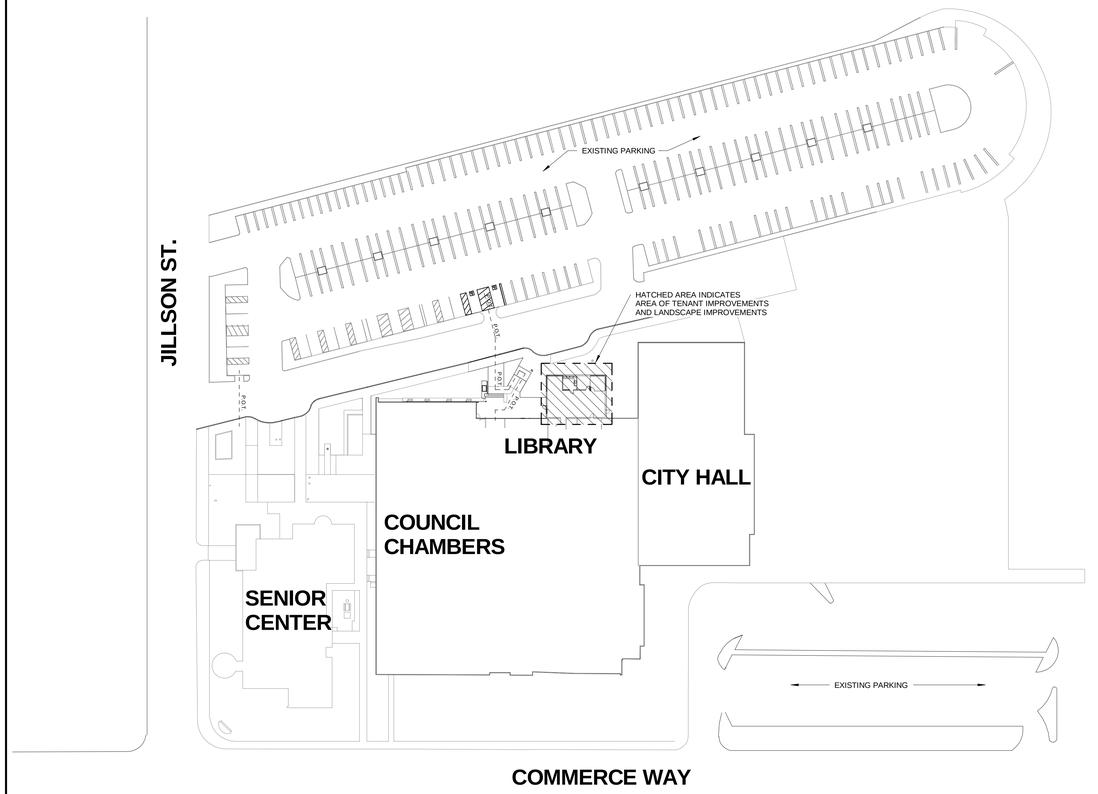
CITY OF COMMERCE
ROSEWOOD NEIGHBORHOOD LIBRARY
INTERIOR RENOVATION

2535 COMMERCE WAY
COMMERCE, CA 90040



SITE PLAN — SCALE: 1" = 50'-0" — 20

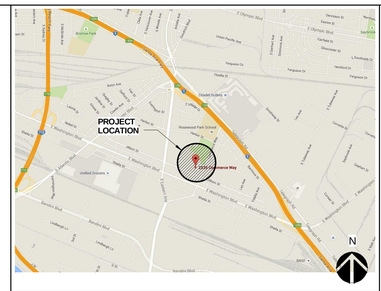
DISCLAIMER

IN AS MUCH AS THE VERIFICATION OF EXISTING CONDITIONS REQUIRES THAT CERTAIN ASSUMPTIONS BE MADE REGARDING THE EXISTING BUILDING, AND BECAUSE SOME OF THESE ASSUMPTIONS MA NOT BE VERIFIABLE WITHOUT EXPENDING ADDITIONAL SUMS OF MONEY, OR DESTROYING OTHERWISE ADEQUATE OR SERVICEABLE PORTIONS OF THE BUILDING, THE OWNER AGREES THAT, EXCEPT FOR NEGLIGENCE ON THE PART OF THE DESIGN PROFESSIONAL, THE OWNER WILL HOLD HARMLESS, INDEMNIFY AND DEFEND THE DESIGN PROFESSIONAL FROM AND AGAINST ANY AND ALL CLAIMS ARISING OUT OF THE PROFESSIONAL SERVICES PROVIDED UNDER THIS AGREEMENT.

ASSUME JOB NORTH

NOTE: P.O.T. — — — — P.O.T. — — —
ACCESSIBLE PATH OF TRAVEL (P.O.T) SHALL BE 5% MAX SLOPE AT WALKWAYS WITH 2% MAX CROSS SLOPE

N
ASSUMED NORTH



VICINITY MAP — SCALE: N.T.S. — 12

OWNER
CITY OF COMMERCE
2535 COMMERCE WAY
COMMERCE, CA 90040

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PUBLIC WORKS DEPARTMENT
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CARSON, CA 90746
CONTACT: THOMAS LEW
T: 949-302-1820

PROJECT DIRECTORY — 6

1. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK.
2. DO NOT SCALE DRAWINGS.
3. ALL WORK, CONSTRUCTION AND MATERIALS SHALL COMPLY WITH ALL PROVISIONS OF THE BUILDING CODE AND WITH OTHER RULES, REGULATIONS AND ORDINANCES GOVERNING THE PLACE OF BUILDING. BUILDING CODE REQUIREMENTS TAKE PRECEDENCE OVER THE DRAWINGS, AND SHALL BE THE RESPONSIBILITY OF ANYONE SUPPLYING LABOR OR MATERIALS OR BOTH TO BRING TO THE ARCHITECT'S ATTENTION ANY DISCREPANCIES OR CONFLICTS BETWEEN THE REQUIREMENTS OF THE CODE AND THE DRAWINGS.
4. DISCREPANCIES IN THE DRAWINGS OR BETWEEN THE DRAWINGS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT. CORRECTED DRAWINGS OR INSTRUCTIONS SHALL BE ISSUED BY THE ARCHITECT PRIOR TO INSTALLATION OF ANY WORK.
5. THE WORK ASSOCIATED WITH THIS FACILITY SHALL ENSURE THAT IT IS ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES, IN ACCORDANCE WITH C.C.R. TITLE 24 AND AS REQUIRED BY THE C.B.C., 2013 EDITION.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH DAMAGE FROM NOT LOCATING SAID UTILITY.
7. GENERAL CONTRACTOR TO BE RESPONSIBLE FOR ALL DEMOLITION IN PREPARATION FOR NEW WORK.
8. PATCH, RESTORE, AND REFINISH ALL AREAS DAMANGED BY THE CONSTRUCTION WORK AND DEMOLITION.
9. REPAIR ALL TRANSITIONAL AREAS BETWEEN EXISTING AND NEW WORK DUE TO DEMOLITION.
10. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL GOVERNING BLDG. CODES AND CITY ORDINANCES.

GENERAL NOTES — 7

P.O.T. (ACCESSIBLE PATH OF TRAVEL)

DETAIL NUMBER
SHEET NUMBER

SECTION LETTER
SHEET NUMBER

A — ELEVATION LETTER
B — ELEVATION NUMBER
C — SHEET NUMBER

ROOM NAME
ROOM NUMBER

DOOR NUMBER

RENOVATION KEYNOTE

DEMOLITION KEYNOTE

FINISH KEYNOTE

SYMBOL LEGEND — 9

(E) FIRE SPRINKLERS	YES
(E) FIRE ALARM	YES
OCCUPANCY GROUP:	A-3
TYPE OF CONTRUCTION:	111-B
LOCATION OF PROPERTY:	SEE VICINITY MAP
HEIGHT/NUMBER OF STORIES:	1
OCCUPANT LOAD:	15
PARKING:	N/A
ZONE:	PUBLIC FACILITY
LEGAL DESCRIPTION:	RANCHO LAGUNA LOT COM S 67°42'45" E 25 FT. AND S 22°17'45" W 608.33 FT. FROM NE CORNER OF LOT 63TH.
ASSESSOR'S ID No.:	6335-025-901
REGION/CLUSTER:	27/27871

BUILDING DATA — 10

SHEET INDEX

T1.0	TITLE SHEET
---	ARCHITECTURE
A1.0	ENLARGED RENOVATION PLANS
A2.0	REFLECTED CEILING PLANS
A3.0	INTERIOR ELEVATIONS SECTIONS
A4.0	ACCESSIBILITY DETAILS & DOOR & WINDOW DETAILS
S1	STRUCTURAL DETAILS
-----	ELECTRICAL
E-1	SYMBOL LIST, FIXTURE SCHEDULE, & SPECIFICATIONS
E-2	SINGLE LINE DIAGRAM & PANEL SCHEDULE
E-3	LIGHTING PLAN & POWER PLAN
E-4	TITLE 24 FORMS
E-5	TITLE 24 FORMS

ENVIORNMENTAL QUALITY

1. "AT THE TIME OF THE ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATION EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER ACCEPTABLE METHODS TO REDUCE THE AMOUNT OR DUST, WATER AND DEBRIS WHICH MAY COLLECT IN THE SYSTEM" (5.504.3)
2. PROVIDE FINISH PLAN NOTES COMPLYING WITH THE FOLLOWING:
   - A. ADHESIVES, SEALANTS AND CAULKS, PAINTS AND COATINGS, AND AEROSOL PAINTS AND COATINGS SHALL MEET OR EXCEED THE STANDARDS OUTLINED IN SECTIONS 5.504.4.1, 5.504.4.3, AND 5.504.4.3.1 RESPECTIVELY. VERIFICATION OF COMPLIANCE WITH THESE SECTIONS MUST BE PROVIDED AT THE TIME OF INSPECTION
   - B. ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE TESTING AND PRODUCT REQUIREMENTS OF ONE OF THE FOLLOWING: (5.504.4.4)
     - i. CARPET AND RUG INSTITUE'S GREEN LABEL PLUS PROGRAM OR
     - ii. CALIFORNIA DEPARTMENT OF PUBLIC HEALTH STANDARD PRACTICE FOR THE TESTING OF VOCS (SPEC 01350) OR
     - iii. NSF/ANSI 140 AT THE GOLD LEVEL OR
     - iv. SCIENTIFIC CERTIFICATIONS SYSTEMS SUSTAINABLE CHOICE
     - v. VOC EMMISION LIMITS DEFINED IN THE CHPS HIGH PERFORMANCE PRODUCTS DATABSE
   - C. ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE GREEN LABEL PROGRAM. CARPET ADHESIVES SHALL NOT EXCEED A VOC LIMIT OF 50 g/L. (5.504.4.4.1, 5.504.4.4.2)
   - D. COMPOSITE WOOD PRODUCTS (HARDWOOD PLYWOOD, PARTICLE BOARD, AND MDF COMPOSITE WOOD) INSTALLED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET OR EXCEED THE STANDARDS OUTLINED IN TABLE 5.504.4.5 (5.504.4.5)
   - E. MINIMUM OF 80% OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH ONE OR MORE OF THE FOLLOWING:
     - i. VOC EMISSION LIMITS DEFINED IN THE CHPS HIGH PERFORMANCE PRODUCTS DATABASE OR
     - ii. PRODUCTS CERTIFIED UNDER UL GREENGUARD GOLD (FORMERLY THE GREENGUARD CHILDREN & SCHOOLS PROGRAM) OR
     - iii. CERTIFICATION UNDER THE RFCI FLOORSCORE PROGRAM OR
     - iv. MEET THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH STANDARD METHOD FOR THE TESTING OF VOC EMISSIONS (SPECIFICATION 01350) (5.504.4.6)

ENVIORNMENTAL QUALITY — 2

1. FIRE SPRINKLERS
2. FIRE ALARM
3. ELECTRICAL

DEFERED SUB./SEP. PERMITS — 3

APPLICABLE STATE CODES (WITH CITY OF COMMERCE AMENDMENTS & 2014 LA COUNTY AMENDMENTS)

2013 CALIFORNIA BUILDING CODE
2013 CALIFORNIA ELECTRICAL CODE
2013 CALIFORNIA GREEN BUILDING CODE

FEDERAL STANDARDS

2010 ADA STANDARDS

APPLICABLE CODES — SCALE: N.T.S. — 4

EXTERIOR: NO WORK

INTERIOR: NO BUILDING ADDITION. RENOVATION OF THE EXISTING OPEN OFFICE, BREAKROOM, AND TWO OFFICES.

RENOVATION CONSIST OF REMOVAL OF INTERIOR WALLS, AND REPLACING WITH NEW STUD WALLS AS SHOWN AND NEW BREAKROOM ENCLOSURE AND CABINETS. REPLACEMENT OF EXISTING LIGHT FIXTURES WITH LED TYPE, SUSPENDED CEILING AND NEW SOLAR TUBES AT THE OPEN OFFICE.

SCOPE OF WORK — SCALE: N.T.S. — 5

ABBREVIATIONS — 15

&	AND	I.D.	INSIDE DIAMETER (DIMENSION)
∠	ANGLE	INSUL	INSULATION
@	AT	INT	INTERIOR
C	CENTERLINE	JAN	JANITOR
⌀	DIAMETER OR ROUND	JT	JOINT
⊥	PERPENDICULAR	KIT	KITCHEN
#	POUND OR NUMBER	LAM	LAMINATE
ACC.	ACCESSIBLE	LAV	LAVATORY
A/C	AIR CONDITIONING	LT	LIGHT
ACOUS.	ACOUSTICAL	MAX	MAXIMUM
A.D.	AREA DRAIN	M.C.	MEDICINE CABINET
ADJ.	ADJUSTABLE	MECH	MECHANICAL
AL.	ALUMINUM	MEMB	MEMBRANE
APPROX.	APPROXIMATE	MTL	METAL
ARCH.	ARCHITECTURAL	MFR	MANUFACTURER
ASPH.	ASPHALT	MIN.	MINIMUM
A.T.	ACOUSTICAL TILE	MISC	MISCELLANEOUS
BD.	BOARD	M.O.	MASONRY OPENING
BITUM.	BITUMINOUS	MTD	MOUNTED
BLDG.	BUILDING	MRG	MOISTURE RESISTANT GYP. BD.
BLK	BLOCK	MUL	MULLION
BM	BEAM	N	NORTH
BOT	BOTTOM	N.I.C.	NOT IN CONTRACT
CAB	CABINET	NO.	NUMBER
C.B.	CATCH BASIN	NOM	NOMINAL
CEM	CEMENT	N.T.S.	NOT TO SCALE
CER	CERAMIC	O/	OVER
C.I.	CAST IRON	OBS	OBSCURE
CLG.	CEILING	O.C.	ON CENTER
CLKG	CALKING	O.D.	OUTSIDE DIAMETER (DIMENSION)
CLR.	CLEAR	OFF.	OFFICE
CMU	CONCRETE MASONRY UNIT	OPNG	OPENING
COL.	COLUMN	OPP.	OPPOSITE
CONC.	CONCRETE	PRCST	PRECAST
CONN.	CONNECTION	PL	PLATE
CONST.	CONSTRUCTION	P. LAM.	PLASTIC LAMINATE
CONT.	CONTINUOUS	PLAS	PLASTER
C.T.	CERAMIC TILE	PLYWD	PLYWOOD
CTR	CENTER	PR	PAIR
DBL	DOUBLE	PT	POINT
DEPT.	DEPARTMENT	Q.T.	QUARRY TILE
D.F.	DRINKING FOUNTAIN	R	RISER
DIA.	DIAMETER	RAD	RADIUS
DET	DETAIL	R.D.	ROOF DRAIN
DIM	DIMENSION	REF	REFERENCE
DISP	DISPENSER	REFR	REFRIGERATOR
DN	DOWN	REINF	REINFORCED
DR	DOOR	REQ	REQUIRED
DS	DOWNSPOUT	RESIL	RESILIENT
DWG	DRAWING	RM	ROOM
E	EAST	R.O.	ROUGH OPENING
EA.	EACH	RWD	REDWOOD
EL.	ELEVATION	S	SOUTH
ELEC	ELECTRICAL	SC	SOLID CORE
ELEV	ELEVATOR	SCHED	SCHEDULE
EMER	EMERGENCY	SECT	SECTION
ENCL	ENCLOSURE	SH	SHELF
EQ	EQUAL	SHR	SHOWER
EQPT	EQUIPMENT	SHT	SHEET
(E) OR EXIST	EXISTING	SIM	SIMILAR
EXPO	EXPOSED	SPEC	SPECIFICATION
EXP	EXPANSION	SQ	SQUARE
E.J.	EXPANSION JOINT	S.STL.	STAINLESS STEEL
EXT	EXTERIOR	S.SK.	SERVICE SINK
F.A.	FIRE ALARM	STA	STATION
F.D.	FLOOR DRAIN	STD	STANDARD
FND	FOUNDATION	STL	STEEL
F.E.	FIRE EXTINGUISHER	STOR	STORAGE
F.E.C.	FIRE EXTINGUISHER CABINET	STRUC	STRUCTURAL
FIN	FINISH	SUSP	SUSPENDED
FL	FLOOR	SYM	SYMMETRICAL
FLASH	FLASHING	TRD	TREAD
FLUOR	FLUORESCENT	T.B.	TOWEL BAR
F.O.C.	FACE OF CONCRETE	T.C.	TOP OF CURB
F.O.F.	FACE OF FINISH	TEL	TELEPHONE
F.O.S.	FACE OF STUD	T&G	TONGUE AND GROOVE
FPRF	FIREPROOF	THK	THICK
FT	FOOT OR FEET	T.P.	TOP OF PAVEMENT
FTG	FOOTING	TV	TELEVISION
FURR	FURRING	T.W.	TOP OF WALL
GA	GAUGE	TYP.	TYPICAL
GALV	GALVANIZED	UNF	UNFINISHED
G.I.	GALVANIZED IRON	U.N.O.	UNLESS OTHERWISE NOTED
GL	GLASS	UR	URINAL
GND	GROUND	VERT	VERTICAL
GR	GRADE	VEST	VESTIBULE
GYP.	GYPSUM	W	WEST
H.B.	HOSE BIB	W/	WITH
H.C.	HOLLOW CORE	W.C.	WATER CLOSET
HDWD	HARDWOOD	WD	WOOD
HDWE	HARDWARE	W/O	WITHOUT
HM	HOLLOW METAL	WP	WATERPROOF
HORIZ	HORIZONTAL	WSCT	WAINSCOT
HR	HOUR	WT	WEIGHT
HT	HEIGHT	W.I.	WROUGHT IRON

