	NOTES
		MFR	MODEL		TOTAL CFM	NOM TONS	TOTAL CAP (MBH)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	VOLTS	PH	MCA			
FC-1	MDF 253B	LG	LSN240HLV	CU-1	700	2	24	75	65	55	55	NA	NA	NA	47"x14"x11"	50	1-6
NOTES: 1 INDOOR UNIT POWERED BY SINGLE POINT ELECTRICAL CONNECTION TO CU-1 2 REFRIGERANT PIPING TO CONFROM WITH MANUFACTURER'S RECOMMENDATIONS AND GUIDELINES 3 PROVIDE WITH FIELD INSTALLED GOBI CONDENSATE PUMP (ELECTRICAL 115 VOLTS). ROUTE PIPING TO NEAREST PLUMBING FIXTURE. COORDINATE LOCATION WITH EXISTING DRAIN FROM EXISTING MDF ROOM. DO NOT ROUTE OVER ELECTRICAL PANELS OR EQUIPMENT. 4 COORDINATE EXACT LOCATION WITH ARCHITECT AND EQUIPMENT IN ROOM. 5 PROVIDE WITH PROGRAMMABLE WIRED REMOTE CONTROLLER 6 PROVIDE BACNET INTERFACE FOR FUTURE CONNECTION TO BMS																	

CONDENSING UNIT SCHEDULE

SYMBOL	AREA SERVED	BASIS OF DESIGN		ASSOC FAN	AIR SOURCE CONDENSER					ELECTRICAL				APPROX. DIMS (LxWxH)	MAX WT (LBS)	NOTES
		MFR	MODEL		NOM TONS	CAP (MBH)	AMBIENT DB (°F)	REFRIG.	EER	VOLTS	PH	MCA	MOCP			
CU-1	MDF 253B	LG	LSU240HLV	FC-1	2	24	88	R-410A	12.5	208	1	23	35	35"x13"x32"	150	1-5
NOTES: 1 OUTDOOR UNIT TO POWER CORRESPONDING INDOOR UNIT (FC-1) 2 DISCONNECT BY DIV. 26 3 PROVIDE WITH VARIABLE SPEED COMPRESSOR 4 PROVIDE WITH LOW AMBIANT CONTROLS TO PROVIDE FULL COOLING AT 20 DEG. F 5 PROVIDE BACNET INTERFACE FOR FUTURE CONNECTION TO BMS																

FAN COIL UNIT SCHEDULE (VRF ALTERNATE)

SYMBOL	AREA SERVED	BASIS OF DESIGN		ASSOC CU	FAN		DX COOLING COIL					ELECTRICAL			APPROX. DIMS (LxWxH)	MAX WT (LBS)	NOTES
		MFR	MODEL		TOTAL CFM	NOM TONS	TOTAL CAP (MBH)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	VOLTS	PH	MCA			
FC-1	(N) MDF ROOM	LG	ARNU243SCL4	CU-2	494	2	24	75	65	55	55	208	1	0.3	41"x10"x13"	40	1-6
FC-2	(E) MDF ROOM	LG	ARNU243SCL4	CU-2	494	2	24	75	65	55	55	208	1	0.3	41"x10"x13"	40	1-6
NOTES: 1 ADD ALTERNATE: PROVIDE 2 NEW VRF FAN COIL UNITS TO BE PAIRED WITH A SINGLE CU-1 (SEE VRF ALTERNATE SCHEDULE). VRF FAN COIL UNITS AND CONDENSING UNIT REQUIRE SEPARATE ELECTRICAL CONNECTIONS. COORDINATE WITH DIV. 26. 2 REFRIGERANT PIPING TO CONFROM WITH MANUFACTURER'S RECOMMENDATIONS AND GUIDELINES 3 PROVIDE WITH FIELD INSTALLED GOBI CONDENSATE PUMP (ELECTRICAL 115 VOLTS). ROUTE PIPING TO NEAREST PLUMBING FIXTURE. COORDINATE LOCATION WITH EXISTING DRAIN FROM EXISTING MDF ROOM. DO NOT ROUTE OVER ELECTRICAL PANELS OR EQUIPMENT. 4 COORDINATE EXACT LOCATION WITH ARCHITECT AND EQUIPMENT IN ROOM. 5 PROVIDE WITH PROGRAMMABLE WIRED REMOTE CONTROLLER 6 PROVIDE BACNET INTERFACE FOR FUTURE CONNECTION TO BMS																	

CONDENSING UNIT SCHEDULE (VRF ALTERNATE)

SYMBOL	AREA SERVED	BASIS OF DESIGN		ASSOC FAN	AIR SOURCE CONDENSER					ELECTRICAL				APPROX. DIMS (LxWxH)	MAX WT (LBS)	NOTES
		MFR	MODEL		NOM TONS	CAP (MBH)	AMBIENT DB (°F)	REFRIG.	EER	VOLTS	PH	MCA	MOCP			
CU-1	MDF ROOMS	LG	ARNU048GSS4	FC-2	4	48	88	R-410A	NA	208	1	30	50	37"x13"x55"	225	1-5
NOTES: 1 ADD ALTERNATE: PROVIDE NEW VRF CONDENSING UNIT TO BE PAIRED WITH (2) NEW FAN COIL UNITS IN EACH MDF ROOM. INDOOR UNITS REQUIRE INDIVIDUAL ELECTRICAL CONNECTIONS. COORDINATE WITH DIV. 26. 2 DISCONNECT BY DIV. 26 3 PROVIDE WITH VARIABLE SPEED COMPRESSOR 4 PROVIDE WITH LOW AMBIANT CONTROLS TO PROVIDE FULL COOLING AT 20 DEG. F 5 PROVIDE BACNET INTERFACE FOR FUTURE CONNECTION TO BMS.																

DIFFUSER, REGISTER AND GRILLE SCHEDULE

SYMBOL	TYPE	FACE	FRAME	DAMPER	FINISH	BASIS OF DESIGN	REMARKS
CD-1	CEILING DIFFUSER	PERFORATED	LAY-IN	NONE	WHITE	TITUS PCS	1-3
CRG-1	CEILING RETURN GRILLE	PERFORATED	LAY-IN	NONE	WHITE	TITUS PAR	1-3
NOTES: 1 COORDINATE EXACT LOCATION WITH LIGHTS, SPRINKLER HEADS, AND ARCH. RCP. 2 USE BORDER TYPE 2 FOR SURFACE MOUNT IN HARD CEILING. 3 SEE FLOOR PLANS FOR NECK AND GRILLE SIZES. BRANCH DUCTWORK TO MATCH INLET SIZE SHOWN.							

