

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |                                                                                                                                                                                                                                                                                                                                                                          |       |                                                                                                                                                                                                                                                                                                                                        |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| --A-- | AB anchor bolt<br>ABV above<br>AC asphaltic concrete<br>A/C air conditioning<br>ADD addendum<br>ACG aggregate<br>ALT alternate<br>ALUM aluminum<br>APPROX approximate<br>ARCH architect(ural)<br>AUTO automatic                                                                                                                                                                                                                                                                              | --H-- | HB hose bibb<br>HC hollow core<br>HD heavy duty<br>HDR header<br>HOW hardware<br>HGT height<br>HMT hollow metal<br>HHR horizontal<br>HTG heating<br>HVC heating / ventilating air conditioning<br>HWD hardwood                                                                                                                                                           | --S-- | S south<br>SC solid core<br>SCH schedule<br>SD storm drain<br>SEC section<br>SH shelf, shelving<br>SHT sheet<br>SIM similar<br>SPEC specification(s)<br>SPK speaker<br>SQ square<br>SS stainless steel<br>ST steel<br>STA station<br>STD standard<br>STD storage<br>STR structural<br>SYS suspended<br>SYM symmetry(cal)<br>SYS system |
| --B-- | BD board<br>BEL below<br>BET between<br>BIT bit<br>BLDG building<br>BLK block<br>BLKG blocking<br>BM bench mark<br>BOT bottom<br>BRG bearing<br>BRZ bronze<br>BUR built up roofing<br>BW both ways                                                                                                                                                                                                                                                                                           | --I-- | ID inside diameter<br>INCL include(ng)<br>INSUL insulate(ion)<br>INT interior<br>INVT invert<br>JST joist<br>JT joint<br>KIT kitchen<br>KO knockout                                                                                                                                                                                                                      | --T-- | T telephone<br>TEL tongue & groove<br>THK thick(ness)<br>TV television<br>TYP typical                                                                                                                                                                                                                                                  |
| --C-- | CAB cabinet<br>CAD cadmium<br>CB catch basin<br>CEM cement<br>CER ceramic<br>CFT cubic foot<br>CI cast iron<br>CIR circle<br>CIRC circumference<br>CLG ceiling<br>CLC contract limit line<br>CLR clear(once)<br>CLS clasp<br>CM centimeter<br>CMU concrete masonry unit<br>COL column<br>COMB combination<br>COMP composition<br>CONC concrete<br>CONT continuous/ continue<br>CONTR contract(or)<br>CONST construction<br>CORR corrugated<br>CPR copper<br>CPT carpet(ed)<br>CYD cubic yard | --L-- | LAB laboratory<br>LAM laminate(d)<br>LAV lavatory<br>LBL label<br>LH left hand<br>LIV live load<br>LT light<br>LTL lintel<br>LW lightweight                                                                                                                                                                                                                              | --U-- | UNO unless noted otherwise<br>URD urinal                                                                                                                                                                                                                                                                                               |