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1511 Cota Ave. Long Beach, CA 90813 Tel. 562 - 912 - 7900

CITY OF COMMERCE
LIBRARY INTERIOR RENOVATION
2535 COMMERCE WAY, COMMERCE, CA 90040

No.	Date	Revision	By	Ck

Designer: MA
CAD Draft: -
Architect: LN
Engineer:
Client: COMMERCE
Date Issue: 10 - 25 - 16
Job Number: 2723

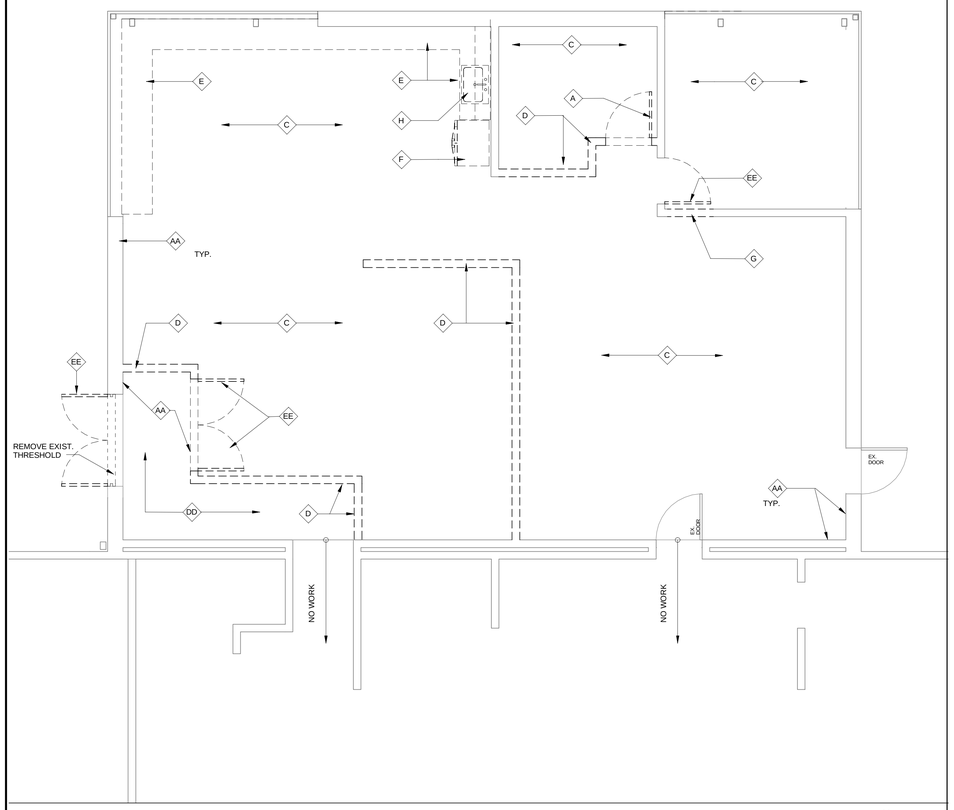
Client:

Consultant:

LICENSED ARCHITECT
Edward Lok Ng
C-16840
REN:11/30/17
STATE OF CALIFORNIA

- TITLE SHEET
-
-

T1.0

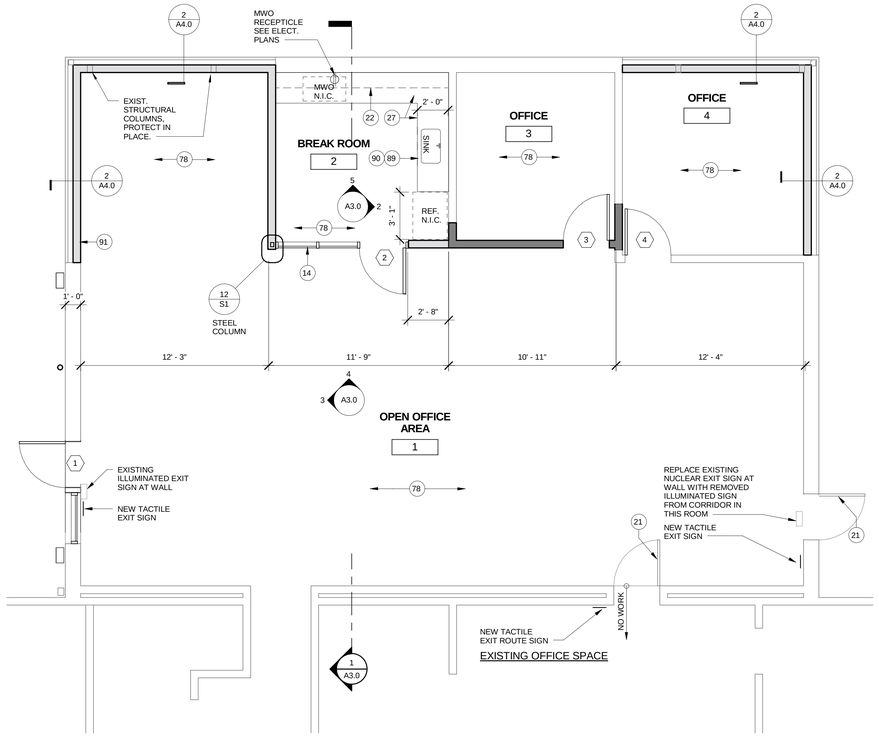


NORTH

ASSUMED NORTH

DEMOLITION PLAN

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



TRUE NORTH

JOB NORTH

ENLARGED RENOVATION PLAN

SCALE: 1/4" = 1'-0" | 8

RENOVATION KEYNOTES

A	EXISTING DOOR, DOOR FRAME AND DOOR HARDWARE TO BE REMOVED AND SALVAGE FOR RE-INSTALLATION.
AA	REMOVE EXISTING RUBBER BASE THROUGHOUT AREA OF WORK.
C	EXISTING CARPET FLOORING AND BASE MATERIAL TO REMOVED.
D	EXISTING WALL TO BE DEMOLISHED FOR NEW SOFFIT.
DD	REMOVE EXISTING VCT FLOORING.
E	EXISTING KITCHEN UPPER CABINETS AND BUILT-IN COUNTERS TO BE DEMOLISHED.
EE	EXISTING DOOR TO BE DEMOLISHED.
F	REMOVE EXISTING REFRIGERATOR, CONFIRM WITH OWNER ITEMS TO BE SALVAGED.
G	DEMOLISH PORTION OF WALL FOR NEW DOOR OPENING.
H	EXISTING SINK TO BE REMOVED AND DISPOSED OF.

RENOVATION KEYNOTES

14	NEW STOREFRONT SYSTEM AND DOORS.
21	EXISTING DOOR AND AND DOOR HARDWARE TO REMAIN, PROTECT IN PLACE.
22	NEW UPPER CABINETS.
27	NEW LOWER KITCHEN CABINETS MADE OF PLASTIC LAMINATE OVER PLYWOOD. SOLID SURFACE "CORIAN" COUNTER TOP AND INTEGRAL SPLASH.
78	INSTALL NEW VINYL COMPOSITION TILE 12"X 12".
89	NEW SINK MOUNTED ON TOP OF COUNTER WITH INSULATION COVER OVER SUPPLY PIPES AND DRAINAGE PIPE MODEL:
90	NEW GARBAGE DISPOSAL MOUNTED BELOW SINK.
91	INSTALL NEW 3-5/8" STUD WALL W/ INSULATION TO 8 FT HIGH. INTERIOR SIDE TO RECEIVE 5/8" G'YP BOARD.

WALL LEGEND

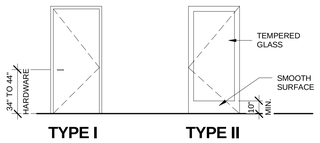
- EXISTING WALL TO BE DEMOLISHED
- WALL TO REMAIN, PATCH AND REPAIR AREAS TO MATCH EXISTING WHERE DAMAGED BY DEMOLITION WORK
- NEW 3 5/8" X 20 GA METAL STUD WALL AT 16" O.C WITH 5/8" GYPSUM BOARD ON INTERIOR SIDE AND TWO-COAT PLASTER SYSTEM ON EXTERIOR SIDE
- SAME TYPE AS ABOVE BUT 8'-0" HIGH
- EXISTING KALWALL TO REMAIN

DOOR SCHEDULE

MARK	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THK.	DOOR TYPE	DOOR CONSTRUCT.	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	HEAD DETAIL	JAMB DETAIL	THRESHOLD DETAIL	HARDWARE SET	COMMENTS
1	3' - 0"	7' - 0"	1 3/4"	I	HOLLOW METAL	P	HM	P	20A/A / -/-	20A SIM. & 20B	22/A1.0	03	
2	3' - 0 1/2"	6' - 10"	1 3/4"	III	AL / GLASS	NAT	AL	NAT	18D /D / -D	18C / A1.0	-	01	
3	3' - 0"	7' - 0"	1 3/4"	I	WOOD		HM		5 / // A4.0	10 / A4.0	-	02	RELOCATE EXIST. DOOR & FRAME
4	3' - 0"	7' - 0"	1 3/4"	I	WOOD	STAIN	HM	P	5 / // A4.0	10 / A4.0		02	

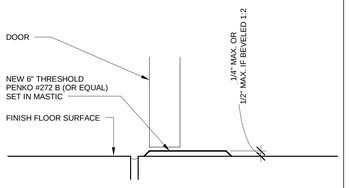
ABBREVIATIONS

AL	ALUMINUN
ANO	ANODIZED
HM	HOLLOW METAL
P	PAINT
NAT	NATURAL



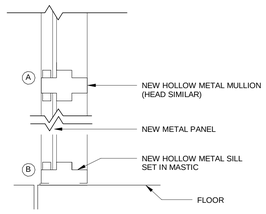
DOOR TYPES

SCALE: 1/4" = 1'-0" | 19



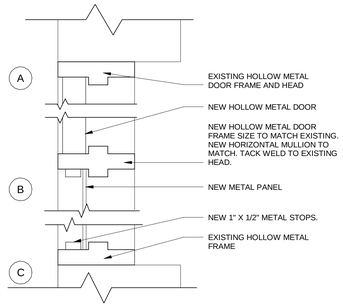
SILL

22



EX. SIDE LIGHT SILL & MULLION

21



EX. DOOR & SIDE JAMB

20

MATERIAL SCHEDULE

NO.	MATERIAL	MANUF.	COLOR/MODEL NO.	NOTES
GB-1	GYP BOARD	-	-	PAINT TO MATCH
P-1	SEMI GLOSS - PAINT	DUNN-EDWARD	-	PAINT WALLS
P-2	SEMI GLOSS - PAINT	DUNN-EDWARD	-	PAINT DOORS INSIDE & OUTSIDE & FRAME.
RB-1	4" RUBBER BASE	-	MATCH EXISTING	
LVT-1	VINYL COMPOSITION TILE	MANNING COMMERCIAL, AMTICO	12" X 12"	SPACIA COLLECTION "CERAMIC SABLE NO: SSSS3693

ROOM SCHEDULE

ROOM No.	ROOM NAME	FLOOR/BASE	WALLS NORTH MAT.	WALLS NORTH FIN.	WALLS EAST MAT.	WALLS EAST FIN.	WALLS SOUTH MAT.	WALLS SOUTH FIN.	WALLS WEST MAT.	WALLS WEST FIN.	CEILING MAT.	CEILING FIN.	COMMENTS
1	OPEN OFFICE AREA	LVT-1/RB-1	GB	P-	-	P-	-	P-	GB	P-	ACT	F.F.	
2	BREAK ROOM	LVT-1/RB-1	-	P-	GB	P-	GLASS/GB	P-	GB	P-	ACT	F.F.	
3	OFFICE	LVT-1/RB-1	-	-	GB	P-	GB	P-	GB	P-	ACT	F.F.	
4	OFFICE	LVT-1/RB-1	GB	P-	GB	P-	-	-	GB	P-	ACT	F.F.	

NOTES:
1. WHEN MATCH EXISTING IS NOTED DISCUSS COLOR AND FINISH W/ CITY REPRESENTATIVE FOR CITY STANDARDS.
2. F.F. = FACTORY FINISH

SCHEDULES

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CITY OF COMMERCE
LIBRARY INTERIOR RENOVATION
2535 COMMERCE WAY, COMMERCE, CA 90040

No.	Date	Revision	By	Ck

Designer: MA
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Architect: LN
Engineer:
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Consultant:

LICENSED ARCHITECT
Edward Lok Ng
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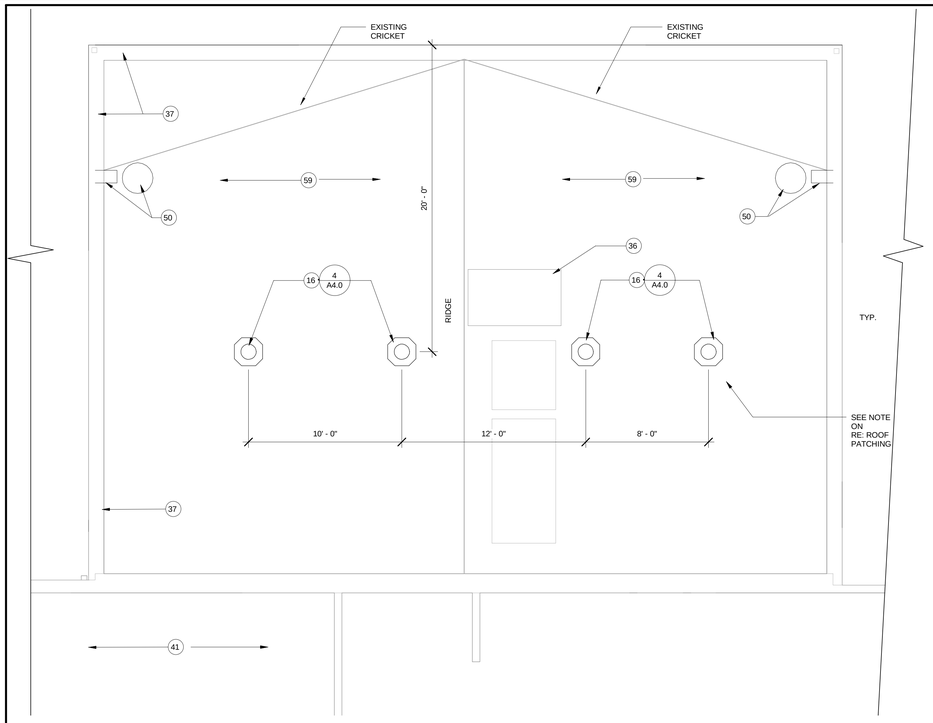
STATE OF CALIFORNIA