TERMINAL UNIT SCHEDULE (EXISTING)

SYMBOL	AREA SERVED	COLD SIDE		HOT SIDE		NOTES
		INLET SIZE (IN)	AIRFLOW	INLET SIZE (IN)	AIRFLOW	
			MAX CFM		MAX CFM	
VAV-205	OFFICES	8	655	8	100	1,2
VAV-222	CONFERENCE	8	670	8	200	1,2
VAV-231	OFFICES	8	620	6	450	1,2
NOTES: 1 EXISTING DUAL DUCT VAV BOX. AIRFLOWS SHOWN ARE FROM AS-BUILD DOCUMENTS. FIELD VERIFY SIZES AND NOTIFY ENGINEER OF ANY DISCREPANCY. REBALANCE AS NECESSARY TO PROVIDE AIRFLOWS SHOWN ON PLANS. 2 RETAIN EXISTING MINIMUM AIRFLOWS.						

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Date Signed: 12/19/16

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Drawing Title

**SCHEDULES -
MECHANICAL**

Drawing No.

M-002

SKA Project Number: 16715

Alameda County Project Number: 14028

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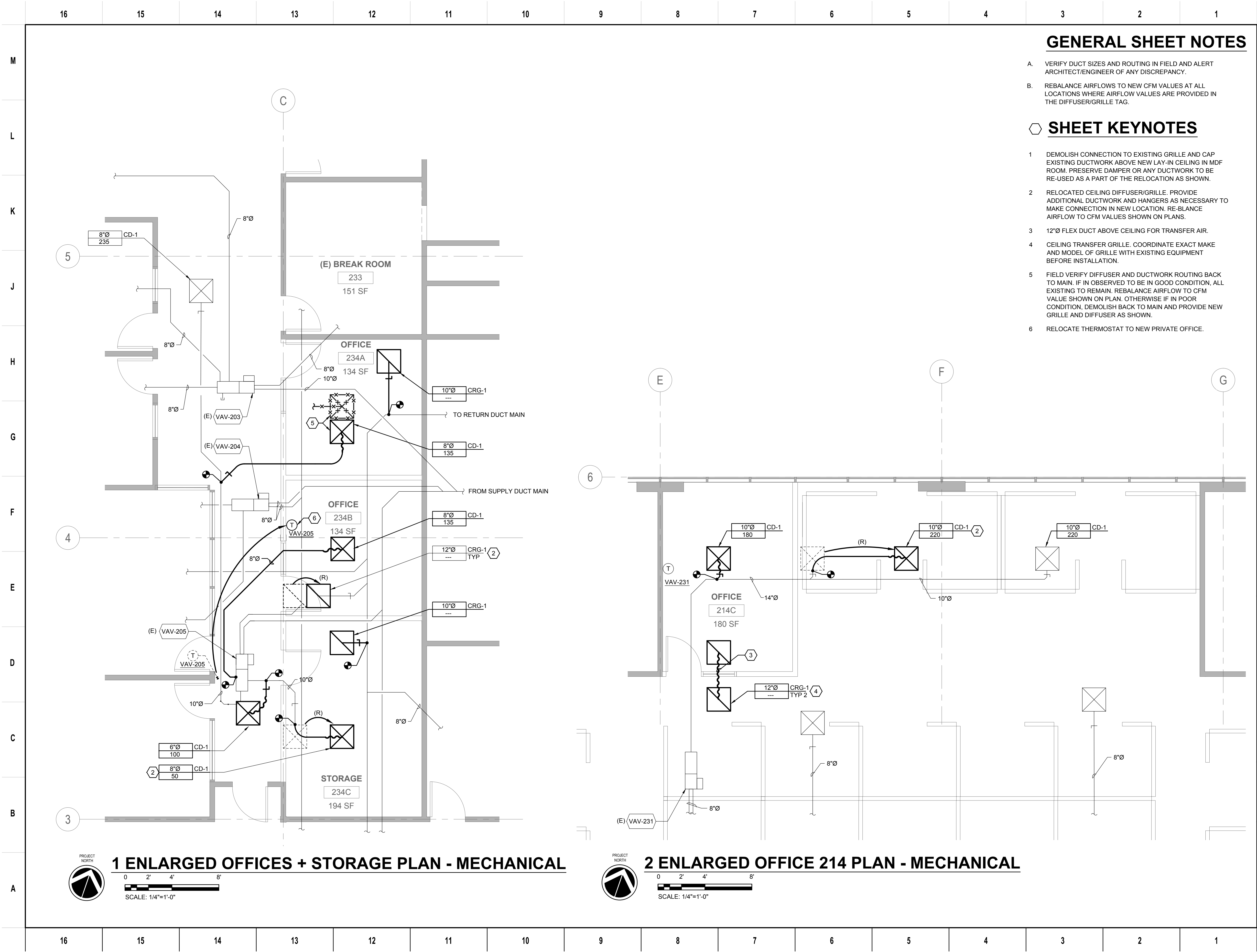
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GENERAL SHEET NOTES

- A. VERIFY DUCT SIZES AND ROUTING IN FIELD AND ALERT ARCHITECT/ENGINEER OF ANY DISCREPANCY.
- B. REBALANCE AIRFLOWS TO NEW CFM VALUES AT ALL LOCATIONS WHERE AIRFLOW VALUES ARE PROVIDED IN THE DIFFUSER/GRILLE TAG.