| --D-- | DEM demolish, demolition<br>DH double hung<br>DIAG diagonal<br>DIAM diameter<br>DIM dimension<br>DIV division<br>DR door<br>DS downspout<br>DTL detail<br>DNG drawing<br>DWR drawer                                                                                                                                                                                                                                                                                                          | --M-- | MAS masonry<br>MAX maximum<br>MBR machine bolt<br>MBR member<br>MC medicine cabinet<br>MECH mechanical<br>MED medium<br>MET metal<br>MFR manufacture(er)<br>MH manhole<br>MIN minimum<br>MR mirror<br>MSC miscellaneous<br>MLD molding, moulding<br>MM millimeter<br>MT mount(ed, ing)<br>MTL material(s)                                                                | --V-- | VERT vertical<br>VIN vinyl                                                                                                                                                                                                                                                                                                             |
| --E-- | E east<br>EF each face<br>ELEV elevation<br>ELEC electric(al)<br>EMER emergency<br>ENC enclosure<br>EP electrical panelboard<br>EQ equal<br>EQUIP equipment<br>EST estimate<br>EWC electric water cooler<br>EXST existing<br>EXHST exhaust<br>EXP exposed<br>EXT exterior                                                                                                                                                                                                                    | --N-- | N north<br>NAT natural<br>NIC not in contract<br>NOM nominal<br>NTS not to scale                                                                                                                                                                                                                                                                                         | --W-- | W west<br>W/ with<br>W/O without<br>WC water closet<br>WD wood<br>WH water heater<br>WIN window<br>WPT working point<br>WR water repellent<br>WWF welded wire fabric                                                                                                                                                                   |
| --F-- | FA fire alarm<br>FD floor drain<br>FE fire extinguisher<br>FFE finished floor elevation<br>FFL finished floor line<br>FIN finish(ed)<br>FLR floor(ing)<br>FLUOR fluorescent<br>FND foundation<br>FTG footing                                                                                                                                                                                                                                                                                 | --O-- | OA overall<br>OBSC obscure<br>OC on center<br>OD outside diameter<br>OH overhead<br>OPG opening<br>OPP opposite                                                                                                                                                                                                                                                          | --X-- | X PERPENDICULAR<br>PROPERTY LINE<br>DIAMETER<br>DEGREES (ANGLE)<br>PLUS OR MINUS<br>AT                                                                                                                                                                                                                                                 |
| --G-- | GA gage, gauge<br>GI galvanized iron<br>GL glass, glazing<br>GP galvanized pipe<br>GYP BD gypsum board<br>GRD grade, grading<br>GSS galvanized steel<br>GV galvanized                                                                                                                                                                                                                                                                                                                        | --P-- | PAR panel<br>PBB panic bar<br>PCB precast concrete<br>PCF pounds per cubic foot<br>PED pedestal<br>PERF perforate(d)<br>PRE.FAB. prefabricate(d)<br>PL poured in place<br>PL property line<br>PLT plate<br>PLAS plaster<br>PLYWD plywood<br>PNL panel<br>PNT point(ab)<br>PSF pounds per square foot<br>PSI pounds per square inch<br>PT point<br>PVC polyvinyl chloride | --Y-- | Y ROOM<br>ROOM NAME<br>ROOM NUMBER<br>KEYNOTE NUMBER<br>DOOR LETTER<br>ROOM NUMBER<br>DOOR NUMBER (ALTERNATE SYMBOL)<br>WINDOW TYPE<br>DRAWING REVISION                                                                                                                                                                                |