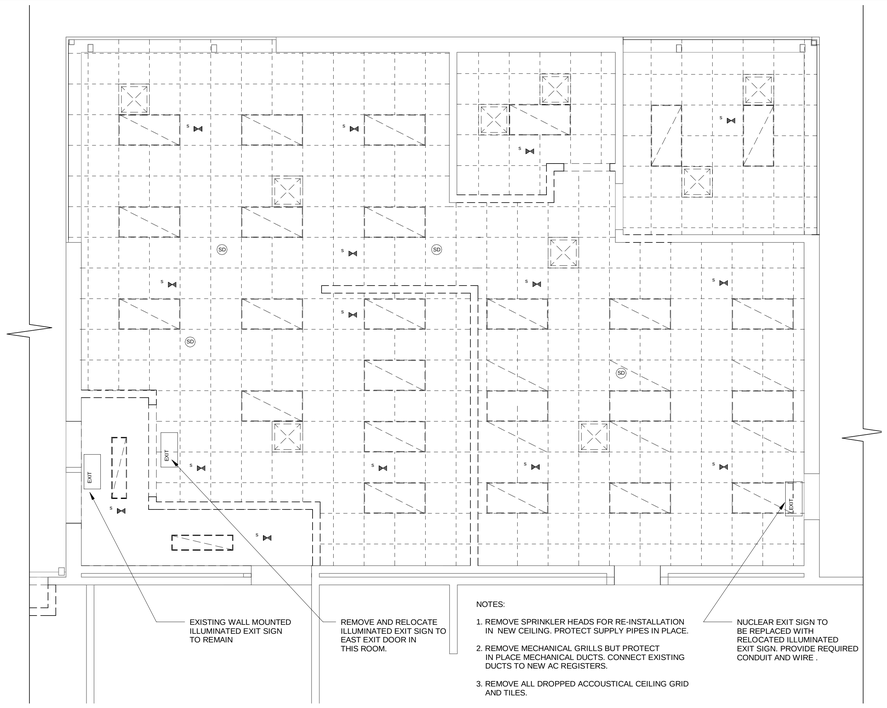
- ENLARGED
- RENOVATION
- PLANS

A1.0



3 ROOF PLAN
SCALE: 1/4" = 1'-0"

TRUE NORTH — JOB NORTH

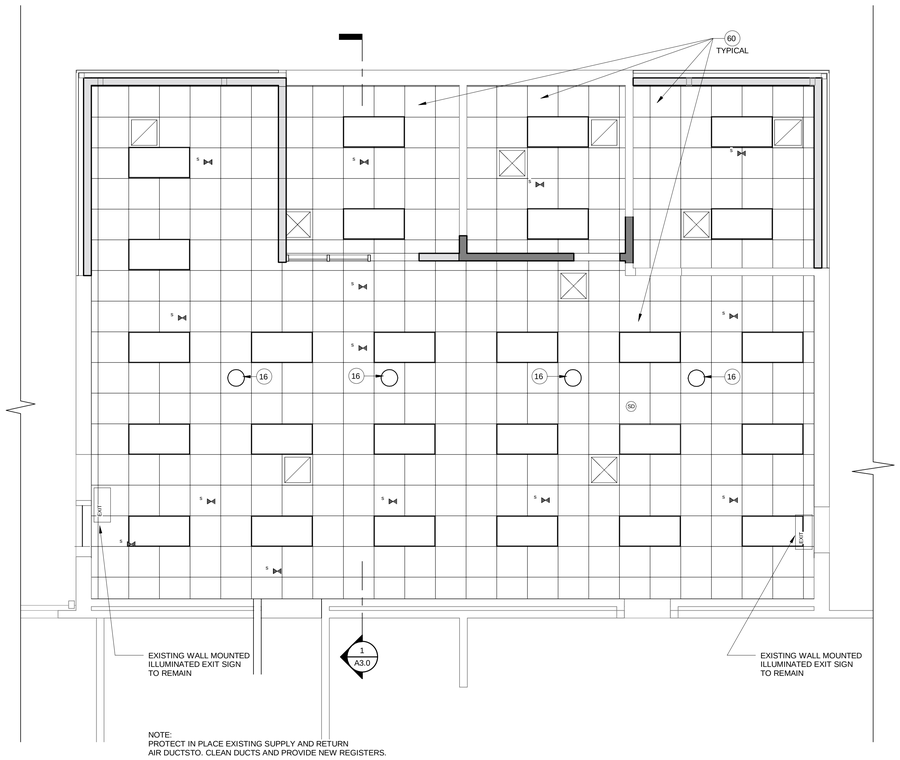


NOTES:

1. REMOVE SPRINKLER HEADS FOR RE-INSTALLATION IN NEW CEILING. PROTECT SUPPLY PIPES IN PLACE.
2. REMOVE MECHANICAL GRILLS BUT PROTECT IN PLACE MECHANICAL DUCTS. CONNECT EXISTING DUCTS TO NEW AC REGISTERS.
3. REMOVE ALL DROPPED ACCOUSTICAL CEILING GRID AND TILES.

1 DEMOLITION REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

TRUE NORTH — JOB NORTH



NOTE:
PROTECT IN PLACE EXISTING SUPPLY AND RETURN AIR DUCTSTO. CLEAN DUCTS AND PROVIDE NEW REGISTERS.

2 RENOVATION REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

TRUE NORTH — JOB NORTH

RENOVATION KEYNOTES

16	NEW SOLAR TUBES. PATCH AND REPAIR ROOF AREAS DAMANGED BY NEW WORK. BID ALTERNATE #1. CITY OF LOS ANGELES RESEARCH REPORT: RR25251 (CSI #08620) OR RR25885 (CSI #086200)
36	EXISTING ROOF MOUNTED MECHANICAL EQUIPMENT AND CURBS TO REMAIN, PROTECT IN PLACE.
37	EXISTING PARAPET.
41	EXISTING ROOF TO REMAIN, PROTECT IN PLACE.
50	ROOF DRAIN AND THRU PARAPET OVERFLOW.
59	EXISTING SINGLE PLY ROOFING TO REMAIN.
60	NEW 2X2 ACCOUSTICAL TILE SUSPENDED CEILING; SEE SPECS AND DETAILS 3, 8, & 14 ON SHEET A7 & 6 ON SHEET A3.0.

FIXTURE LEGEND

- NEW 2x4 LED LIGHT FIXTURES
- REPLACE EXISTING 18x18 SQUARE RETURN REGISTER WITH NEW TO MATCH EXISTING.
- REPLACE EXISTING 18x18 SQUARE SUPPLY REGISTER WITH NEW TO MATCH EXISTING.
- SOLAR TUBE
- S — SPEAKER
- SPRINKLERS

NOTE:

(N) INDICATES NEW FIXTURE.
(E) NEXT TO FIXTURE INDICATES EXISTING TO REMAIN AND PROTECT IN PLACE.

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CITY OF COMMERCE
LIBRARY INTERIOR RENOVATION
2535 COMMERCE WAY, COMMERCE, CA 90040

No.	Date	Revision	By	Ck

Designer: MA
CAD Draft: -
Architect: LN
Engineer:
Client: COMMERCE
Date Issue: 10 - 25 - 16
Job Number: 2723

Client:

Consultant:

LICENSED ARCHITECT
Edward Lok Ng
C-16840
REN:11/30/17
STATE OF CALIFORNIA

- REFLECTED
- CEILING PLANS
-

A2.0

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SUSPENDED CEILING SYSTEMS

SUSPENDED CEILING SYSTEMS, ALSO KNOWN AS ACOUSTICAL CEILING SYSTEMS, ARE CEILING ASSEMBLIES USED TO SUPPORT ACOUSTICAL LAY-IN PANELS OR TILES. SUCH SYSTEMS SHALL COMPLY WITH SECTION 808 AND 2506 OF THE BUILDING CODE, INCLUDING SECTION 13.5.6 OF THE ASCE 7-05 STANDARD, ASTM C 635, ASTM C 636, AND CISCA - "GUIDELINES FOR SEISMIC RESTRAINT FOR DIRECT - HUNG SUSPENDED CEILING ASSEMBLIES."

THE SUSPENDED CEILING SYSTEM SHALL COMPLY WITH THE PRESCRIPTIVE PROVISION AS LISTED BELOW WHEN NOT PART OF A FIRE - RESISTIVE - RATED ASSEMBLY:

A. REQUIREMENTS:

i. A HEAVY DUTY T - BAR GRID SYSTEM SHALL BE USED AS DEFINED IN ASTM C 635.

ii. THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE 2 INCH MINIMUM WIDE. IN EACH ORTHOGONAL DIRECTION, ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THECLOSURE ANGLE (SEE ATTACHED WALL MOLDING REQUIREMENTS DETAIL), AND THE OTHEREND SHALL REST ON THE SUPPORTING ANGLE WITH A 0.75 INCH CLEARANCE TO THE WALL AND SHALL BE FREE TO SLIDE (SEE UNATTACHED WALL MOLDING REQUIREMENTS DETAIL).

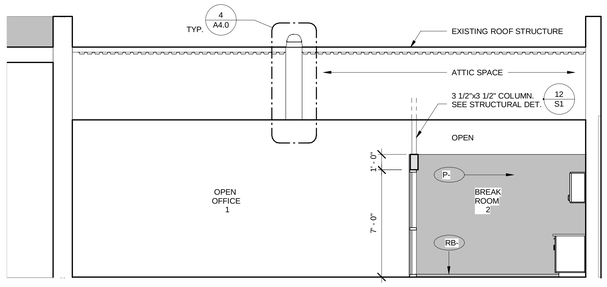
iii. CEILING AREAS EXCEEDING 144 FT2 SHALL HAVE HORIZONTAL AND VERTICAL RESTRAINTS OF THE CEILING TO THE STRUCTURAL SYSTEM

iv. CEILING AREAS EXCEED 2,500 FT2 SHALL HAVE FULL HEIGHT PARTITIONS THAT BREAK THECEILING UP INTO AREAS NOT EXCEEDING 2,500FT2.

v. SPRINKLER HEADS AND OTHER PENETRATIONS SHALL HAVE A 2 INCH OVERSIZE RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1 INCH IN ALL HORIZONTAL DIRECTIONS.

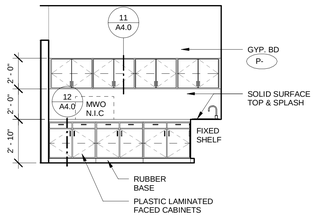
vi. CHANGES IN CEILING PLAN ELEVATION SHALL BE PROVIDED WITH POSITIVE BRACING. LUMINAIRES, SPEAKERS, DUCTS AND GRILLES, CABLES, CABLE TRAYS, ELECTRICAL BOXES, AND CONDUITS SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING. (IN FIRE-RATED ASSEMNLIES, WHERE INDEPENDENT SUPPORT WIRES ARE USED, THEY SHALL BE DISTINGUISHABLE BY COLOR, TAGGING, OR OTHER EFFICTIVE MEANS FROM THOSE THAT ARE PART OF THE FIRE - RATED DESIGN. [SECTION 300.11(A)(1) OF THE ELECTRICAL CODE])

SUSPENDED CEILING SYSTEM 6



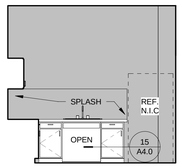
SECTION / ELEVATION

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



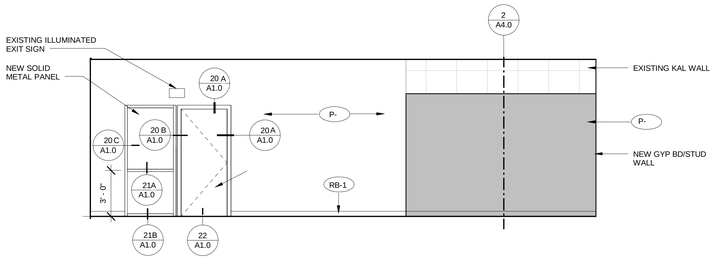
BREAKROOM NORTH

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



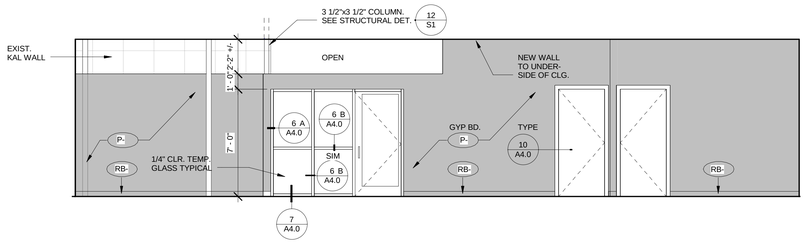
BREAKROOM EAST

SCALE: 1/4" = 1'-0" 2



WEST INTERIOR ELEVATION

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



NORTH INTERIOR ELEVATION

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

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CITY OF COMMERCE
LIBRARY INTERIOR RENOVATION
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No.	Date	Revision	By	Ck

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- INTERIOR
- ELEVATIONS
- SECTIONS

A3.0

SECTION 803

803.1 General. The provisions of this section shall limit the allowable fire performance and smoke development of interior wall and ceiling finishes and interior wall and ceiling trim in existing buildings based on location and occupancy classification. Interior wan and ceiling finishes shall be classified in accordance with Section 803 of the California Building Code. Such materials shall be grouped in accordance with ASTM E 84, as indicated in Section 803.1.1, or in accordance with NFPA 286, as indicated in Section 803.1.2.
Exceptions:
1. Materials having a thickness less than 0.036 inch (0.9 mm) applied directly to the surface of walls and ceilings.
2. Exposed portions of structural members complying with the requirements of buildings of Type IV construction in accordance with the California Building Code shaN not be subject to interior finish requirements.

803.1.1 Classification in accordance with ASTM E 84.
Interior finish materials shaH be grouped in the following classes in accordance with their flame spread and smokedeveloped index when tested in accordance with ASTM E84.
Class A: flame spread index 0-25; smoke-developed index 0-450.
Class B: flame spread index 26-75; smoke-developed index 0-450.
Class C: flame spread index 76-200; smoke-developed index 0-450.

803.1.2 Classification in accordance with NFPA 286.
Interior wall or finishes shall be allowed to be tested in accordance with NFP A 286. Finishes tested in accordance with NFP A 286 shall comply with Section 803.1.2.1. Interior wall and ceiling finish materials tested in accordance with NFP A 286 and meeting the acceptance criteria of Section 803.1.2.1 shall be allowed to be used where a Class A classification in accordance with ASTM E 84 is required.

803.1.2.1 Acceptance criteria for NFP A 286. The interior finish sha1 comply with the following:
1. During the 40 kW exposure, flames shall not spread to the ceiling.
2. The flame shall not spread to the outer extremity of the sample on any wall or ceiling.
3. Flashover, as defined in NFPA 286, shall not occur.
4. The peak heat release rate throughout the test shall not exceed 800 kW.
5. The total smoke released throughout the test shall not exceed 1,000 m2.

803.2 Stability. Interior finish materials regulated by this chapter shall be applied Of otherwise fastened in such a manner that such materials will not readily become detached where subjected to room temperatures of 2000 P (93°C) for not less than 30 minutes.

803.3 Interior finish requirements based on occupancy. Interior wall and ceiling finish shall have a flame spread index not greater than that specified in Table 803.3 for the group and location designated.

803.4 Fire-retardant coatings. The required flame spread or smoke-developed index of surfaces in existing buildings shal1 be allowed to be achieved by application of approved fireretardant coatings, paints or solutions to surfaces having a flame spread index exceeding that allowed. Such applications shall comply with NFP A 703 and the required fire-retardant properties shall be maintained or renewed in accordance with the manufacture's instructions.

803.5 Textiles. Where used as interior wall or ceiling finish materials, textiles, including materials having woven or nonwoven, napped, tufted, looped or similar surface, shall comply with the requirements of this section.

803.5.1 Textile wall or ceiling coverings. Textile wall or ceiling coverings shall comply with one of the following:
1. The wall or ceiling covering shall have a Class A flame spread index in accordance with ASTM E 84 or UL 723, and be protected by automatic sprinklers installed in accordance with Section 903.3.1.1 or 903.3.1.2;
2. The wall covering shall meet the criteria of Section 803.5.1.1 or 803.5.1.2 when tested in the manner intended for use in accordance with NFP A 265 using the product-mounting system, including adhesive, of actual use; or
3. The wall or ceiling covering shall meet the criteria of Section 803.1.2.1 when tested in accordance with NFPA 286 using the product-mounting system, including adhesive, of actual use.

803.5.1.1 Method A test protocol. During the Method A protocol, flame shall not spread to the ceiling during the 40-kW exposure. During the 150-kW exposure, the textile wa]] covering shall comply with all of the following:
1. Flame shall not spread to the outer extremity of the sample on the 8-foot by 12-foot (203 mm by 305 mm) wall.
2. The specimen shall not burn to the outer extremity of the 2-foot-wide (610 mm) samples mounted in the corner of the room.
3. Burning droplets deemed capable of igniting textile wall coverings or that burn for 30 seconds or more shall not form.
4. Flashover, as defined in NFPA 265, shall not occur.
5. The maximum net instantaneous peak heat release rate, determined by subtracting the burner output from the maximum heat release rate, does not exceed 300 kW.

803.5.1.2 Method B test protocol. During the Method B protocol, the textile wall covering or expanded vinyl wall covering shall comply with the following:
1. During the 40-kW exposure, flames shall not spread to the ceiling.
2. The Harne shall not spread to the outer extremities of the samples on the 8-foot by 12-foot (203 by 305 mm) walls.
3. Flashover, as defined in NFPA 265, shall not occur.
4. For newly introduced wall and ceiling coverings, the total smoke released throughout the test shall not exceed 1,000

803.5.2 Newly introduced textile wall and ceiling coverings. Newly introduced textile wall and ceiling coverings shall comply with one of the following:
1. The wall or ceiling covering shall have a Class A flame spread index in accordance with ASTM E 84 or UL 723, and be protected by automatic sprinklers installed in accordance with Section 903.3.1.1 or 903.3.1.2. Test specimen preparation and mounting shall be in accordance with ASTM E 2404.
2. The wall covering shall meet the criteria of Section 803.5.1.2 when tested in the manner intended for use in accordance with NFPA 265 using the productmounting system (including adhesive) of actual use.
3. The wall or ceiling covering shall meet the criteria of Section 803.1.2.1 when tested in accordance with NFPA 286 using the product-mounting system (including adhesive) of actual use.

803.6 Expanded vinyl wall or ceiling coverings. Expanded vinyl wall or ceiling coverings shall comply with one of the following:
1. The wall or ceiling covering shall have a Class A flame spread index in accordance with ASTM E 84 or UL 723, and be protected by automatic sprinklers installed in accordance with Section 903.3.1.1 or 903.3.1.2. Test specimen preparation and mounting shall be in accordance with ASTM E 2404.
2. The wall covering shall meet the criteria of Section 803.5.1.2 when tested in the manner intended for use in accordance with NFPA 265 using the product-mounting system (including adhesive) of actual use.
3. The wall or ceiling covering shall meet the criteria of Section 803.1.2.1 when tested in accordance with NFPA 286 using the product-mounting system (including adhesive) of actual use.