SHEET KEYNOTES

- 1 DEMOLISH CONNECTION TO EXISTING GRILLE AND CAP EXISTING DUCTWORK ABOVE NEW LAY-IN CEILING IN MDF ROOM. PRESERVE DAMPER OR ANY DUCTWORK TO BE RE-USED AS A PART OF THE RELOCATION AS SHOWN.
- 2 RELOCATED CEILING DIFFUSER/GRILLE. PROVIDE ADDITIONAL DUCTWORK AND HANGERS AS NECESSARY TO MAKE CONNECTION IN NEW LOCATION. RE-BLANCE AIRFLOW TO CFM VALUES SHOWN ON PLANS.
- 3 12"Ø FLEX DUCT ABOVE CEILING FOR TRANSFER AIR.
- 4 CEILING TRANSFER GRILLE. COORDINATE EXACT MAKE AND MODEL OF GRILLE WITH EXISTING EQUIPMENT BEFORE INSTALLATION.
- 5 FIELD VERIFY DIFFUSER AND DUCTWORK ROUTING BACK TO MAIN. IF IN OBSERVED TO BE IN GOOD CONDITION, ALL EXISTING TO REMAIN. REBALANCE AIRFLOW TO CFM VALUE SHOWN ON PLAN. OTHERWISE IF IN POOR CONDITION, DEMOLISH BACK TO MAIN AND PROVIDE NEW GRILLE AND DIFFUSER AS SHOWN.
- 6 RELOCATE THERMOSTAT TO NEW PRIVATE OFFICE.

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ENVIRONMENTAL HEALTH OFFICE REMODEL

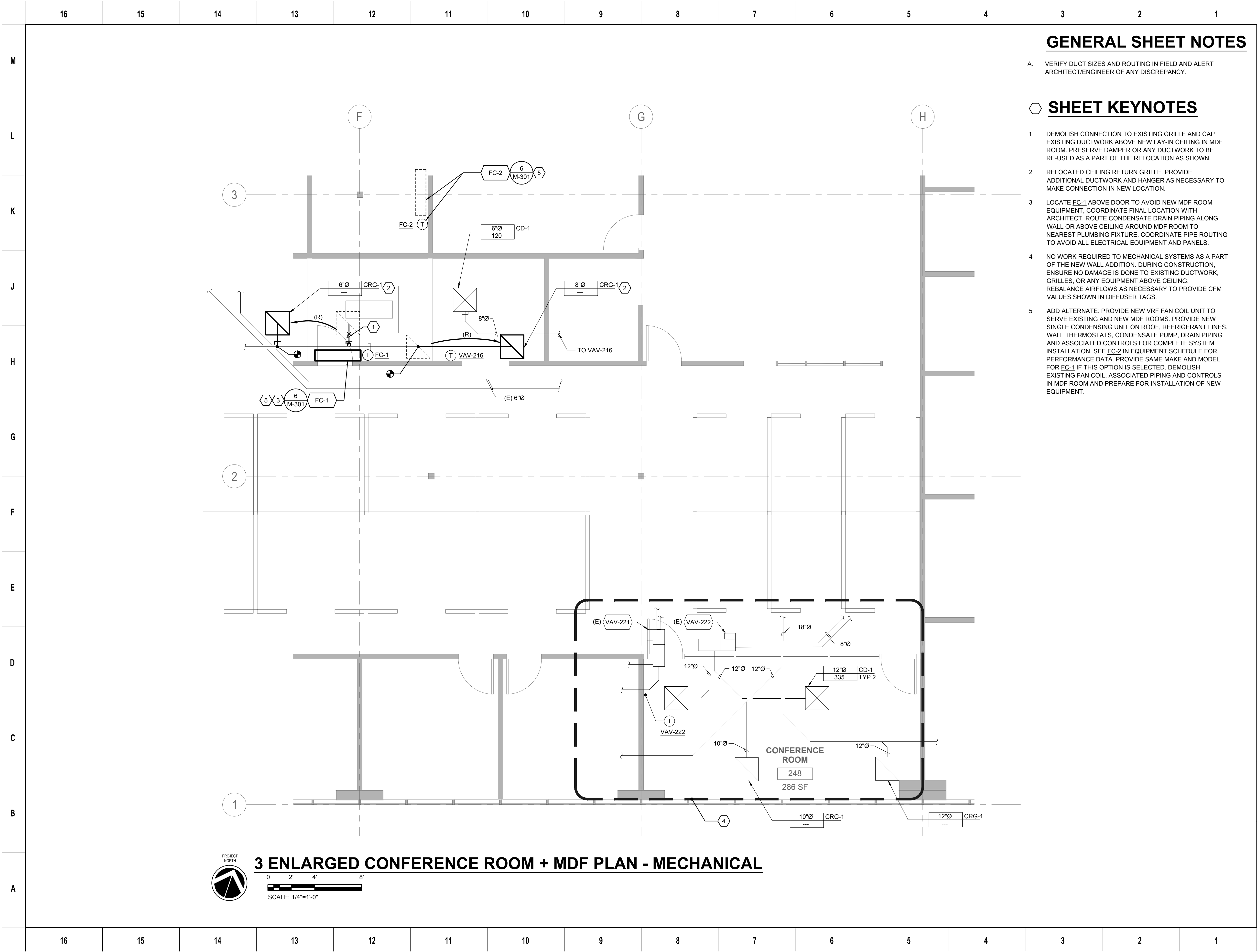
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Drawing Title
ENLARGED PLANS -
OFFICES -
MECHANICAL
Drawing No.
M-201

SKA Project Number: 16715
Alameda County Project Number: 14028



GENERAL SHEET NOTES

- A. VERIFY DUCT SIZES AND ROUTING IN FIELD AND ALERT ARCHITECT/ENGINEER OF ANY DISCREPANCY.

SHEET KEYNOTES

- 1 DEMOLISH CONNECTION TO EXISTING GRILLE AND CAP EXISTING DUCTWORK ABOVE NEW LAY-IN CEILING IN MDF ROOM. PRESERVE DAMPER OR ANY DUCTWORK TO BE RE-USED AS A PART OF THE RELOCATION AS SHOWN.
- 2 RELOCATED CEILING RETURN GRILLE. PROVIDE ADDITIONAL DUCTWORK AND HANGER AS NECESSARY TO MAKE CONNECTION IN NEW LOCATION.
- 3 LOCATE FC-1 ABOVE DOOR TO AVOID NEW MDF ROOM EQUIPMENT, COORDINATE FINAL LOCATION WITH ARCHITECT. ROUTE CONDENSATE DRAIN PIPING ALONG WALL OR ABOVE CEILING AROUND MDF ROOM TO NEAREST PLUMBING FIXTURE. COORDINATE PIPE ROUTING TO AVOID ALL ELECTRICAL EQUIPMENT AND PANELS.
- 4 NO WORK REQUIRED TO MECHANICAL SYSTEMS AS A PART OF THE NEW WALL ADDITION. DURING CONSTRUCTION, ENSURE NO DAMAGE IS DONE TO EXISTING DUCTWORK, GRILLES, OR ANY EQUIPMENT ABOVE CEILING. REBALANCE AIRFLOWS AS NECESSARY TO PROVIDE CFM VALUES SHOWN IN DIFFUSER TAGS.
- 5 ADD ALTERNATE: PROVIDE NEW VRF FAN COIL UNIT TO SERVE EXISTING AND NEW MDF ROOMS. PROVIDE NEW SINGLE CONDENSING UNIT ON ROOF, REFRIGERANT LINES, WALL THERMOSTATS, CONDENSATE PUMP, DRAIN PIPING AND ASSOCIATED CONTROLS FOR COMPLETE SYSTEM INSTALLATION. SEE FC-2 IN EQUIPMENT SCHEDULE FOR PERFORMANCE DATA. PROVIDE SAME MAKE AND MODEL FOR FC-1 IF THIS OPTION IS SELECTED. DEMOLISH EXISTING FAN COIL, ASSOCIATED PIPING AND CONTROLS IN MDF ROOM AND PREPARE FOR INSTALLATION OF NEW EQUIPMENT.