803.7 Foam plastic materials. Foam plastic materials shall not be used as interior wall and ceiling finish unless specifically allowed by Section 803.7.1 or 803.7.2. Foam plastic materials shall not be used as interior trim unless specifically allowed by Section 803.7.3.

803.7.1 Combustibility characteristics. Foam plastic materials shall be allowed on the basis of fire tests that substantiate their combustibility characteristics for the use intended under actual fire conditions, as indicated in Section 2603.10 of the California Building Code. This section shall apply both to exposed foam plastics and to foam plastics used in conjunction with a textile or vinyl facing or cover.

803.7.2 Thermal barrier. Foam plastic material shall be allowed if it is separated from the interior of the building by a thermal barrier in accordance with Section 2603.4 of the California Building Code.

803.7.3 Trim. Foam plastic shall be allowed for trim in accordance with Section 804.2.

803.8 High-density polyethylene (HDPE) and polypropylene (PP). Where high-density polyethylene or polypropylene is used as an interior finish it shall comply with Section 803.1.2.

803.9 Site-fabricated stretch systems. Where used as newly installed interior wall or interior ceiling finish materials, sitefabricated stretch systems containing all three components described in the definition in Section 802 shall be tested in the manner intended for use, and shall comply with the requirements of Section 803.1.1 or 803.1.2. If the materials are tested in accordance with ASTM E 84 or UL 723, specimen
preparation and mounting shall be in accordance with ASTM E 2573.

803.10 Unframed rigid combustible decorative material. Rigid combustible decorative material and assemblies of materials not more than 1/4 inch in thickness used for folding doors, room dividers, decorative screens and similar applications, which do not create concealed spaces and which are installed with exposed edges, shall be flame resistant in accordance with SFM Standard 12-7-5 contained in Title 24,
Part 12, California Referenced Standards Code.

803.10.1 Framed rigid combustible decorative material. Rigid combustible decorative material and assemblies of materials not more than 1/4 inch in thickness used for folding doors, room dividers, decorative screens and similar applications, and which are installed with all edges protected, shall conform to SFM Standard 12-7-5 contained in Title 24, Part 12, California Referenced Standards Code.

SECTION 804

804.1 Interior trim. Material, other than foam plastic, used as interior trim in new and existing buildings shall have minimum Class B flame spread and 450 smoke-developed index in Group I-3 and for all other occupancies Class C flame spread and smoke-developed indices, when tested in accordance with ASTM E 84 or UL 723, as described in Section 803.1.1. Combustible trim, excluding handrails and guardrails, shall not exceed 10 percent of the specific wall or ceiling areas to which it is attached.

804.1.1 Alternative testing. When the interior trim material has been tested as an interior finish in accordance with NFP A 286 and complies with the acceptance criteria in Section 803.1.2.1, it shall not be required to be tested for flame spread index and smoke-developed index in accordance with ASTM E 84.

804.2 Foam plastic. Foam plastic used as interior trim shall comply with Sections 804.2.1 through 804.2.4.

804.2.1 Density. The minimum density of the interior trim shall be 20 pounds per cubic foot (320 kg/m3).

804.2.2 Thickness. The maximum thickness of the interior trim shall be 1/2 inch (12.7 mm) and the maximum width shall be 8 inches (203 mm).

804.2.3 Area limitation. The interior trim shall not constitute more than 10 percent of the specific wall or ceiling area to which it is attached.

804.2.4 Flame spread. The flame spread index shall not exceed 75 where tested in accordance with ASTM E 84 or UL 723. The smoke-developed index shall not be limited.
Exception: When the interior trim material has been tested as an interior finish in accordance with NFP A 286 and complies with the acceptance criteria in Section 803.1.2.1, it shall not be required to be tested for flame spread index in accordance with ASTM E 84 or
UL 723.

804.3 New interior floor finish. New interior floor finish and floor covering materials in new and existing buildings shall comply with Sections 804.3.1 through 804.3.3.2.
Exception: Floor finishes and coverings of a traditional type, such as wood, vinyl, linoleum or terrazzo, and resilient floor covering materials that are not comprised of fibers.

804.3.1 Classification. Interior floor finish and floor covering materials required by Section 804.3.3.2 to be of Class I or II material s shall be classified in accordance with NFPA 253. The classification referred to herein corresponds to the classifications determined by NFPA 253 as follows: Class I, 0.45 watts/cm2 or greater; Class II, 0.22 watts/cm2 or greater.

804.3.2 Testing and identification. Interior floor finish and floor covering materials shall be tested by an approved agency in accordance with NFP A 253 and identified by a hang tag or other suitable method so as to identify the manufacturer or supplier and style, and shall indicate the interior floor finish or floor covering classification according to Section 804.3.1. Carpet-type floor coverings shall be tested as proposed for use, including underlayment. Test reports confirming the information provided in the manufacture's product identification shall be furnished to the fire code official upon request.

804.3.3 Interior floor finish requirements. New interior floor coverings materials shall comply with Sections 804.3.3.1 and 804.3.3.2, and interior floor finish materials shall comply with Section 804.3.1.

804.3.3.1 Pill test. In all occupancies, new floor covering materials shall comply with the requirements of the DOC FF-1 "pill test" (CPSC 16 CFR Part 1630) or of ASTMD 2859.

804.3.3.2 Minimum critical radiant flux. In all occupancies, new interior floor finish and floor covering materials in enclosures for stairways and ramps, exit passageways, conidors and rooms or spaces not separated from corridors by full-height partitions extending from the floor to the underside of the ceiling shall withstand a minimum critical radiant flux. The minimum critical radiant flux shall not be less than Class I in Groups 1-1, 1-2 and 1-3 and not less than Class II in Groups A, B, H, 1-4, M, R-I, R-2 and S.
Exception: Where a building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2, Class II materials shall be permitted in any area where Class I materials are required and materials complying with DOC FF-1 "pill test" (CPSC 16 CFR Part 1630) or with ASTM D 2859 shall be permitted in any area where Class II materials are required.

804.4 Interior floor-wall base. Interior floor-wall base that is 6 inches (152 mm) or less in height shall be tested in accordance with NFPA 253 and shall not be less than Class II. Where a Class I floor finish is required, the floor-wall base shall be Class I. The classification referred to herein corresponds to the classifications determined by NFPA 253 as follows: Class I, 0.45 watt/cm2 or greater; Class II, 0.22 watts/cm2 or greater.
Exception: Interior hirn materials that comply with Section 804.1.

SECTION 1006

[B] 1006.1 Illumination required. The means of egress, including the exit discharge, shall be illuminated at all times the building space served by the means of egress is occupied.
Exceptions:
1. Occupancies in Group U.
2. Aisle accessways in Group A.
3. Dwelling units and sleeping units in Groups R-l, R-2 and R-3.
4. Sleeping units of Group I, R-2.1 and R-4 occupancies.

[B] 1006.2 Illumination level. The means of egress i1lumination level shall not be less than 1 footcandle (11 lux) at the walking surface.
Exception: For auditoriums, theaters, concert or opera halls and similar assembly occupancies, the illumination at the walking surface is permitted to be reduced during per-formances to not less than 0.2 footcandle (2.15 lux), provided that the required i1lumination is automatically restored upon activation of a premises' fire alarm system where such system is provided.

[B] 1006.3 Emergency power for illumination. The power supply for means of egress illumination shall normally be provided by the premises' electrical supply. In the event of power supply failure, an emergency electrical system shall automatically illuminate all of the following areas:
1. Aisles and unenclosed egress stairways in rooms and spaces that require two or more means of egress.
2. Corridors, interior exit stairways and ramps and exit passageways in buildings required to have two or more exits.
3. Exterior egress components at other than their levels of exit discharge until exit discharge is accomplished for buildings required to have two or more exits.
4. Interior exit discharge elements, as permitted in Section 1027.1, in buildings required to have two or more exits.
5. Exterior landings as required by Section 1008.1.6 for exit discharge doorways in buildings required to have two or more exits.

The emergency power system shall provide power for a duration of not less than 90 minutes and shall consist of storage batteries, unit equipment or an on-site generator. The installation of the emergency power system shall be in accordance with Section 604.
[B] 1006.3.1 Illumination level under emergency power. Emergency lighting facilities shall be arranged to provide initial illumination that is at least an average of 1 footcandle (11 lux) and a minimum at any point of 0.1 footcandle (1 lux) measured along the path of egress at floor level. Illumination levels shall be permitted to decline to 0.6 footcandle (6 lux) average and a minimum at any point of 0.06 footcandle (0.6 lux) at the end of the emergency lighting time duration. A maximum-to-minimum illumination uniformity ratio of 40 to 1 shall not be exceeded.

SECTION 1008

[B] 1008.1.9 Door operations. Except as specifically permitted by this section egress doors shall be readily openable
from the egress side without the use of a key or special knowledge or effort.
[B] 1008.1.9.1 Hardware. Door handles, pulls, latches, locks and other operating devices on doors required to be accessible by Chapter IIA or 11 B of the California Building Code shall not require tight grasping, tight pinching or twisting of the wrist to operate. These design requirements for door handles, pulls, latches, locks and other operating devices, intended for use on required means of egress doors in other than Group Rand M occupancies with an occupant load of 10 or less, shall comply with California Code of Regulations, Title 24, Part 12, SFM Standard 12-10-2.
[B] 1008.1.9.2 Hardware height. Door handles, pulls, latches, locks and other operating devices shall be installed 34 inches (864 mm) minimum and 48 inches (1219 mm) maximum above the finished floor. Locks used only for security purposes and not used for normal operation are permitted at any height.
Exception: Access doors or gates in barrier walls and fences protecting pools, spas and hot tubs shall be permitted to have operable parts of the release of
latch on self-latching devices at 54 inches (1370 mm) maximum above the finished floor or ground, provided the self-latching devices are not a1so selflocking
devices operated by means of a key, electronic opener or integral combination lock.

[B] 1008.1.9.3 Locks and latches. Locks and latches shall be permitted to prevent operation of doors where any of the following exists:
1. Places of detention or restraint.
2. In buildings in occupancy Group A having an occupant load of 300 or less, Groups B, F, M and S, and in places of religious worship, the main exterior door or doors are permitted to be equipped with key-operated locking devices from the egress side provided:
2.1. The locking device is readily distinguishable as locked;
2.2. A readily visible durable sign is posted on the egress side on or adjacent to the door stating: THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED. The sign shall be in letters I-inch (25 mm) high on a contrasting background; and
2.3. The use of the key-operated locking device is revokable by the fire code official for due cause.
3. Where egress doors are used in pairs, approved automatic flush bolts shall be permitted to be used, provided that the door leaf having the automatic flush bolts has no doorknob or surfacemounted hardware.
4. Doors from individual dwelling or sleeping units of Group R occupancies having an occupant load of 10 or less are permitted to be equipped with a night latch, dead bolt or security chain, provided such devices are open able from the inside without the use of a key or tool.
5. Fire doors after the minimum elevated temperature has disabled the unlatching mechanism in accordance with listed fire door test procedures.

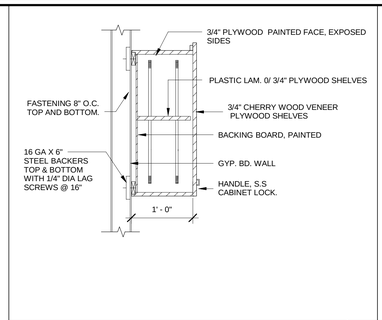
TABLE 803.3

TABLE 803.3
INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY[h]

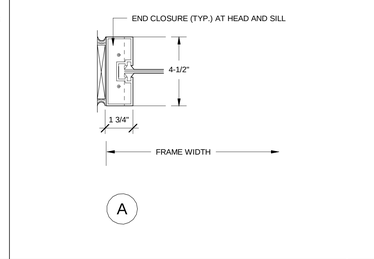
GROUP	SPRINKLERED[f]			NONSPRINKLERED		
	Interior exit stairways and interior exit ramps and exit passageways[a, b]	Corridors and enclosure for exit access stairways and exit access ramps	Rooms and enclosed spaces[c]	Interior exit stairways and interior exit ramps and exit passageways[a, b]	Corridors and enclosure for exit access stairways and exit access ramps	Rooms and enclosed spaces[c]
A-1 & A-2	B	B	C	A	A[e]	B[e]
A-3[f], A-4, A-5	B	B	C	A	A[e]	C
B, E, M, R-1, R-4	B	C	C	A	B	C
F	C	C	C	B	C	C
H	B	B	C[g]	A	A	B
I-2, *I-2.1*	B	B	B[b,i]	A	A	B
I-3	A	A[j]	*B*	*NP*	*NP*	*NP*
I-4	B	B	B[b,i]	A	A	B
R-2	C	C	C	B	B	C
R-2.1	*B*	*C*	*C*	*A*	*B*	*B*
R-3, *R-3.1*	C	C	C	C	C	C
S	C	C	C	B	B	C
U	No Restrictions			No Restrictions		

For SI: 1 inch = 25.4 mm, 1 square foot = 0.0929 m^2.
NP=Nor Permitted [SFM]

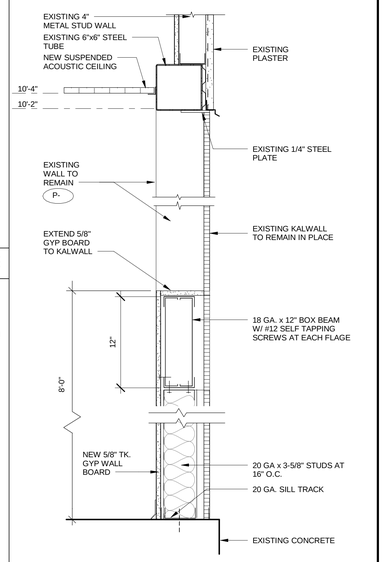
a. Class C interior finish materials shall be allowed for wainscoting or paneling of not more than 1,000 square feet of applied surface area in the grade lobby where applied directly to a noncombustible base or over furring strips applied to a noncombustible base and fireblocked as required by Section 803.11 of the *California Building Code*.
b. In exit enclosures of buildings less than three stories in height of other than Group I-3, Class B interior finish for nonsprinklered buildings and Class C for sprinklered buildings shall be permitted.
c. Requirements for rooms and enclosed spaces shall be based upon spaces enclosed by partitions. Where a fire-resistance rating is required for structural elements, the enclosing partitions shall extend from the floor to the ceiling. Partitions that do not comply with this shall be considered as enclosing spaces and the rooms or spaces on both sides shall be considered as one. In determining the applicable requirements for rooms and enclosed spaces, the specific occupancy thereof shall be the governing factor regardless of the group classification of the building or structure.
d. Lobby areas in Group A-1, A-2 and A-3 occupancies shall not be less than Class B materials.
e. Class C interior finish materials shall be allowed in Group A occupancies with an occupant load of 300 persons or less.
f. In places of religious worship, wood used for ornamental purposes, trusses, paneling or chancel furnishing shall be allowed.
g. Class B material is required where the building exceeds two stories.
h. Class C interior finish materials shall be allowed in administrative spaces.
i. Class C interior finish materials shall be allowed in rooms with a capacity of four persons or less.
j. Class B materials shall be allowed as wainscoting extending not more than 48 inches above the finished floor in corridors.
k. Finish materials as provided for in other sections of this code.
l. Applies when the vertical exits, exit passageways, corridors or rooms and spaces are protected by an approved automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2.



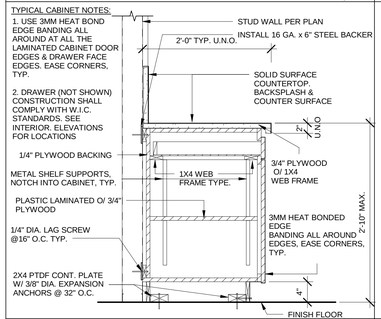
UPPER CABINET SCALE: 1" = 1'-0" 11



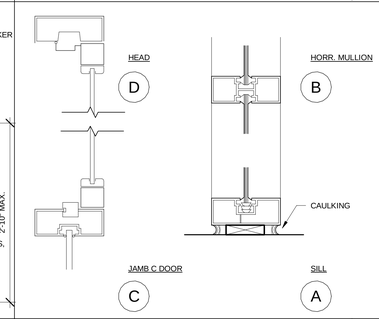
JAMB C STOREFRONT SCALE: 3" = 1'-0" 6



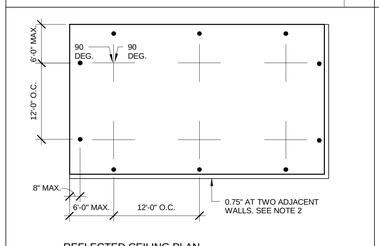
WALL SECT. AT GLAZ. SCALE:1 1/2" = 1'-0" 2



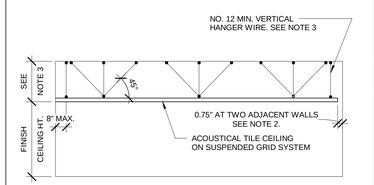
BASE CABINET SCALE: 1" = 1'-0" 12



INTERIOR STOREFRONT SCALE: 3" = 1'-0" 7



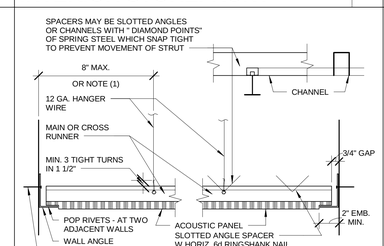
REFLECTED CEILING PLAN



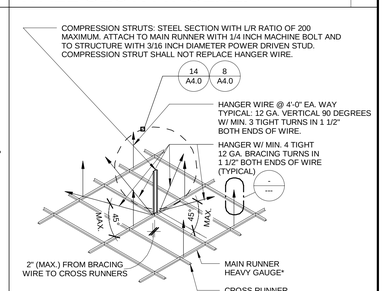
SECTION THROUGH ROOM

NOTE:
1. BRACING WIRES SECURED TO MAIN RUNNER WITHIN 2" OF THE CROSS RUNNER INTERSECTION AND SPLAYED 90 DEGREE FROM EACH OTHER AT AN ANGLE NOT EXCEEDING 45 DEGREE FROM THE PLANE OF THE CEILING.
2. IN EACH ORTHOGONAL HORIZONTAL DIRECTION, ONE EACH OF THE CEILING GRID SHALL BE ATTACHED TO A MINIMUM 2" WIDE CLOSURE ANGLE. THE OTHER END IN EACH HORIZONTAL DIRECTION SHALL HAVE A 0.75" CLEARANCE FROM THE WALL AND SHALL REST UPON AND BE FREE TO SLIDE ON A CLOSURE ANGLE.
3. WHEN THE DISTANCE BETWEEN THE STRUCTURAL DECK AND THE CEILING EXCEEDS 4', THE SPACING OF THE VERTICAL HANGERS SHALL NOT EXCEED 2' O.C. ALONG THE ENTIRE MEANS OF EGRESS SERVICING ON OCCUPANT LOAD OF 30 OR MORE, AND AT LOBBIES ACCESSORY TO A GROUP A OCCUPANCIES.