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Drawing Title
**ENLARGED PLANS -
CONF. & MDF ROOM
MECHANICAL**

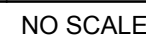
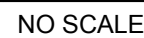
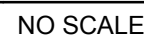
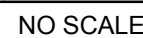
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M-202

SKA Project Number: 16715

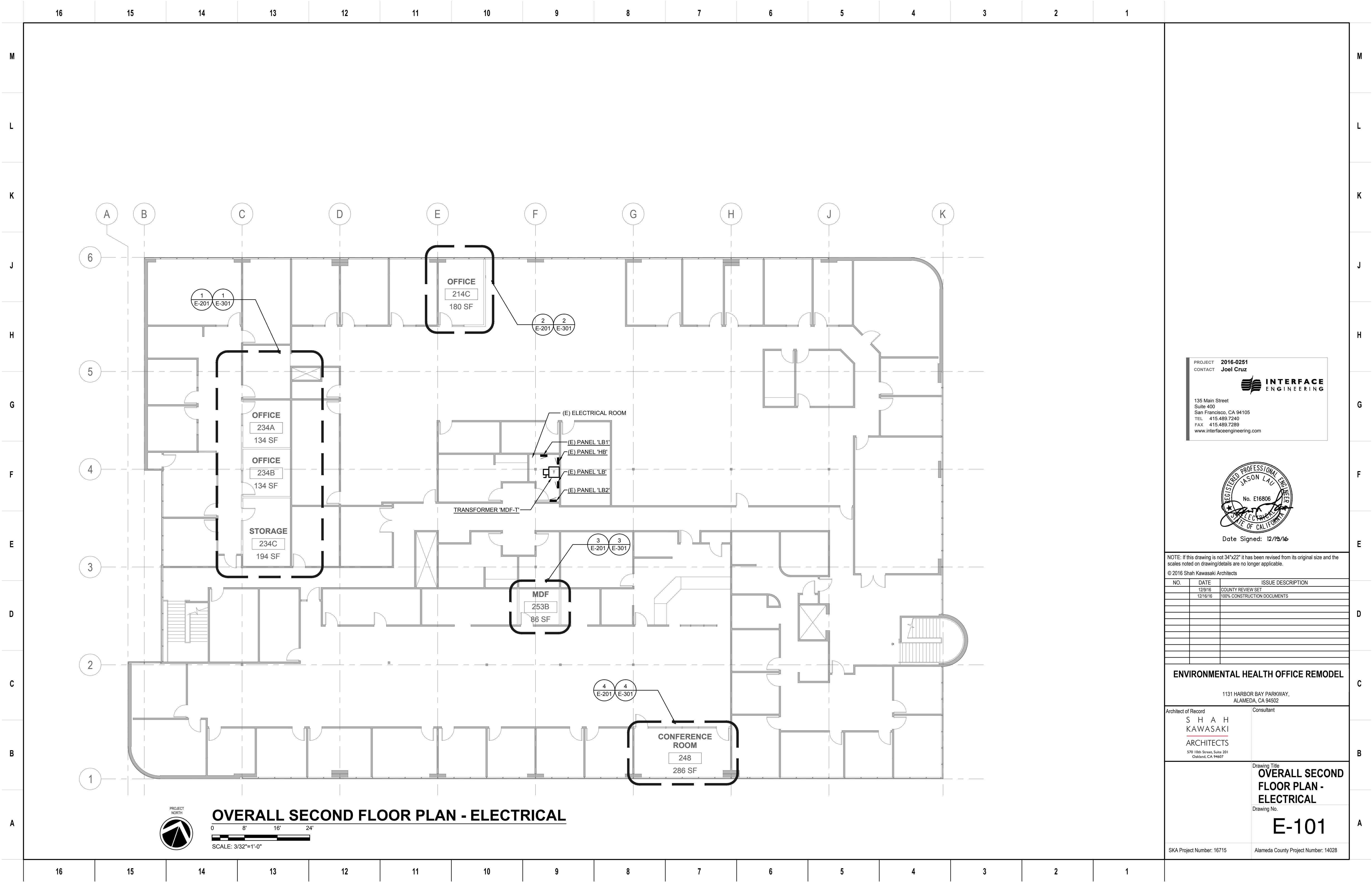
Alameda County Project Number: 14028

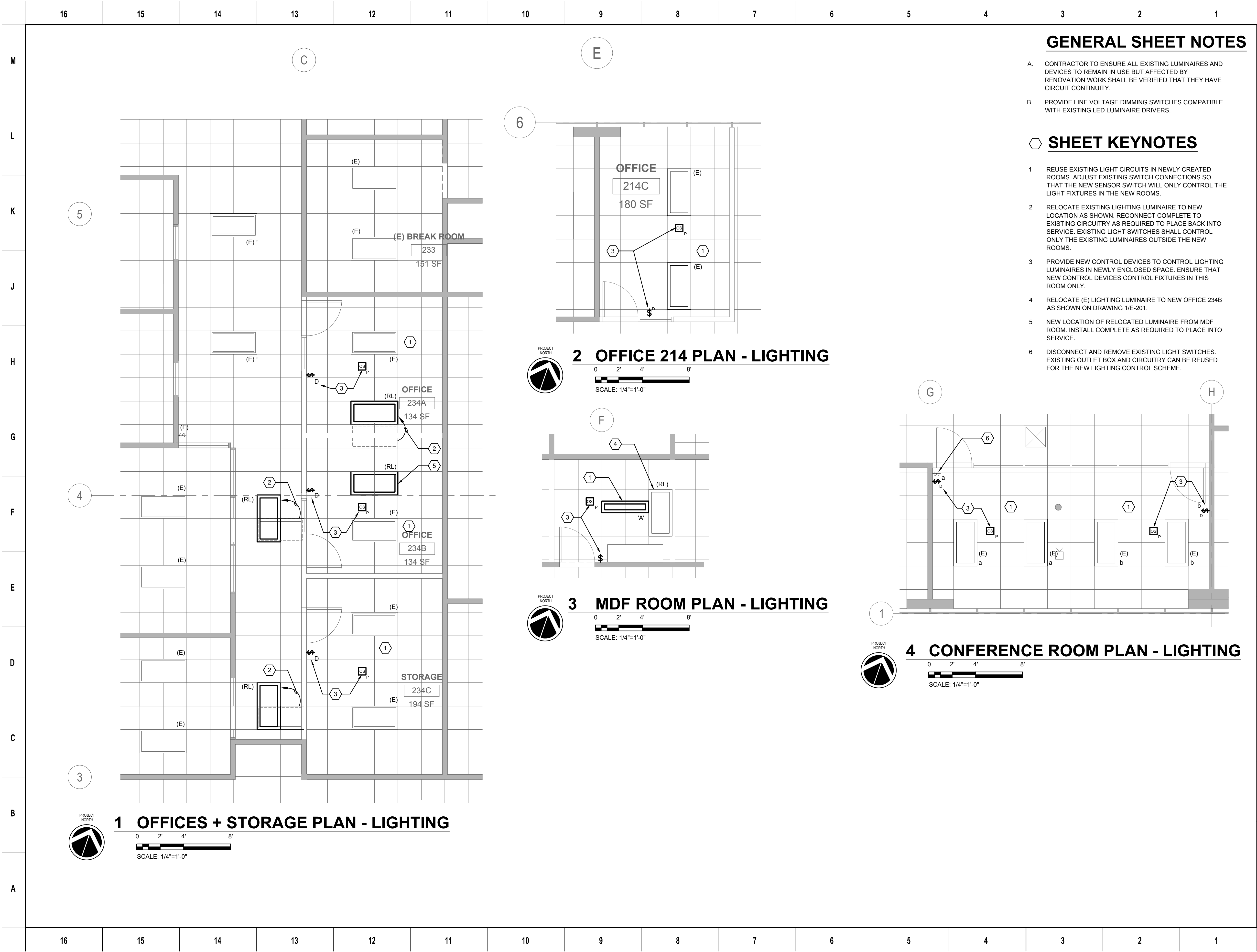




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	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1																																				
M	<div>ELECTRICAL SYMBOL LIST</div>																M																																			
L	<div>NOTE: This is a standard symbol list and not all items listed may be used.</div>																L																																			
K	<div><div><div>Abbreviations</div><div><div>(E)</div><div>EXISTING</div></div><div><div>(RL)</div><div>RELOCATE</div></div><div><div>A</div><div>AMPERES, AMBER</div></div><div><div>DTL</div><div>DETAIL</div></div><div><div>G, GND</div><div>GROUND</div></div><div><div>KV</div><div>KILOVOLT</div></div><div><div>KVA</div><div>KILOVOLT AMPERES</div></div><div><div>KW</div><div>KILOWATT</div></div><div><div>LED</div><div>LIGHT EMITTING DIODE</div></div><div><div>NEC</div><div>NATIONAL ELECTRIC CODE</div></div><div><div>TYP</div><div>TYPICAL</div></div><div><div>UON</div><div>UNLESS OTHERWISE NOTED</div></div></div><div><div>Connections / Equipment</div><div><div><div></div><div>HEAVY DUTY FUSED DISCONNECT SWITCH</div></div><div><div><div>⌋</div><div>OR</div><div>⌋</div></div><div>JUNCTION BOX</div></div><div><div><div>⌋</div><div></div></div><div>WALL-MOUNTED JUNCTION BOX</div></div><div><div><div>⊗</div><div></div></div><div>MOTOR STARTER</div></div><div><div><div></div><div></div></div><div>NON-FUSED DISCONNECT SWITCH</div></div></div><div><div>General</div><div><div><div></div><div>EXISTING WORK</div></div><div><div><div></div><div>NEW WORK</div></div><div><div><div><div><div>X</div><div>X</div></div></div><div>DETAIL NUMBER AND SHEET LOCATION</div></div><div><div><div>XX-X</div><div>LOCATION</div></div><div>EQUIPMENT IDENTIFICATION</div></div><div><div><div>1</div><div></div></div><div>KEYED NOTE</div></div></div></div><div><div>Lighting</div><div><div><div></div><div>RECESSED 1' X 4' LUMINAIRE</div></div><div><div></div><div>RECESSED 2' X 4' LUMINAIRE</div></div></div><div><div>Miscellaneous</div><div><div><div><div>#10</div><div></div></div><div>B-27,29,31.</div><div>BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.</div></div><div><div><div></div><div></div></div><div>BRANCH PANEL</div></div></div><div><div>Raceways</div><div><div><div></div><div>CONDUIT/WIRING CONTINUATION</div></div><div><div><div></div><div></div></div><div>CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING</div></div><div><div><div></div><div></div></div><div>SURFACE RACEWAY</div></div></div></div><div><div>Switches and Receptacles</div><div><div><div></div><div>DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS)</div><div>A = ABOVE COUNTER B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH R1 = HALF SWITCHED BY OCCUPANCY SENSOR RELAY R2 = FULLY SWITCHED BY OCCUPANCY SENSOR RELAY S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE U = USB PORT(S) W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE</div></div><div><div><div></div><div>DOUBLE DUPLEX RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS</div></div><div><div><div></div><div>EQUIPMENT ELECTRICAL CONNECTION</div></div><div><div><div></div><div>SPECIAL PURPOSE RECEPTACLE. LETTER CODE DENOTES RECEPTACLE CONFIGURATION</div><div>LX-XXR = NEMA CONFIGURATION TWIST-LOCK RECEPTACLE X-XXR = NEMA CONFIGURATION STRAIGHT BLADE RECEPTACLE P = PENDANT MOUNT WITH CORD GRIPS. VERIFY PENDANT LENGTH X = COORDINATE RECEPTACLE CONFIGURATION WITH EQUIPMENT BEING SUPPLIED</div></div><div><div><div></div><div>CEILING MOUNTED OCCUPANCY SENSOR</div><div>P = PASSIVE INFRARED D = DUAL TECHNOLOGY U = ULTRASONIC, 360 DEG RANGE H = ULTRASONIC, HALLWAY PATTERN v (LOWERCASE) = VACANCY CONTROL DESIGNATION</div></div><div><div><div>\$</div><div>SINGLE POLE SWITCH</div><div>2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION D = DIMMER F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH</div></div></div></div><div><div>Telecommunications</div><div><div><div></div><div>RACEWAY ONLY DATA OUTLET. PROVIDE DOUBLE GANG BACK BOX AND SINGLE GANG ADAPTER PLATE WITH 1" C. AND PULLSTRING TO ACCESSIBLE CEILING SPACE. SEE LETTER CODE LIST AT DATA/TELEPHONE OUTLET FOR OPTIONS.</div></div><div><div><div></div><div>RACEWAY ONLY DATA/TELEPHONE OUTLET. PROVIDE DOUBLE GANG BACK BOX AND SINGLE GANG ADAPTER PLATE WITH 1" C. AND PULLSTRING TO ACCESSIBLE CEILING SPACE. (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS)</div><div>A = ABOVE COUNTER C = CEILING MOUNTED ABOVE ACCESSIBLE CEILING F = FLUSH CEILING MOUNTED R = SURFACE MOUNTED ON RACEWAY</div></div></div></div></div><div><div>GENERAL ELECTRICAL NOTES</div><div><div>A. DO NOT COMMENCE INSTALLATION OF ELECTRICAL SYSTEMS AND EQUIPMENT WITHOUT RELATED SHOP DRAWING APPROVALS.</div><div>B. ELECTRICAL CIRCUITS SHALL BE INTERRUPTED ONLY WITH PRIOR WRITTEN CONSENT. SUCH INTERRUPTIONS SHALL BE PRECEDED BY ALL POSSIBLE PREPARATIONS BY THE CONTRACTOR WHICH ARE NECESSARY TO KEEP THE ELECTRICAL CIRCUITS OFF FOR A MINIMUM PERIOD IN AN EXPEDITIOUS MANNER PURSUANT WITH GOOD WORKMANSHIP. THIS INCLUDES CIRCUIT TRACING TO IDENTIFY THE ELECTRICAL LOAD BEING SERVED AND THE ORIGIN OF THE CIRCUIT.</div><div>C. PROVIDE TEMPORARY SUPPORT FOR ELECTRICAL SYSTEMS THAT REMAIN IN PLACE.</div><div>D. PROVIDE BLANK COVER PLATE FOR ABANDONED FLUSH OUTLETS.</div><div>E. WHERE DRAWINGS INDICATE EXISTING ELECTRICAL EQUIPMENT OR DEVICES TO BE RELOCATED AND/OR REUSED, REFURBISH THEM. THOROUGHLY CLEAN SUCH ITEMS. NOTIFY ARCHITECT OF ANY DEFECTS IN SUCH INSTALLATIONS. REPAIR ANY DAMAGE CAUSED BY DEMOLITION OR CONSTRUCTION PERFORMED UNDER THIS CONTRACT.</div><div>F. OFFER REMOVED LUMINAIRES, WIRING DEVICES, PANELBOARDS AND EQUIPMENT TO THE OWNER. IF OWNER CHOOSES TO RETAIN THESE ITEMS, RETURN SUCH ITEMS TO OWNER. CAREFULLY REMOVE AND DISPOSE OF ITEMS REJECTED BY OWNER FROM PROJECT SITE AND IN A LEGAL MANNER.</div><div>G. RECONNECT EXISTING LUMINAIRES NOT SHOWN ON DRAWINGS AND AFFECTED DUE TO DEMOLITION TO NEAREST AVAILABLE EXISTING LIGHTING CIRCUIT ABLE TO TAKE THE ADDITIONAL LOAD.</div><div>H. PROVIDE SUITABLE ANCHORAGE AND SUPPORT FOR ELECTRICAL EQUIPMENT IN RATED WALLS, SLABS AND CEILINGS. MOUNT DEVICES AND RACEWAYS IN ACCORDANCE WITH ESTABLISHED CODES AND SPECIFICATIONS.</div><div>I. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.</div><div>J. DRAWINGS AND SPECIFICATIONS COMPLIMENT EACH OTHER. REQUIREMENT BY EITHER INFERS REQUIREMENT BY BOTH.</div><div>K. CONNECT EQUIPMENT AND DEVICES FURNISHED UNDER OTHER DIVISIONS OF THIS CONTRACT, BY OWNER OR BY OTHER CONTRACTS.</div><div>L. UNLESS OTHERWISE NOTED, PROVIDE CONCEALED AND FLUSH MOUNTED INSTALLATION OF DEVICES AND EQUIPMENT IN AREAS.</div><div>M. PROVIDE SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN 120 VOLT, MULTI-WIRE CIRCUITS.