GRID SYSTEM SCALE: 1" = 1'-0" 14

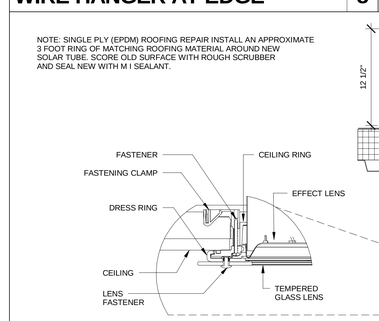


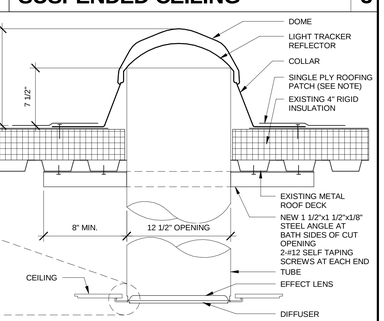
WIRE HANGER AT EDGE SCALE: 3" = 1'-0" 8



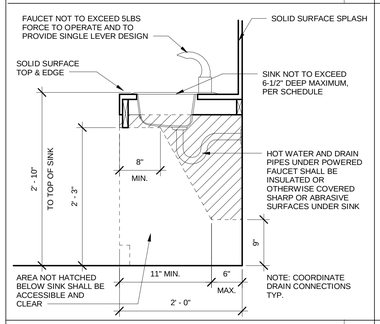
SUSPENDED CEILING SCALE: 3" = 1'-0" 3

NOTE: SINGLE PLY (EPDM) ROOFING REPAIR INSTALL AN APPROXIMATE 3 FOOT RING OF MATCHING ROOFING MATERIAL AROUND NEW SOLAR TUBE. SCORE OLD SURFACE WITH ROUGH SCRUBBER AND SEAL NEW WITH M I SEALANT.

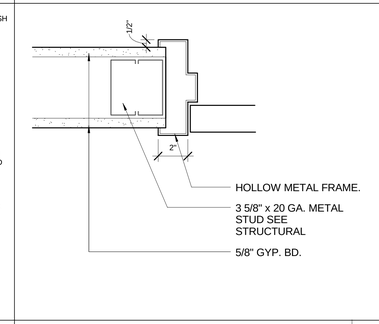




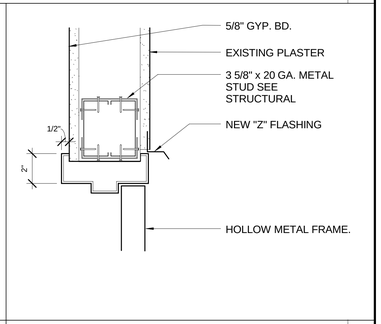
SOLAR TUBE DETAIL SCALE: 1 1/2" = 1'-0" 4



ACCESSIBLE SINK SCALE: 1" = 1'-0" 15



DOOR JAMB SCALE: 3" = 1'-0" 10



DOOR HEADER 5

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1511 Cota Ave. Long Beach, CA 90813 Tel. 562 - 912 - 7900

CITY OF COMMERCE
LIBRARY INTERIOR RENOVATION
2535 COMMERCE WAY, COMMERCE, CA 90040

No.	Date	Revision	By	Ck

Designer: MA
CAD Draft: -
Architect: LN
Engineer:
Client: COMMERCE
Date Issue: 10 - 25 - 16
Job Number: 2723

Client:

Consultant:

LICENSED ARCHITECT
Edward Lok Ng
C-16840
REN.11/30/17
STATE OF CALIFORNIA

- ACCESSIBILITY
- DETAILS & DOOR
- & WINDOW DETAILS

A4.0

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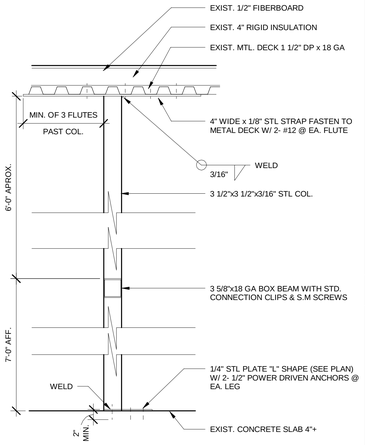
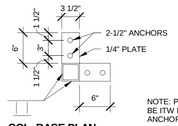


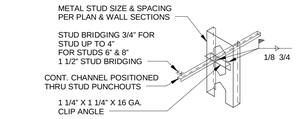
COL. SUPPORT @ CORNER



NOTE: POWER DRIVEN ANCHORS SHALL BE ITW RAMSET / REDHEAD SELF-DRILLING ANCHORS, I.C.C. ESR-2251

COL. BASE PLAN

STEEL COLUMN 12



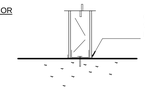
BRIDGING IS REQUIRED UNDER THE FOLLOWING CONDITIONS

A. WALLS UP TO 10FT. HIGH
   1. SUPPORTING VERTICAL (AXIAL) LOAD: 2 ROWS OF BRIDGING 1/3 SPAN APART
   2. WIND LOAD ONLY: ONE ROW OF BRIDGING @ MIDHEIGHT.

B. WALL OVER 10FT. HIGH
   1. SUPPORTING VERTICAL (AXIAL) LOAD: BRIDGING ROWS SPACED 3'-4" O.C. MAX.
   2. WIND LOAD ONLY: BRIDGING ROWS SPACED 5'-0" O.C. MAX.

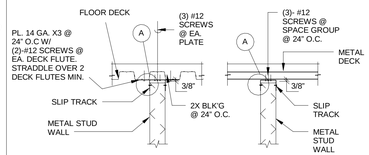
STUD WALL BRIDGING DETAIL 6

TYPICAL EXTERIOR



TYPICAL INTERIOR

TYPICAL STEEL STUD BASE 1



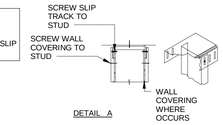
WALL PARALLEL TO DECK WALL PERPENDICULAR TO DECK

NOTES:

1. ALL STUDS SHALL BE 3 5/8" x 20 GA (CEMCO SYSTEM OR EQUIVALENT)
2. ALL STUD CONSTRUCTIONS SHALL CONFORM TO ICC-ES ESR-3016 (CEMCO OR EQUIVALENT)
3. STUDS ARE SPACED 16" O.C.
4. ALL STUD WALLS WITH ONLY PLASTER FINISH OR THE COMBINATIONS OF GYPSUM BOARD FINISH AND PLASTER FINISH, THE DESIGN IS BASED ON LATERAL LOADS OF 5 P.S.F.
5. STUD FLANGES LATERAL SUPPORTS PER DET. 4 THRU 6

INTERIOR METAL STUD PROP. 2

NOTE:
1. DO NOT ATTACH WALL COVERING TO SLIP TRACK.



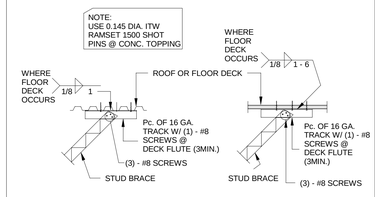
DETAIL A

MINIMUM ATTACHMENT OF APPROVED WALL COVERINGS TO PROVIDE CONTINUOUS ADEQUATE LATERAL SUPPORT FOR STUD FLANGES	
WALL COVERING	ATTACHMENT
APPROVED LATHS FOR PLASTER	NO. 8 X 3/8" HEAD SHEET METAL SCREWS (1/4" PENETRATION) SPACED PER TABLE NO. 25-C U.B.C.
SINGLE-PLY GYPSUM WALLBOARD AND/OR GYPSUM LATH	ATTACHMENT PER TABLE NO. 25-G U.B.C
TWO-PLY GYPSUM WALLBOARD	ATTACHMENT PER TABLE NO. 25-H U.B.C.
PLYWOOD	NO. 6 PHILLIPS BUGLE HEAD SCREWS (1/4" PENETRATION) SPACED PER TABLE NO. 25-G U.B.C.

NOTE: WHERE WALL COVERINGS AND/OR BRACING AT MAXIMUM SPACINGS INDICATED, DO NOT OCCUR, ALLOWABLE COMPRESSIVE STRESS AND RESTING MOMENT MUST BE REDUCED IN NACCORDANCE WITH U.B.C. STANDARD NO. 27-9.

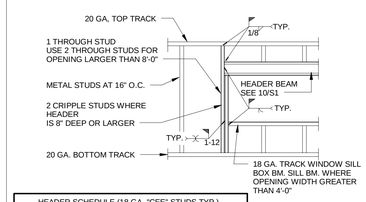
MTL STD WALL CVR & ATTACH. 3

NOTE:
USE 0.145 DIA. ITW RAMSET 1500 SHOT PINS @ CONC. TOPPING



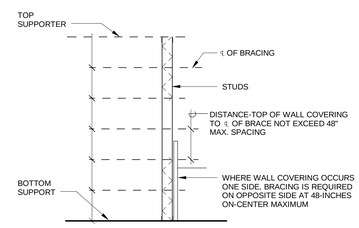
⊥ TO DECK ∥ TO DECK

TYP. NON BEARING WALL CLG. 8



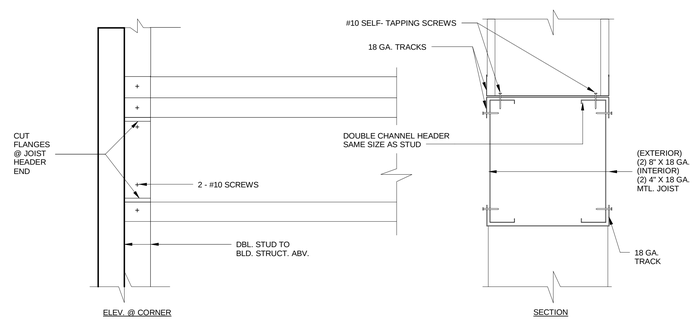
HEADER SCHEDULE (18 GA. "CEE" STUDS TYP.)			
DEPTH	MAX. OPENING	DEPTH	MAX. OPENING
4"	4'-0"	10"	10'-0"
6"	6'-0"	12"	12'-0"
8"	8'-0"		

TYP. FRAMING FOR OPENING 9



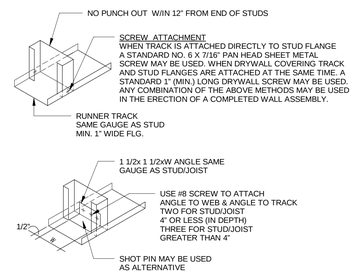
WALL SECTION

WALL BRACING DETAIL 4



ELEV. @ CORNER SECTION

TYP. STEEL STUD HDR. 10



END WEB STIFFENER STD 5

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CITY OF COMMERCE
LIBRARY INTERIOR RENOVATION
2535 COMMERCE WAY, COMMERCE, CA 90040

No.	Date	Revision	By	Ck

Designer: -
CAD Draft: -
Architect: LN
Engineer:
Client: COMMERCE
Date Issue: 10 - 25 - 16
Job Number: 2723

Client:

Consultant:

LICENSED ARCHITECT
Edward Lok Ng
C-16840
REN.11/30/17
STATE OF CALIFORNIA

- STRUCTURAL DETAILS
-

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SECTION 16000 - ELECTRICAL

PART 1 - GENERAL

1.1 SCOPE: PROVIDE ALL ELECTRICAL WORK FOR A COMPLETE AND OPERABLE SYSTEM AS SHOWN ON THE DRAWINGS AND AS SPECIFIED IN THIS SECTION INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
- A. SITE INVESTIGATIONS PRIOR TO BIDDING TO ESTABLISH EXISTING CONDITIONS.
- B. BRANCH CIRCUIT-WIRING SYSTEM INCLUDING WIRING DEVICES, WIRING, CONDUIT, PULL BOXES AND EQUIPMENT CONNECTIONS.
- C. LIGHTING SYSTEM INCLUDING LIGHT FIXTURES, LAMPS, BALLASTS, AND REQUIRED MOUNTING HARDWARE.
- D. ADJUSTMENT AND TEST OF THE ELECTRICAL WORK.
- E. GUARANTEE.

1.2 QUALITY ASSURANCE:
- A. ALL PRODUCTS AND EQUIPMENT HEREIN SPECIFIED OR INDICATED ON THE DRAWINGS SHALL BE NEW WITH UL LABEL AND IN COMPLIANCE WITH THE CALIFORNIA ELECTRICAL CODE, STATE AND LOCAL CODES. MATERIALS FOR SIMILAR USE SHALL BE OF THE SAME TYPE AND MANUFACTURE.
- B. ALL WORK AND MATERIALS SHALL BE INSTALLED PER THE GOVERNING AUTHORITIES. NOTHING IN THE PLANS OR SPECIFICATIONS SHALL BE DEEMED AS PERMISSION TO VIOLATE THESE CODES OR AUTHORITIES AND THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY WORK, WHICH IS NOT ACCEPTED. VIOLATIONS SHOWN ON THE PLANS ARE TO BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER BEFORE WORK IS DONE.

1.3 SITE VISITATIONS: PRIOR TO THE SUBMISSION OF THE BID, THE CONTRACTOR SHALL VISIT THE SITE AND MAKE A THOROUGH EXAMINATION OF THE EXISTING CONDITIONS AND THEREBY INCLUDE ALLOWANCES FOR THIS WORK IN THIS BID.

1.4 PERMITS AND LICENSES: CONTRACTOR SHALL PAY FOR AND OBTAIN ALL NECESSARY PERMITS, INSPECTIONS, INSURANCE AND LICENSES REQUIRED FOR THE ELECTRICAL WORK. DELIVER CERTIFICATES FOR ALL PERMITS AND INSPECTIONS TO THE ARCHITECT.

1.5 COORDINATION: CONTRACTOR TO COORDINATE THE ELECTRICAL WORK WITH OTHER TRADES. REVIEW DRAWINGS AND SPECIFICATIONS OF ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS PRIOR TO INSTALLATION OF THE ELECTRICAL SYSTEM. VERIFY SPACE, VENTILATION AND CLEARANCES REQUIRED TO INSTALL ELECTRICAL EQUIPMENT. EXACT LOCATIONS OF LIGHTS AND WIRING DEVICES ARE SHOWN ON ARCHITECTURAL DRAWINGS.

1.6 SUBMITTALS: WITHIN THIRTY (30) DAYS AFTER AWARD OF CONTRACT, SUBMIT TO THE ARCHITECT SIX (6) SETS OF SHOP DRAWINGS CONSISTING OF PRODUCT DATA SHEETS FOR LIGHT FIXTURES, WIRING DEVICES, AND MATERIAL LIST. SUBMITTALS NOT TO INCLUDE SUBSTITUTIONS OR DEVIATIONS FROM THE MATERIALS OR METHODS SPECIFIED UNLESS PRIOR APPROVAL HAS BEEN GIVEN IN WRITING. MAKE ALL SUBMITTALS AT ONE TIME IN BOOKLET FORM.

1.7 SUBSTITUTIONS: WHERE MANUFACTURER'S NAME AND CATALOG NUMBER ARE CALLED OUT, THE PHRASE "OR APPROVED EQUAL" CAN BE ASSUMED EXCEPT THE BURDEN OF PROVING EQUALITY IS ON THE BIDDER.

1.8 DRAWINGS: DURING PROGRESS OF WORK MAINTAIN A RECORD OF CHANGES MADE ON PLANS AND "AS-BUILT" LOCATIONS OF BURIED CONDUITS AND DUCTS. ON COMPLETION, PRESENT A PROFESSIONALLY DONE REPRODUCIBLE DRAWING TO THE ARCHITECT.