</div><div>N. FOR 120 VOLT, 20 AMP CIRCUITS, WHERE CIRCUIT DISTANCE FROM PANELBOARD TO FARTHEST DEVICE/FIXTURE EXCEEDS 75 FEET, PROVIDE #10 SIZE CONDUCTOR.</div><div>O. RUN ELECTRICAL CONDUIT CONCEALED AND PARALLEL TO BUILDING LINES. VERIFY WITH ARCHITECT.</div><div>P. RECEPTACLE OUTLETS SHALL COMPLY WITH CEC SECTION 210.7.</div><div>Q. LIGHTS, SWITCHES AND CONTROL MECHANISMS SHALL COMPLY WITH CEC SECTION 404.</div><div>R. BRACE ELECTRICAL EQUIPMENT TO RESIST A HORIZONTAL FORCE THAT ACT IN ANY DIRECTION. COMPLY WITH TITLE 24 REQUIREMENTS.</div><div>S. INSTALL COMPLETE SYSTEM OF CONDUCTORS IN RACEWAY SYSTEM THROUGHOUT BUILDING FOR FEEDERS, BRANCH CIRCUITS, ETC.</div><div>T. ALL WORK ON SERVICE CONDUCTORS, FEEDERS, AND OTHER SUCH EQUIPMENT SHALL BE DONE ONLY WHEN SUCH CONDUCTORS, FEEDERS, AND EQUIPMENT ARE DE-ENERGIZED. THE CONTRACTOR SHALL HAVE AN "ELECTRICAL SAFETY AND LOCK-OUT/TAG-OUT PROCEDURE" IN PLACE PRIOR TO COMMENCEMENT OF WORK.</div><div>U. OCCUPANCY SENSOR NOTES:<div><div>1. WALL SENSORS<div>A. SENSOR MUST HAVE CLEAR "VIEW" OF OCCUPANTS. WHERE SENSOR WILL BE BLOCKED, SUBSTITUTE WITH SMALL-ROOM CEILING SENSOR.</div></div><div>2. SEE MANUFACTURER'S SPECIFICATION REGARDING PLACING SENSORS AWAY FROM STRONG AIR-FLOW. INDICATE PRECISE LOCATION OF EACH CEILING SENSOR WHERE DRAWINGS INDICATE AIR SUPPLIES.</div><div>3. IN INDIVIDUAL ROOMS WITH CEILING SENSORS AND DUAL-LEVEL LIGHTING, ASSUME TWO TOGGLE SWITCH OVERRIDES PER ROOM.</div><div>4. PRIOR TO INSTALLATION, RECEIVE FACTORY-TRAINING AND LAYOUT-ASSISTANCE. IF LOCAL AGENT CHANGES LIGHTING DRAWINGS, CONTACT FACTORY REPRESENTATIVE.</div></div></div><div>V. PROVIDE DEFERRED APPROVAL AND DESIGN BUILD FOR ANY REQUIRED MODIFICATION TO THE EXISTING FIRE ALARM SYSTEM. SUBMIT COMPLETE DRAWINGS TO THE FIRE MARSHAL FOR APPROVAL AND ASSUME FULL RESPONSIBILITY OF THE SYSTEM, DEVICE QUANTITY AND LOCATION, WIRING, PROGRAMMING AND CONTROL PANELS. COORDINATE FINAL DEVICE LOCATIONS WITH THE ARCHITECT PRIOR TO ROUGH-IN.</div></div></div><div><div><div><div>PROJECT CONTACT</div><div>2016-0251</div><div>Joel Cruz</div></div><div><div></div><div>INTERFACEENGINEERING</div></div><div><div>135 Main Street Suite 400 San Francisco, CA 94105 TEL 415.489.7240 FAX 415.489.7289 www.interfaceengineering.com</div></div></div><div><div><div>REGISTERED PROFESSIONAL ENGINEER</div><div>JASON LAU</div><div>No. E16806</div><div>ELECTRICAL</div><div>STATE OF CALIFORNIA</div></div><div>Date Signed: 12/19/16</div></div><div><div>NOTE: If this drawing is not 34"x22" it has been revised from its original size and the scales noted on drawing/details are no longer applicable.</div><div>© 2016 Shah Kawasaki Architects</div><div><table><tr><th>NO.</th><th>DATE</th><th>ISSUE DESCRIPTION</th></tr><tr><td></td><td>12/9/16</td><td>COUNTY REVIEW SET</td></tr><tr><td></td><td>12/16/16</td><td>100% CONSTRUCTION DOCUMENTS</td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table></div></div><div><div>ENVIRONMENTAL HEALTH OFFICE REMODEL</div><div>1131 HARBOR BAY PARKWAY, ALAMEDA, CA 94502</div><div><div>Architect of Record</div><div>S H A H KAWASAKI ARCHITECTS 570 10th Street, Suite 301 Oakland, CA 94607</div><div>Consultant</div></div><div><div>Drawing Title</div><div>SYMBOLS LIST AND GENERAL NOTES - ELECTRICAL</div><div>Drawing No.</div><div>E-001</div></div><div><div>SKA Project Number: 16715</div><div>Alameda County Project Number: 14028</div></div></div><tr><td></td><td>16</td><td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td></td></tr></div></div></div></div></div></div></div></div></div></div></div></div>	NO.	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GENERAL SHEET NOTES

- A. CONTRACTOR TO ENSURE ALL EXISTING LUMINAIRES AND DEVICES TO REMAIN IN USE BUT AFFECTED BY RENOVATION WORK SHALL BE VERIFIED THAT THEY HAVE CIRCUIT CONTINUITY.
- B. PROVIDE LINE VOLTAGE DIMMING SWITCHES COMPATIBLE WITH EXISTING LED LUMINAIRE DRIVERS.

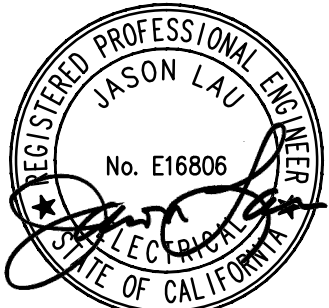
SHEET KEYNOTES

- 1 REUSE EXISTING LIGHT CIRCUITS IN NEWLY CREATED ROOMS. ADJUST EXISTING SWITCH CONNECTIONS SO THAT THE NEW SENSOR SWITCH WILL ONLY CONTROL THE LIGHT FIXTURES IN THE NEW ROOMS.
- 2 RELOCATE EXISTING LIGHTING LUMINAIRE TO NEW LOCATION AS SHOWN. RECONNECT COMPLETE TO EXISTING CIRCUITRY AS REQUIRED TO PLACE BACK INTO SERVICE. EXISTING LIGHT SWITCHES SHALL CONTROL ONLY THE EXISTING LUMINAIRES OUTSIDE THE NEW ROOMS.
- 3 PROVIDE NEW CONTROL DEVICES TO CONTROL LIGHTING LUMINAIRES IN NEWLY ENCLOSED SPACE. ENSURE THAT NEW CONTROL DEVICES CONTROL FIXTURES IN THIS ROOM ONLY.
- 4 RELOCATE (E) LIGHTING LUMINAIRE TO NEW OFFICE 234B AS SHOWN ON DRAWING 1/E-201.
- 5 NEW LOCATION OF RELOCATED LUMINAIRE FROM MDF ROOM. INSTALL COMPLETE AS REQUIRED TO PLACE INTO SERVICE.
- 6 DISCONNECT AND REMOVE EXISTING LIGHT SWITCHES. EXISTING OUTLET BOX AND CIRCUITRY CAN BE REUSED FOR THE NEW LIGHTING CONTROL SCHEME.