1.9 VERIFICATION OF DIMENSIONS: ALL SCALED AND FIGURED DIMENSIONS ARE APPROXIMATE AND ARE GIVEN FOR ESTIMATING PURPOSES ONLY. WHERE APPARATUS AND EQUIPMENT HAVE BEEN TAKEN FROM TYPICAL EQUIPMENT OF THE CLASS INDICATED AND BEFORE PROCEEDING WITH THE WORK, THE CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY ALL DIMENSIONS AND SIZES AND SHALL ASSUME ALL RESPONSIBILITY FOR THE FITTING OF HIS MATERIALS AND EQUIPMENT TO OTHER PARTS OF THE EQUIPMENT AND TO THE STRUCTURE.

1.10 LOCATION: PRIOR TO ROUGH-IN, MINOR ADJUSTMENTS TO OUTLET LOCATIONS MAY BE MADE WITHOUT ADDITIONAL COMPENSATION.

1.11 PROTECTION OF FINISH: FULLY PROTECT ALL FINISHED PARTS DURING THE PROGRESS OF THE WORK AND UNTIL FINAL COMPLETION.

1.12 GUARANTEE: ALL ELECTRICAL WORK AND EQUIPMENT (EXCEPT LAMPS) SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF ACCEPTANCE ON CONTRACTOR'S LETTERHEAD AND TURNED OVER TO THE OWNER AT THE COMPLETION AND FINAL ACCEPTANCE OF THE JOB.

PART 2 - PRODUCTS

2.1 CONDUIT: CONDUIT SHALL BE RIGID STEEL GALVANIZED IMC FOR UNDERGROUND, EXPOSED UP TO +5'-0" OR IN DAMP LOCATIONS. NO RUNNING THREADS WILL BE PERMITTED. GALVANIZED EMT SHALL BE USED IN DRY CONCEALED LOCATIONS AND EXPOSED ABOVE +5'-0". EMT CONNECTORS SHALL BE WATERTIGHT COMPRESSION TYPE. GALVANIZED FLEXIBLE CONDUIT SHALL BE USED ONLY FOR MOTOR AND FIXTURE CONNECTIONS IN LENGTHS NOT TO EXCEED 6'. CONDUITS PENETRATING THE ROOF ARE TO BE FLASHED AND COUNTER FLASHED. PVC SCHEDULE 40 MAY BE USED UNDER FLOOR SLABS OR UNDERGROUND WITH GROUND WIRE. PVC UNDERGROUND TO HAVE 24 INCH COVER. INSTALL FITTINGS, SPECIAL DEVICES AND MATERIAL, WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE CONDUIT SYSTEM.

2.2 CONDUCTORS: CONDUCTORS SHALL BE 600 VOLT INSULATION TYPE THHN/THWN COPPER. CONDUCTORS AWG #10 AND SMALLER SHALL BE SOLID, AWG #8 AND LARGER TO BE STRANDED.

2.3 SPLICES: SPLICES ON CONDUCTORS #8 OR SMALLER SHALL BE SKOTCHLOC SPRING CONNECTORS AND FOR LARGER SIZE CABLES USE SOLDERLESS CONNECTORS.

2.4 LIGHTING FIXTURES: FURNISH AND INSTALL COMPLETE WITH LAMPS, BALLASTS AND REQUIRED MOUNTING HARDWARE. PRIOR TO ORDERING FIXTURES, VERIFY MOUNTING METHODS AND FINISHES.

2.5 LAMPS: LAMPS SHALL BE AS SHOWN ON THE FIXTURE SCHEDULE. PROVIDE LAMPS SUITABLE FOR THE USE INTENDED. METAL HALIDE LAMPS TO BE COATED. PROVIDE MINIMUM 100 HOURS OF "BURN-IN" OF ALL FLUORESCENT LAMPS.

PART 3 - EXECUTION

3.1 GENERAL:
- A. THE ELECTRICAL DRAWINGS, WHICH CONSTITUTE AN INTEGRAL PART OF THIS CONTRACT, SERVE AS THE WORKING DRAWINGS AND INDICATE THE GENERAL LAYOUT OF THE ELECTRICAL SYSTEMS. FIELD VERIFICATIONS OF LOCATIONS ON PLANS IS DIRECTED BY FIELD CONDITIONS. CHECK THE ARCHITECTURAL, STRUCTURAL AND MECHANICAL PLANS TO AVERT POSSIBLE INSTALLATION CONFLICTS AND INCLUDE ALL RESULTING COST IN THE BID.
- B. DISCREPANCIES BETWEEN DIFFERENT PLANS, BETWEEN PLANS AND ACTUAL FIELD CONDITIONS, OR BETWEEN PLANS AND SPECIFICATIONS SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER FOR CLARIFICATION OR DECISION. APPURTENANCES AND WIRING NOT SPECIFICALLY INDICATED OR REFERRED TO, BUT WHICH ARE COMMON TO COMPLETE AND OPERABLE ELECTRICAL SYSTEMS, SHALL BE INCLUDED IN THE BID.
- C. EACH EMPTY CONDUIT SHALL INCLUDE A PULL CORD. ALL PULL CORDS SHALL HAVE A MINIMUM DIAMETER OF 1/4" AND A MINIMUM AVERAGE TENSILE STRENGTH OF 1100 POUNDS. IT SHALL BE YELLOW IN COLOR. A CONTRASTING TRACER COLOR MAY BE INCLUDED TO IDENTIFY THE MANUFACTURER. FLAT BRAID IS NOT ACCEPTABLE.

3.2 INSTALLATION: INSTALLATION OF MATERIALS AND EQUIPMENT SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, INSTRUCTIONS, INDUSTRY STANDARDS, AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN. PROVIDE ALL MOUNTING FACILITIES FOR SECURING OR HANGING FIXTURES, EQUIPMENT AND OUTLETS TO THE SATISFACTION OF THE ENGINEER. DETAILS SHOWN ON THE PLANS ARE FOR THE PURPOSE OF ESTABLISHING THE EXTENT AND GENERAL METHODS REQUIRED. PROVIDE ALL SLEEVES, INSERTS, EXPANSION JOINTS, VIBRATION FITTING, ETC.
- A. PROVIDE STORAGE FACILITIES AND PROTECT ALL WORK, MATERIALS AND EQUIPMENT FROM DAMAGE DURING PROCESS OF WORK. MATERIALS AND EQUIPMENT SHALL NOT BE STORED EXPOSED TO WEATHER. REPLACE ALL DAMAGED OR DEFECTIVE WORK, MATERIALS AND EQUIPMENT WITHOUT ADDITIONAL COST TO THE OWNER.

3.3 CONDUIT AND WIRING: ALL CONDUIT AND WIRING SHALL BE INSTALLED CONCEALED IN WALLS, ABOVE CEILINGS AND BELOW FLOOR SLABS OR EXPOSED IN ACCORDANCE WITH APPLICABLE REGULATIONS AND THE ELECTRICAL DRAWINGS. ALL PENETRATIONS OF FIRE-RATED WALLS OR CEILINGS TO BE COORDINATED WITH OWNER. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. EXACT ROUTING AND LOCATION OF THE EQUIPMENT TO BE DETERMINED IN THE FIELD.

3.4 EXTERIOR EQUIPMENT: ALL EQUIPMENT AND WIRING OUTSIDE TO BE WEATHERPROOF AND TAMPERPROOF.

3.5 MOISTURE PROTECTION: WHERE REQUIRED BY REGULATIONS, ALL PANELBOARDS, MAIN SWITCHBOARDS AND ELECTRICAL DEVICES IN THE SPRAY RADIUS OF SPRINKLERS SHALL BE INSTALLED WITH WEATHERPROOF ENCLOSURES IN COMPLIANCE WITH THESE REGULATIONS.

3.6 GROUNDING: ALL METALLIC CONDUITS, SUPPORTS AND ENCLOSURES SHALL BE GROUNDED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE. GROUNDING BUSHINGS SHALL BE USED WHEREVER CONDUITS ARE REQUIRED TO BE GROUNDED.

3.7 TESTING: ALL NEW CIRCUITS SHALL BE TESTED FOR SHORT AND OPEN CIRCUIT TO GROUND WITH A MEGGAR. RESISTANCE TO GROUND SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE. FURNISH ALL NECESSARY LABOR, INSTRUMENTS AND EQUIPMENT REQUIRED FOR MAKING TESTS TO DEMONSTRATE THAT THE OPERATION OF THE SYSTEM IS IN ACCORDANCE WITH THE INTENT OF THE CONTRACT DOCUMENTS. ALSO PERFORM A COMPLETE "IN SERVICE" OPERATION OF THE ENTIRE ELECTRICAL SYSTEM TO THE FULL SATISFACTION OF THE OWNER.

END OF SECTION

ELECTRICAL SYMBOLS

- WIRING/CONDUIT CONCEALED IN OR ABOVE CEILING
- WIRING/CONDUIT CONCEALED IN OR UNDER FLR.
- HOMERUN TO PANELBOARD CIRCUITS AS NOTED
- 2–#10 & 1#10 GND, 3/4" CONDUIT
- PANELBOARD
- A / 144 → FIXTURE TYPE TOTAL NUMBER OF WATTS

CEILING | WALL | FLOOR

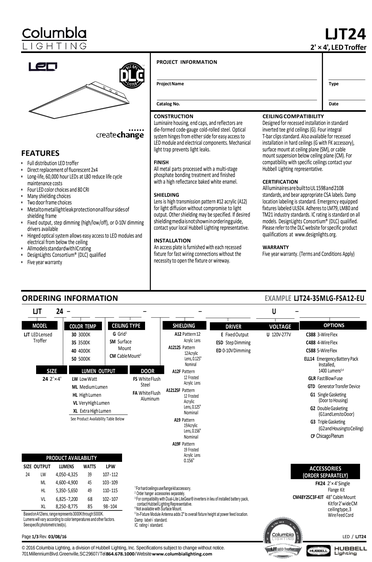
- DUPLEX RECEPTACLE 120V 15 AMP, +18" UNO
- DOUBLE DUPLEX RECEPTACLE 120V 15 AMP, +18" UNO
- TELEPHONE OUTLET, 2–GANG BOX W/ 2–HOLE COVER & 3/4" CO TO ACCESSIBLE CEILING, +18" UNO
- TELEPHONE/DATA OUTLET, 2–GANG BOX W/ 4–HOLE COVER & 3/4" CO TO ACCESSIBLE CEILING, +18" UNO
- DATA OUTLET, 2–GANG BOX W/ 2–HOLE COVER & 3/4" CO TO ACCESSIBLE CEILING, +18" UNO
- JUNCTION BOX (J–BOX)
- ab — WALL MOUNTED OCCUPANCY SENSOR +42" (ON/OFF/AUTO) ab – INDICATES DUAL RELAY FOR BI–LEVEL SWITCHING
- OS — CEILING MOUNTED OCCUPANCY SENSOR WITH WALL MOUNTED OVERRIDE SWITCH, +42" AND CORRESPONDING POWER PACK
- ISOLATED GROUND RECEPTACLE 120V, 1–PHASE, 15 AMP, +18" UNO
- SPECIAL RECEPTACLE SIZE AS NOTED

ABBREVIATIONS

A, AMP	AMPERE(S)
AF	AMP–FUSE
AS	AMP–SWITCH
C.B.	CIRCUIT BREAKER
CIRC.	CIRCUIT
C.O.	CONDUIT ONLY
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
J	JUNCTION
KVA	KILOVOLT–AMP
KW	KILOWATT
L.C.L.	LONG CONTINUOUS LOAD
L.O.	LUGS ONLY
N.T.S.	NOT TO SCALE
PC	PHOTOCELL CONTROL
P.O.C.	POINT OF CONNECTION
PROVIDE	FURNISH, INSTALL AND CONNECT
UNO	UNLESS NOTED OTHERWISE
V	VOLT(S)
VA	VOLT–AMP(S)
W	WATT(S)
WP	WEATHERPROOF

FIXTURE SCHEDULE

TYPE	LAMPS	VOLTS	DESCRIPTION	MANUFACTURER (OR EQUAL)
C / 39	L.E.D. 4050–4325 LUMENS 3500K	120–277	2'x4' LED RECESSED TROFFER, PRISMATIC LENS 0–10V DIMMING "EM" – INDICATES EMERGENCY BATTERY BACKUP 1400 LUMENS OUTPUT.	COLUMBIA LIGHTING LJT24–35–LW–G–FS–A12 –ED–U MATCH EXISTING. –ELL14



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CITY OF COMMERCE
LIBRARY PLAZA RENOVATION
2535 COMMERCE WAY, COMMERCE, CA 90040

No.	Date	Revision	By	Ck
1	10-17-2016	PLAN CHECK SUBMITTAL	TL	TL

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Job Number: #

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Consultant:
THOMAS LEW ASSOCIATES

REGISTERED PROFESSIONAL ENGINEER
THOMAS K. LEW
No. 015593
Exp.12-31-2017
DATE SIGNED: 10-17-2016
ELECTRICAL
STATE OF CALIFORNIA

- SYMBOL LIST,
- FIXTURE SCHEDULE
- SPECIFICATIONS

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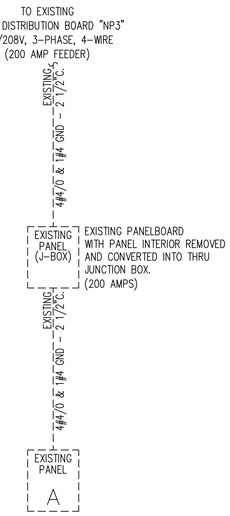

PARTIAL SINGLE LINE DIAGRAM

SCALE: NONE

PANEL: **"A" (EXISTING)** PANEL VOLTAGE: 120/208V, 3-PH, 4-WIRE CIRCUIT CODE: N : NON-CONTINUOUS
LOCATION: OFFICE AREA BUS: 225A L : LONG-CONTINUOUS
MOUNTING: RECESSED MAIN: LUGS ONLY R: DEMANDABLE RECEPTACLES
AIC RATING: MATCH EXISTING K: KITCHEN

NO CKT	VA LOAD A	VA LOAD B	VA LOAD C	LOAD DESCRIPTION	CO DE	TYPE CNT. M	TYPE CNT. R	TYPE CNT. L	C.B. TR	C.B. P	BUS A	BUS B	BUS C	C.B. TR	C.B. P	TYPE CNT. L	TYPE CNT. R	TYPE CNT. M	CO DE	LOAD DESCRIPTION	VA LOAD A	VA LOAD B	VA LOAD C	CKT NO
1	540			EXIST RECEPT	N		3		20	1	X			20	1		3		N	EXIST RECEPT	540			2
3		540		EXIST RECEPT	N		3		20	1		X		20	1		3		N	EXIST RECEPT		540		4
5			540	EXIST RECEPT	N		3		20	1			X	20	1		3		N	EXIST RECEPT			540	6
7	500			EXIST REFRIGERATOR	N				20	1	X			30	2				N	EXIST COPIER	500			8
9		500		EXIST LIGHTS	L				20	1		X		--	--				N	-----		500		10
11			500	EXIST LIGHTS	L				20	1			X	20	1				L	EXIST NL			500	12
13	500			EXIST LIGHTS	L				20	1	X			20	1		3		N	EXIST ROOF GFCI RECEPT	540			14
15		500		EXIST LOAD	N				20	1		X		20	1				N	EXIST WATER HEATER		500		16
17			500	EXIST SLIDING DOOR	N				20	1			X	20	1				N	EXIST LOAD			500	18
19	500			EXIST LOAD	N				20	1	X			20	1				N	EXIST LOAD	500			20
21		500		EXIST LOAD	N				20	1		X		20	1				N	EXIST LOAD		500		22
23			500	EXIST LOAD	N				20	1			X	15	1				N	EXIST LOAD			500	24
25	720			NEW OPEN OFFICE REC.	R		4		20	1	X			20	1			1	N	NEW BREAKRM REFRIG	500			26
27		720		NEW OPEN OFFICE REC.	R		4		20	1		X		20	1			1	N	NEW BREAKRM GFCI		500		28
29			900	NEW OFFICE RECEPT.	R		5		20	1			X	20	1			1	N	NEW BREAKRM G.D.			500	30
31	900			NEW OFFICE RECEPT.	R		5		20	1	X			20	1			1	N	NEW BREAKRM GFCI	500			32
33		720		NEW OPEN OFFICE REC.	R		4		20	1		X		20	1			1	N	NEW BREAKRM MICROWAVE		500		34
35			900	NEW OPEN OFFICE REC.	R		5		20	1			X	20	1			1	N	NEW BREAKRM GFCI			500	36
37				SPACE	N						X								N	SPACE				38
39				SPACE	N							X							N	SPACE				40
41				SPACE	N								X						N	SPACE				42
	3660	3480	3840	PHASE TOTALS																PHASE TOTALS	3080	3040	3040	

Total Phase A:	6740
Total Phase B:	6520
Total Phase C:	6880

CONNECTED VA (CODE N):	13280
CONNECTED VA (CODE L):	2000
CONNECTED VA (CODE R):	4860
CONNECTED VA (CODE K):	
TOTAL CONNECTED KVA:	20.1
LCL KVA (25% OF CODE L):	0.5
DEMAND KVA (CODE R):	
DEMAND KVA (CODE K):	
TOTAL ADJUSTED KVA (W/LCL AND DEMAND):	20.6
TOTAL PANEL AMPS:	55.9
ADJUSTED AMPS W/LCL AND DEMAND:	57.3

PROVIDE LISTED HANDLE TIES AS REQUIRED FOR MULTIWIRE BRANCH CIRCUITS, PER N.E.C. 210.4

MATCH EXISTING CIRCUIT BREAKER TYPE.