PROJECT 2016-0251
CONTACT Joel Cruz

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ENVIRONMENTAL HEALTH OFFICE REMODEL

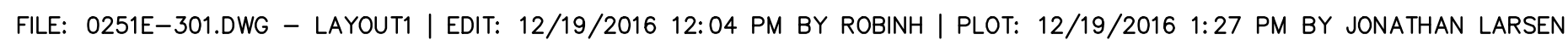
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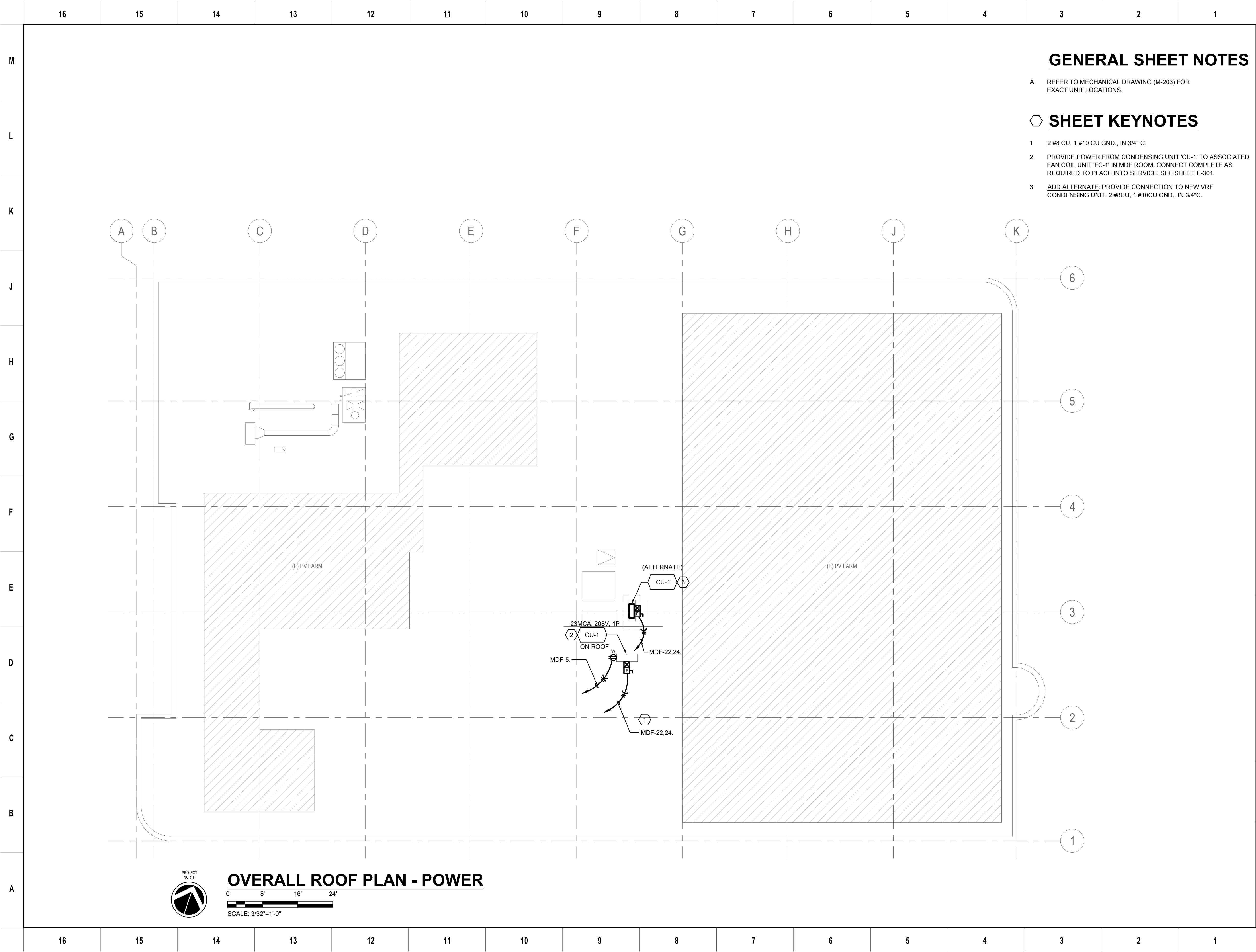
Architect of Record	Consultant
SHAH KAWASAKI ARCHITECTS 570 10th Street, Suite 301 Oakland, CA 94607	

Drawing Title
**LIGHTING PLANS -
OFFICES -
ELECTRICAL**

Drawing No.
E-201

SKA Project Number: 16715 Alameda County Project Number: 14028





GENERAL SHEET NOTES

A. REFER TO MECHANICAL DRAWING (M-203) FOR EXACT UNIT LOCATIONS.

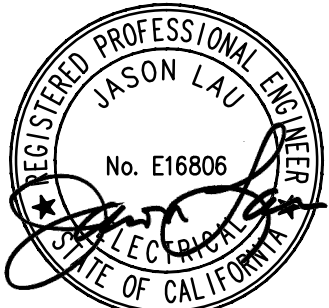
SHEET KEYNOTES

- 1 2 #8 CU, 1 #10 CU GND., IN 3/4" C.
- 2 PROVIDE POWER FROM CONDENSING UNIT 'CU-1' TO ASSOCIATED FAN COIL UNIT 'FC-1' IN MDF ROOM. CONNECT COMPLETE AS REQUIRED TO PLACE INTO SERVICE. SEE SHEET E-301.
- 3 ADD ALTERNATE: PROVIDE CONNECTION TO NEW VRF CONDENSING UNIT. 2 #8CU, 1 #10CU GND., IN 3/4"C.

PROJECT 2016-0251
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ENVIRONMENTAL HEALTH OFFICE REMODEL

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Drawing Title
**OVERALL ROOF
PLAN -
ELECTRICAL**

Drawing No.
E-302

SKA Project Number: 16715 Alameda County Project Number: 14028

FILE: 0251E-001.DWG - LAYOUT1 | EDIT: 12/19/2016 12:23 PM BY ROBINH | PLOT: 12/19/2016 1:26 PM BY JONATHAN LARSEN