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CITY OF COMMERCE
LIBRARY PLAZA RENOVATION
2535 COMMERCE WAY, COMMERCE, CA 90040

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THOMAS K. LAW
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STATE OF CALIFORNIA

- SINGLE LINE DIAGRAM
- PANEL SCHEDULE
-

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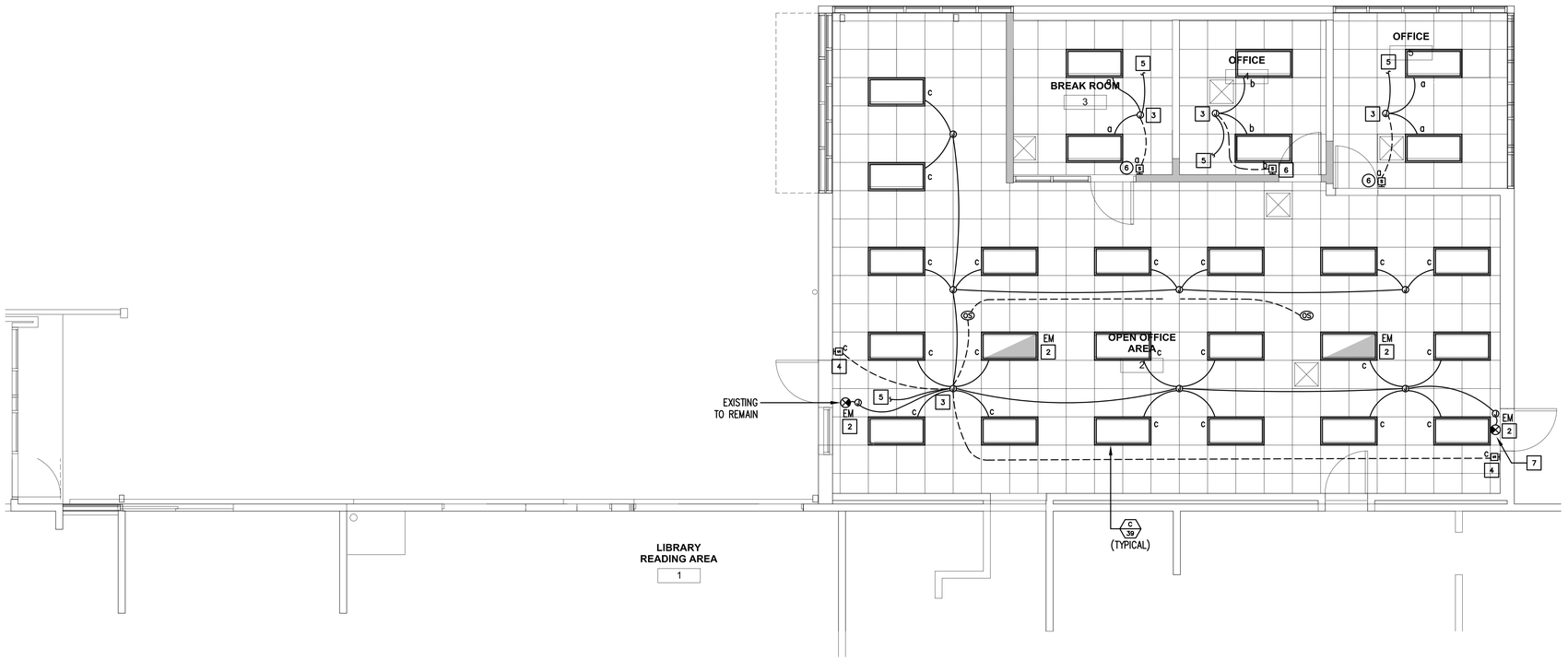
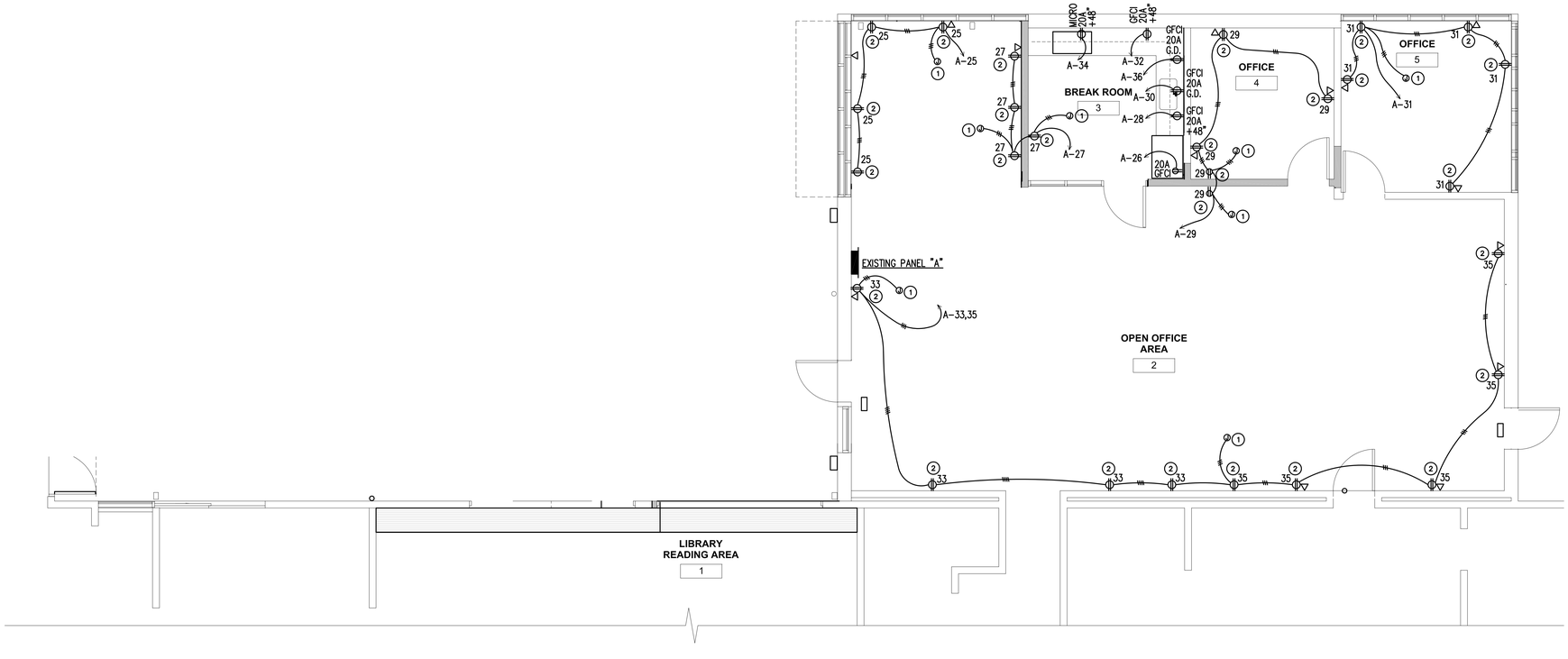


PLAN KEYED NOTES:

1. NOT USED.
2. EMERGENCY LIGHTING FIXTURE. PROVIDE SEPARATE HOT LEAD TO FIXTURE, BYPASSING SWTCHING AND ALL LIGHTING CONTROL. COORDINATE AS REQUIRED.
3. PROVIDE DIMMER – OCCUPANCY SENSOR – FOR ROOM LIGHTING CONTROL.
   WATTSTOPPER DIGITAL LIGHTING MANAGEMENT (DLM) DIMMING ROOM CONTROLLER (SINGLE RELAY #LMRC-211/TRIPLE RELAY #LMRC-213),
   WATTSTOPPER DIGITAL DUAL TECHNOLOGY OCCUPANCY SENSOR AS SHOWN ON PLAN (CEILING MOUNT #LMDC-100, WALL MOUNT #LMDW-101),
   WATTSTOPPER DIGITAL DIMMING WALL SWITCH #LMDM-101
   OR EQUAL LIGHTING CONTROL SYSTEM. COORDINATE AS REQUIRED.
4. LOW VOLTAGE DIGITAL DIMMING WALL SWITCH, WATTSTOPPER #LMDM-101 (OR EQUAL). CONNECT AS REQUIRED TO WATTSTOPPER DLM DIMMING ROOM CONTROLLER. COORDINATE AS REQUIRED.
5. RE-CONNECT TO EXISTING LIGHTING CIRCUIT CURRENTLY FEEDING OFFICE AREA LIGHTS. EXISTING LIGHTS ARE BEING REPLACE ON A ONE-FOR-ONE BASIS. EXISTING LIGHTS BEING REMOVED ARE 4-LAMP FLUORESCENT FIXTURES, AND NEW FIXTURES ARE LED FIXTURES, THUS LOAD ON CIRCUIT IS REDUCED. COORDINATE CIRCUIT NUMBER IN FIELD.
6. COMBINATION LOW VOLTAGE DIGITAL DIMMING WALL SWITCH AND DUAL TECHNOLOGY OCCUPANCY SENSOR, WATTSTOPPER #LMDW-102 (OR EQUAL). CONNECT AS REQUIRED TO WATTSTOPPER DLM DIMMING ROOM CONTROLLER. COORDINATE AS REQUIRED.
7. RELOCATE EXISTING EXIT SIGN (WITH BUILT-IN BATTERY BACKUP) FROM DEMOLISHED EXIT CORRIDOR AND RE-INSTALL AT NORTH EXIT DOOR. COORDINATE AS REQUIRED.

LIGHTING PLAN

SCALE: 1/4" = 1'-0" | 2



PLAN KEYED NOTES:

1. PROVIDE DIGITAL PLUG LOAD ROOM CONTROLLER FOR CONTROL OF PLUG LOAD.
   WATTSTOPPER LMPL-101 DIGITAL PLUG LOAD ROOM CONTROLLER.
   INTERCONNECT AS REQUIRED WITH LOW VOLTAGE CABLE TO DIGITAL LIGHT MANAGEMENT (DLM) ROOM CONTROLLER.
   CONNECT AS REQUIRED TO CONTROLLED RECEPTACLE (1/2" CONDUIT, 3#12 CONDUCTORS). COORDINATE AS REQUIRED.
2. RECEPTACLE SHALL BE SPLIT WIRED, WITH ONE CONTROLLED AND ONE UNCONTROLLED RECEPTACLE. PROVIDE MARKING TO IDENTIFY CONTROLLED RECEPTACLE. SEE KEYED NOTE #2 ABOVE. COORDINATE AS REQUIRED.

POWER PLAN

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

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ELECTRICAL
STATE OF CALIFORNIA

- LIGHTING PLAN
- POWER PLAN
-

E3.0

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 7 of 7)
Project Name: LIBRARY PLAZA RENOVATION	Date Prepared: 09-26-2016

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

Documentation Author Name:	THOMAS LEW ASSOCIATES	Documentation Author Signature:	Thomas Lew
Company:	THOMAS LEW ASSOCIATES	Signature Date:	09-26-2016
Address:	19521 REINHART AVE.	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	CARSON, CA 90746	Phone:	(949) 302-1820

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	THOMAS LEW ASSOCIATES	Responsible Designer Signature:	Thomas Lew
Company:	THOMAS LEW ASSOCIATES	Date Signed:	09-26-2016
Address:	19521 REINHART AVE.	License:	E15593
City/State/Zip:	CARSON, CA 90746	Phone:	(949) 302-1820

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 4 of 7)
Project Name: LIBRARY PLAZA RENOVATION	Date Prepared: 09-26-2016

D. Disaggregation of Electrical Circuits (continued) NOT APPLICABLE: EXISTING TO REMAIN

Table 130.5-B - MINIMUM REQUIREMENTS FOR SEPARATION OF ELECTRICAL LOAD

Table 130.5 – B sets the upper limit on how many load(s) of each type can be supplied by each feeder. A feeder may not supply loads of more than one type unless the service is rated at 50 kVA or less. For instance, on the fifth row of the table, one feeder on a service >50 kVA could be used to supply all the plug loads on a floor of a building, provided that there are no areas in which more than 25kVA of plug load is supplied to a space less than 5000sf

Load Type	Services rated 50 kVA or less	Services rated more than 50kVA and less than or equal to 250 kVA	Services rated more than 250 kVA and less than or equal to 1000kVA	Services rated more than 1000kVA
Lighting including exit and egress lighting and exterior lighting	Not required	All lighting in aggregate	All lighting disaggregated by floor, type or area	All lighting disaggregated by floor, type or area
HVAC systems and components including chillers, fans, heaters, furnaces, package units, cooling towers, and circulation pumps associated with HVAC	Not required	All HVAC in aggregate	All HVAC in aggregate and each HVAC load rated at least 50 kVA	All HVAC in aggregate and each HVAC load rated at least 50kVA
Domestic and service water system pumps and related systems and components	Not required	All loads in aggregate	All loads in aggregate	All loads in aggregate
Plug load including appliances rated less than 25 kVA	Not required	All plug load in aggregate Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	All plug load separated by floor, type or area Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	All plug loads separated by floor, type or area. Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf
Elevators, escalators, moving walks, and transit systems	Not required	All loads in aggregate	All loads in aggregate	All loads in aggregate
Other individual non-HVAC loads or appliances rated 25kVA or greater	Not required	All	Each	Each
Industrial and commercial load centers 25 kVA or greater including theatrical lighting installations and commercial kitchens	Not required	All	Each	Each
Renewable power source (net or total)	Each group	Each group	Each group	Each group
Loads associated with renewable power source	Not required	All loads in aggregate	All loads in aggregate	All loads in aggregate
Charging stations for electric vehicles	All loads in aggregate	All loads in aggregate	All loads in aggregate	All loads in aggregate

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 1 of 7)
Project Name: LIBRARY PLAZA RENOVATION	Date Prepared: 09-26-2016

A. General Information

Project Address: 2535 COMMERCE WAY COMMERCE, CA 90040		Climate Zone: ZONE #6	Conditioned Floor Area :
			Unconditioned Floor Area :
Building Type: X Nonresidential	High-Rise Residential	Hotel/Motel	
Schools	Relocatable Public Schools	X Conditioned Spaces	Unconditioned Spaces
Phase of Construction: New Construction	Addition	X Alteration	

STATE OF CALIFORNIA
COMMISSIONING ¬ CONSTRUCTION DOCUMENTS
CEC-NRCC-CXR-02-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-CXR-02-E
Commissioning - Construction Documents	(Page 2 of 9)
Project Name: LIBRARY PLAZA RENOVATION	Date Prepared: 09-26-2016

LIGHTING

LIGHTING CONTROLS						
130.1(a)	Accessible, independent switching or a control device is included for all areas enclosed by ceiling height partitions.	YES	N/A	YES		
130.1(a)4	General lighting is controlled separately from all other lighting systems.	YES	N/A	YES		
130.1(b)	General lighting of enclosed spaces 100 sf or larger with a lighting load that exceeds 0.5 W/sf, have multi level lighting controls from at least one of the following methods: manual dimming, lumen maintenance, tuning, automatic daylighting controls, demand responsive lighting controls. Control steps are in accordance with Table 130.1-A.	YES	N/A	YES		
130.1(c)1	Shut off controls are controlled with occupant sensing controls, automatic time-switch control, signal from another building system or other control and are shown for all indoor lighting systems.	YES	N/A	YES		
130.1(c)5	Offices 250 square feet or smaller; multipurpose rooms of less than 1000 square feet, and classrooms and conference rooms of any size, shall be equipped with occupant sensor(s) to shut off the lighting.	YES	N/A	YES		
130.1(c)6	Lighting in corridors and stairwells shall be controlled by occupant sensing controls that separately reduce lighting power in each space by at least 50% when the area is unoccupied.		N/A			
130.1(e)	For buildings greater than 10,000 sf, demand response controls should be included to reduce total building lighting power by a minimum of 15%.		N/A			
DAYLIGHT AREA						
140.3(c)	In Climate Zones 2 though 15: Daylight areas required for conditioned or unconditioned spaces greater than 5,000 ft2 of roof area and with ceiling height greater than 15 feet are shown on building plans and meet requirements of this section.		N/A			
DAYLIGHT CONTROLS						
130.1(d)2	All skylit daylit zones, primary sidelit daylit zones and secondary sidelit daylit zone are shown on plans. Controls of skylit and sidelit zones are independent and provide multi-level lighting in accordance with Table 130.1-A. Plans should indicate that general lighting power is reduced by a minimum of 65% when daylit illuminance is 150% of design illuminance.		N/A			
Best Practice	*The locations of all photo sensors are shown on the plans. Height and position criteria are also shown. Photo sensors are not installed in direct sunlight nor in direct light of lighting fixtures.*		N/A			
Best Practice	*Specification defines the amount of light to be gathered by the photo sensor in relation to its location for the lighted surface and this matches the application. For example: if 5 FC on the horizontal floor is the maintained lighting level and the sensor is mounted 15 feet off the ground, the sensor must be capable of detecting 5 FC from floor at that distance.*		N/A			

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DESIGN REVIEW KICKOFF
CEC-NRCC-CXR-02-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-CXR-01-E
Design Review Kickoff	(Page 1 of 2)
Project Name: LIBRARY PLAZA RENOVATION	Date Prepared: 09-26-2016

A. GENERAL INFORMATION

Climate Zone: ZONE #6	Building Type: NON-RESIDENTIAL	Conditioned Floor Area (sf):	
Reviewer's Name: THOMAS LEW ASSOCIATES		Reviewer's Agency:	
Enforcement Agency:		Permit Number:	
Enforcement Agency Use: Checked by		Enforcement Agency Use: Date	

B. DATE OF DESIGN REVIEW KICKOFF 09-26-2016

C. DESIGN REVIEW CHECKLISTS PROVIDED TO DESIGN TEAM YES X NO

D. DESIGN REVIEWER QUALIFICATIONS:
X <10,000 ft2: design engineer
☐ >10,000 ft2 and <50,000ft2: in-house engineer not associated with project or third-party design engineer
☐ >50,000 ft2 or complex mechanical system: third-party design engineer

E. LIST OF MEETING ATTENDEES:
☐ Owner: LIBRARY PLAZA RENOVATION ☐ Design Reviewer: THOMAS LEW ASSOCIATES
☐ Project Manager: THOMAS LEW ASSOCIATES ☐ Design Engineer(s): THOMAS LEW ASSOCIATES

F. DOCUMENTS RECEIVED BY DESIGN REVIEWER FOR DESIGN REVIEW KICKOFF:
X Owner's Project Requirements X Basis of Design or Narrative
X Drawing Set (Issue & date): ARCHITECTURAL DRAWINGS
☐ Specifications: ☐ Other:

G. DESIGN REVIEW MEETING TOPICS:
PROJECT SCOPE:
IMPROVEMENT OF EXISTING OFFICE AREA

DESIGN ELEMENTS AND ASSUMPTIONS:

HVAC SYSTEM SELECTION:

RECOMMENDED ENERGY EFFICIENCY MEASURES:

OTHER COMMENTS:

H. COORDINATION:

TARGET CONSTRUCTION DOCUMENT REVIEW DATE:	09-26-2016
TARGET PERMIT SUBMITTAL DATE:	09-26-2016

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 5 of 7)
Project Name: LIBRARY PLAZA RENOVATION	Date Prepared: 09-26-2016

E. Voltage Drop
X Attach voltage drop worksheet to this form,
X Field inspector has discretion to approve the worksheets; t he tables shown below in th i s section are advisory only
X Feeder conductors and branch circuits that are dedicated t o emergency services are e xempt from these requirements.
X An advisory table of typical power factors is shown below

	Field Inspector Pass	Fail
Feeders. Feeder conductors shall b e sized for a maximum volt age drop of 2 percent at de sign load.	.	.
Branch Circuits. Branch circuit conductors shall be sized for a m aximum voltage drop of 3 percent at design load.	.	.

Compliance Manual, Chapter 8, Tab le 8 2: Typical Power Facto rs for Voltage Drop Calculations

Load Type	Default Power Factor at 120 volts	Default Power Factor at 277 volts	Clarifying Notes
Fluorescent lighting	0.95	0.95	
Compact fluorescent lighting	0.9 (hardwired) 0.5 (GU-24)	0.9 (hardwired) 0.3 (GU-24)	NPF magnetic ballasts use GU-24 values
LED lighting	0.7	0.5	May be higher if specifications call for high power factor drivers
Incandescent lighting	1.0	1.0	
HID lighting	0.9	0.9	May be lower if NPF ballasts are specified
HVAC packages	0.85	0.9	
Other motors <5 HP	0.8	0.8	
Other motors >5 HP	0.85	0.85	
Kitchen equipment	0.9	N/A	
Receptacles	0.6	N/A	For dedicated receptacles, may be rated according to the load
Electric heating including hot water	1.0	1.0	
Other	0.85	0.85	

STATE OF CALIFORNIA
COMMISSIONING ¬ CONSTRUCTION DOCUMENTS
CEC-NRCC-CXR-02-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-CXR-02-E
Commissioning - Construction Documents	(Page 2 of 9)
Project Name: LIBRARY PLAZA RENOVATION	Date Prepared: 09-26-2016

B. Electrical Service Metering
X Each newly installed electrical service (in both existing and newly constructed buildings) is required to be met ered, as set out in Table 130.5-A, which is reproduced below.
X Fill out a separate line for each electrical service that is connected to the building.

Electrical Service Schedule	Electrical Service Rating	Metering Capabilities (check all t hat are present)				Field Inspector	
A	B	C	D	E	F	Pass	Fail
Designation/location in building/descrip tion	kVA	Instantaneous kW (at the time kW demand)	Historical peak demand (kW)	Resettable kWh	kWh per rate period		
EXISTING SWITCHBOARD		X	X	X	X	.	.
EXISTING TO REMAIN (METERING FUNCTION BY S.C.E.)		.	.	.	.	.	.
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Table 130.5-A - MINIMUM REQUIREMENTS FOR METERI G OF ELECTRICAL LO AD

Meter Rating (kVA)	50 kVA or less	More than 50kVA and less than or equal to 250 kVA	More than 250 kVA and less than or equal to 1000kVA	Services rated more than 1000kVA
Instantaneous (at the time) kW demand	Required	Required	Required	Required
Historical peak demand (kW)	Not required	Not required	Required	Required
Resettable kWh	Required	Required	Required	Required
kWh per rate period	Not required	Not required	Not required	Required

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Best Practice	*Daylight dimming zones have consistent window/glazing types and orientation (e.g., a single zone should not include east and south facing glass or have a section of tall window-wall and another wall section of smaller windows).*			N/A		
Best Practice	*Specifications state that sensor and dimming settings are set up and calibrated after furniture and final finishes and all lighting equipment are installed and operational*			N/A		
Best Practice	*A complete step by step sequence of operation is included defining the lighting levels (max and min), zones, interaction with occupants, interaction with occupancy and time-clock controls, and interaction with lighting on-off or dimming switches.*			N/A		
Best Practice	*Interface with BAS or other lighting control systems is defined and is fully compatible for all features of the sequence required. Interface shown on lighting and controls drawings.*			N/A		
Best Practice	*Daylight dimming controls are properly integrated with emergency fixtures, using separate ballasts for dimming and emergency backup.*			N/A		
Best Practice	*Daylight zones that penetrate more than one row of fixtures from the windows have the fixtures closer to the windows receiving a lower light command to create a more even lighting and save energy.*			N/A		
Best Practice	*The ballast specified is able to turn down as low as the specified daylight dimming system.*			N/A		
Best Practice	*To save energy, dimming specifications require that the illumination during night time shall be adjusted to be 20% or more lower than the daytime target, since the apparent illumination at night will appear higher.*			N/A		
OUTDOOR LIGHTING CONTROLS AND EQUIPMENT						
130.2(a)	Outdoor incandescent lighting rated over 100 watts is controlled by a motion sensor.			N/A		
130.2(c)1	All outdoor lighting is controlled by photocontrol or outdoor astronomical time-switch control.			N/A		
130.2(c)3	Outdoor lighting where bottom of luminaire is mounted 24 feet or less above the ground is controlled by motion sensors or other controls that are capable of reducing the lighting power of each luminaire by 40 to 80% in response to the area being vacated.			N/A		
130.2(c)55	Automatic lighting controls shown on plans for building façade, ornamental hardscape or outdoor dining lighting includes part-night lighting control, motion sensor control, or time-based control.			N/A		

NOTES

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CERTIFICATE OF COMPLIANCE	NRCC-CXR-01-E
Design Review Kickoff	(Page 2 of 2)
Project Name: LIBRARY PLAZA RENOVATION	Date Prepared: 09-26-2016

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

Documentation Author Name:	THOMAS LEW ASSOCIATES	Documentation Author Signature:	Thomas Lew
Company:	THOMAS LEW ASSOCIATES	Signature Date:	09-26-2016
Address:	19521 REINHART AVE.	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	CARSON, CA 90746	Phone:	(949) 302-1820

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	THOMAS LEW ASSOCIATES	Responsible Designer Signature:	Thomas Lew
Company:	THOMAS LEW ASSOCIATES	Date Signed:	09-26-2016
Address:	19521 REINHART AVE.	License:	E15593
City/State/Zip:	CARSON, CA 90746	Phone:	(949) 302-1820

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 6 of 7)
Project Name: LIBRARY PLAZA RENOVATION	Date Prepared: 09-26-2016

F. Circuit Controls for 120-Volt Receptacles
X Controlled 120 volt receptacles shall be provided, as required by Section 130.5(d) of the Standards.
X In open office areas, controlled circuit receptacles are not required if, at time of final permit, workstations are installed, and each workstation is equipped with an occupant sensing control that is permanently mounted in each workstation, and which controls a hardwired, nonresidential-rated power strip. Plug-in strips and other plug-in devices that incorporate an occupant sensor shall not be used for this exception.
X Receptacles that are only for the following purposes are exempt:
-Receptacles specifically for refrigerators and water dispensers in kitchenettes.
-Receptacles located a minimum of six feet above the floor that are specifically for clocks.
-Receptacles for network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms.

	Field Inspector Pass	Fail
1. At least one controlled receptacle is installed within 6 feet of each uncontrolled receptacle, or split-wired duplex receptacles are installed, that have one controlled and one uncontrolled receptacle. This applies in all of the following spaces: ... Private offices, open office areas ... Receptions and lobbies ... Conference rooms ... Kitchenettes in office spaces ... Copy room	.	.
2. Electric circuits serving controlled receptacles are equipped with automatic shut-OFF controls following the requirements prescribed in Section 130.1(c)1 through 5 (in many cases this will mean that the receptacles are connected to the same automatic shut-OFF system as the general lighting of the space).	.	.
3. Controlled receptacles shall have a permanent marking to differentiate them from uncontrolled receptacles.	.	.
4. For open office areas, controlled circuits shall be provided and marked to support installation and configuration of office furniture with receptacles that comply with Section 130.5(d) 1, 2, and 3.	.	.
5. For hotel and motel guest rooms at least one-half of the 120-volt receptacles in each guest room are controlled receptacles that comply with Section 130.5(d)1, 2, and 3 (see numbers 1,2 and 3 above). Electric circuits serving controlled receptacles have captive card key controls, occupancy sensing controls, or automatic controls such that, no longer than 30 minutes after the guest room has been vacated, power is switched off.	.	.
6. Plug-in strips and other plug-in devices that incorporate an occupant sensor are not used to comply with any of these requirements.	.	.

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CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 3 of 7)
Project Name: LIBRARY PLAZA RENOVATION	Date Prepared: 09-26-2016

C. Disaggregation of Electrical Circuits NOT APPLICABLE: EXISTING TO REMAIN
X Each newly installed switchboard, panel, and motor control center (in both existing and newly constructed buildings) is required to be disaggregated according to the requirements of Table 130.5-B, shown on the next page.
X Individual branch circuits, taps or disconnects that require overcurrent protection devices rated 60A or greater.
X As an alternative, current transformers can be added for individual branch circuits and loads throughout the building, and a permanent measurement system can be installed. In this case, disaggregated wiring would not be required as long as the metering system allows the equivalent disaggregated measurements.
X Fill out a separate line for each switchboard, motor control center, panelboard and subpanel.

Switchboard, motor control center, panelboard or subpanel	Electrical Service that supplies that switchboard or panel	Electrical Service Rating	Field Inspector Pass	Fail
A	B	C	D	
Designation/location in building/description	Designation/location in building/description	kVA	.	.
PANEL "A"	PANEL "A"	72 KVA	.	.
			.	.
			.	.

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

INDOOR LIGHTING POWER ALLOWANCE

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 4 of 4)
Project Name: LIBRARY PLAZA RENOVATION	Date Prepared: 09-26-2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	THOMAS LEW ASSOCIATES	Documentation Author Signature:	Thomas Lew
Company:	THOMAS LEW ASSOCIATES	Signature Date:	09-26-2016
Address:	19521 REINHART AVE.	CEA Certification Identification (if applicable):	
City/State/Zip:	CARSON, CA 90746	Phone:	(949) 302-1820

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STATE OF CALIFORNIA
CEC-NRCC-LTI-02-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

INDOOR LIGHTING ¬ LIGHTING CONTROLS

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 3 of 3)
Project Name: LIBRARY PLAZA RENOVATION	Date Prepared: 09-26-2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

INDOOR LIGHTING

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 5 of 6)
Project Name: LIBRARY PLAZA RENOVATION	Date Prepared: 09-26-2016

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
X CONDITIONED SPACE , UNCONDITIONED SPACE

C. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Luminaire Schedule						Location	Field Inspector [1]	
A	B	C	D	E	F	G	H	
			How wattage was determined					
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	CEC Default Item TAB	According to § 130.0(c)	Number Luminaires	Total Installed Watts in this area (C x F)	Primary Function area in which these luminaires are installed	Pass	Fail
C	2x4 LED TROFFER	39	.	X	26	1014	OFFICE AREA	.	.
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INSTALLED WATTS PAGE TOTAL:						1014	Enter sum total of all pages into NRCC-LTI-01-E; Page 2	1014	

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CEC-NRCC-LTI-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

INDOOR LIGHTING

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 1 of 6)
Project Name: LIBRARY PLAZA RENOVATION	Date Prepared: 09-26-2016

A. General Information

Climate Zone: ZONE #6	Conditioned Floor Area :			
	Unconditioned Floor Area :			
Building Type:	X Nonresidential	. High-Rise Residential	. Hotel/Motel	
. Schools	. Relocatable Public Schools	X Conditioned Spaces	Unconditioned Spaces	
Phase of Construction:	. New Construction	. Addition	X Alteration	
Method of Compliance:	. Complete Building	X Area Category	. Tailored	
Project Address:				

B. Lighting Compliance Documents (select yes for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	FORM	TITLE
YES		NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
YES		NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
YES		NRCC-LTI-03-E	Indoor Lighting Power Allowance
	N/A	NRCC-LIT-04-E	Tailored Method Worksheets
	N/A	NRCC-LIT-05-E	Line Voltage Track Lighting Worksheets

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

INDOOR LIGHTING POWER ALLOWANCE

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 1 of 4)
Project Name: LIBRARY PLAZA RENOVATION	Date Prepared: 09-26-2016

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
X CONDITIONED spaces , UNCONDITIONED spaces

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES

, If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
X If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)	(b)
1. Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)		
2. Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)		1225
3. Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E		
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1		1225

, Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

1	2		3		4
TYPE OF BUILDING (From §140.6 Table 140.6-B)	WATTS PER (ft²)	X	COMPLETE BLDG. AREA	=	ALLOWED WATTS
Total Area:					
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)					

C -1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES (D plus E)	Watts
Total from section C-2	1225
Total from section C-3	.
Total Watts. Enter Total Watts into section A, row 2 (Above on this page)	1225

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INDOOR LIGHTING

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 6 of 6)
Project Name: LIBRARY PLAZA RENOVATION	Date Prepared: 09-26-2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	THOMAS LEW ASSOCIATES	Documentation Author Signature:	Thomas Lew
Company:	THOMAS LEW ASSOCIATES	Signature Date:	09-26-2016
Address:	19521 REINHART AVE.	CEA Certification Identification (if applicable):	
City/State/Zip:	CARSON, CA 90746	Phone:	(949) 302-1820

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
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STATE OF CALIFORNIA
CEC-NRCC-LTI-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

INDOOR LIGHTING

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 2 of 6)
Project Name: LIBRARY PLAZA RENOVATION	Date Prepared: 09-26-2016

C. Summary of Allowed Lighting Power

Conditioned and Unconditioned space Lighting must not be combined for compliance

Indoor Lighting Power for Conditioned Spaces				Indoor Lighting Power for Unconditioned Spaces		
		Watts				Watts
1.	**Installed** Lighting NRCC-LTI-01-E, page 4	+ 1014		**Installed** Lighting NRCC-LTI-01-E, page 4	+	
2.	PORTABLE ONLY FOR OFFICES NRCC-LTI-01-E, page 3	+				
3.	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-		Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	
4.	Adjusted **Installed** Lighting Power (row 1 plus row 2 minus row 3)	= 1014		Adjusted **Installed** Lighting Power (row 1 minus row 3)	=	
5.	Complies ONLY if **Installed** = **Allowed**			Complies ONLY if **Installed** = **Allowed**		
6.	**Allowed** Lighting Power Conditioned NRCC-LTI-03-E, page 1	1225		**Allowed** Lighting Power Unconditioned NRCC-LTI-03-E, page 1		

D. Declaration of Required Installation Certificates

Declare by selecting yes for all Installation Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
YES		NRCI-LTI-01-E - Must be submitted for all buildings	. Field Inspector
YES		NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	. Field Inspector
	N/A	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	. Field Inspector
	N/A	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	. Field Inspector
	N/A	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	. Field Inspector
	N/A	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	. Field Inspector

E. Declaration of Required Certificates of Acceptance

Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

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

INDOOR LIGHTING POWER ALLOWANCE

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 2 of 4)
Project Name: LIBRARY PLAZA RENOVATION	Date Prepared: 09-26-2016

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
X CONDITIONED spaces , UNCONDITIONED spaces

C-2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE

X Do not include portable lighting for offices. Portable lighting for offices shall be documented only in section B of NRCC-LTI-01-E.
X Separately list lighting for each primary function area as defined in §100.1 of the Standards.

A		B		C		D
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS				ALLOWED
Location in Building	Primary Function Area per Table 140.6-C	PER (ft²)	X	AREA (ft²)	=	WATTS
OFFICE AREA	OFFICES (GREATER THAN 250 SQ. FT.) (TOTAL)	0.75		1226		920
OFFICE AREA	OFFICES (LESS THAN/EQUAL TO 250 SQ. FT.) (TOTAL)	1.0		140		140
OFFICE AREA	BREAKROOM AREA	1.1		150		165