**900 WASHINGTON ST.  
MENTAL HEALTH T.I.  
900 EAST WASHINGTON ST.  
COLTON, CA 92334**

[illegible]

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## DIRECTORY

STANDARD CITY NOTES



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## owner approval

| initials | date     | phase |
|----------|----------|-------|
|          | 00/00/00 | --    |

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| revisions/addenda |          |         |
|-------------------|----------|---------|
| mark              | date     | comment |
| A                 | 00/00/00 | --      |
| B                 |          |         |
| C                 |          |         |
| 1                 |          |         |
| 2                 |          |         |
| 3                 |          |         |
| 4                 |          |         |
| 5                 |          |         |

MENTAL HEALTH SUITE - TENANT  
IMPROVEMENTS  
000 EAST WASHINGTON STREET  
COLTON, CA 92324

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COLTON JOINT USD - FACILITIES  
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project information

|                |            |
|----------------|------------|
| PROJECT NO:    | 2600013.RA |
| DWG FILE:      | G-001.DWG  |
| DRAWN BY:      | EVC        |
| CHECKED BY:    | GWM        |
| DRAWING SCALE: | N.T.S.     |
| DATE:          | 5/20/2026  |

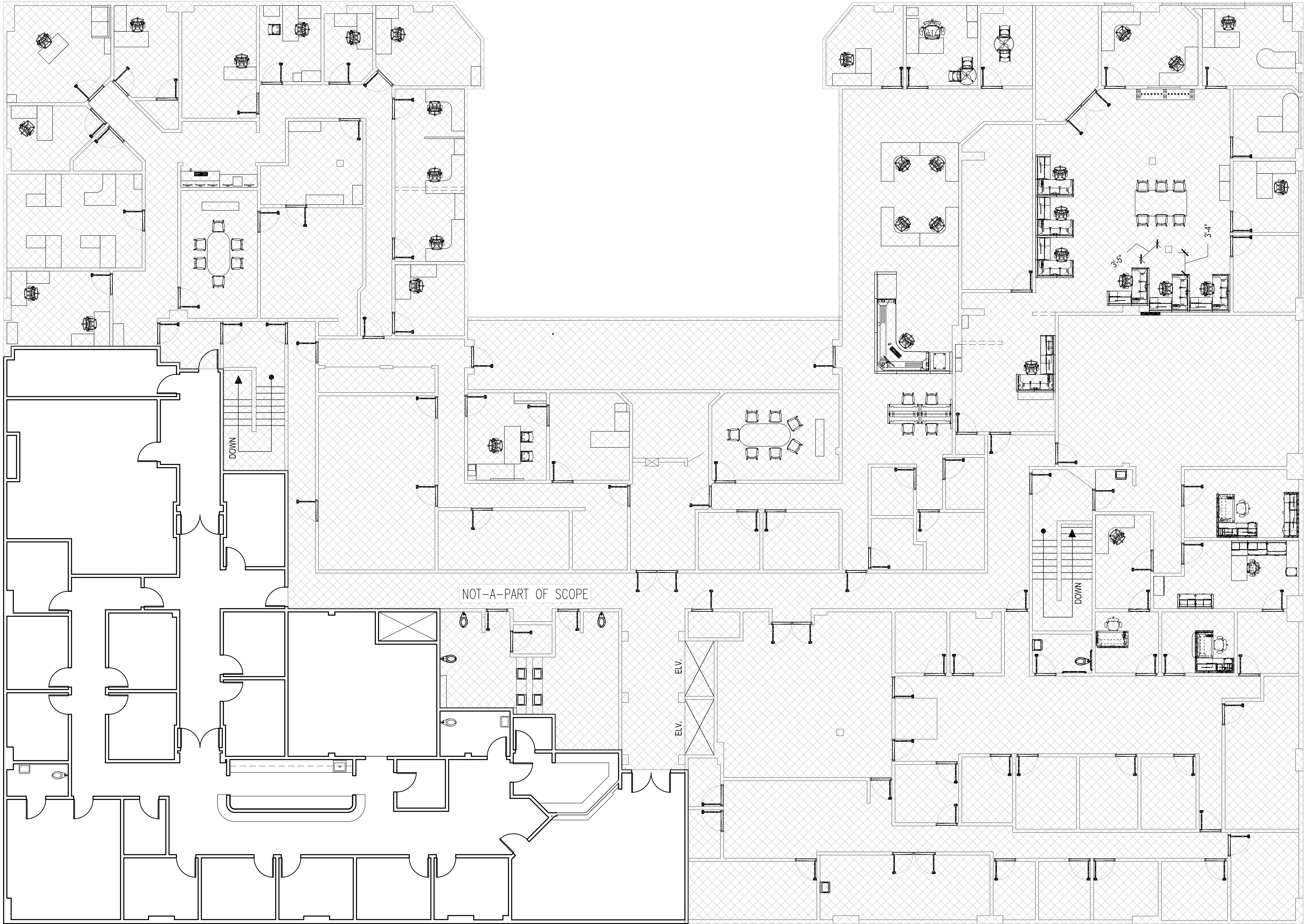
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## GENERAL INFORMATION

sheet number

G-001

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| initials | date     | phase |
|----------|----------|-------|
|          | 00/00/00 | --    |

revisions/addenda

| mark | date     | comment |
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| A    | 00/00/00 | --      |
| B    |          |         |
| C    |          |         |
| D    |          |         |
| E    |          |         |
| F    |          |         |
| G    |          |         |

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project information

|                |              |
|----------------|--------------|
| PROJECT NO:    | 2600013.RA   |
| DWG FILE:      | A-101.DWG    |
| DRAWN BY:      | -            |
| CHECKED BY:    | GWM          |
| DRAWING SCALE: | 1/8" = 1'-0" |
| DATE:          | 5/20/2026    |

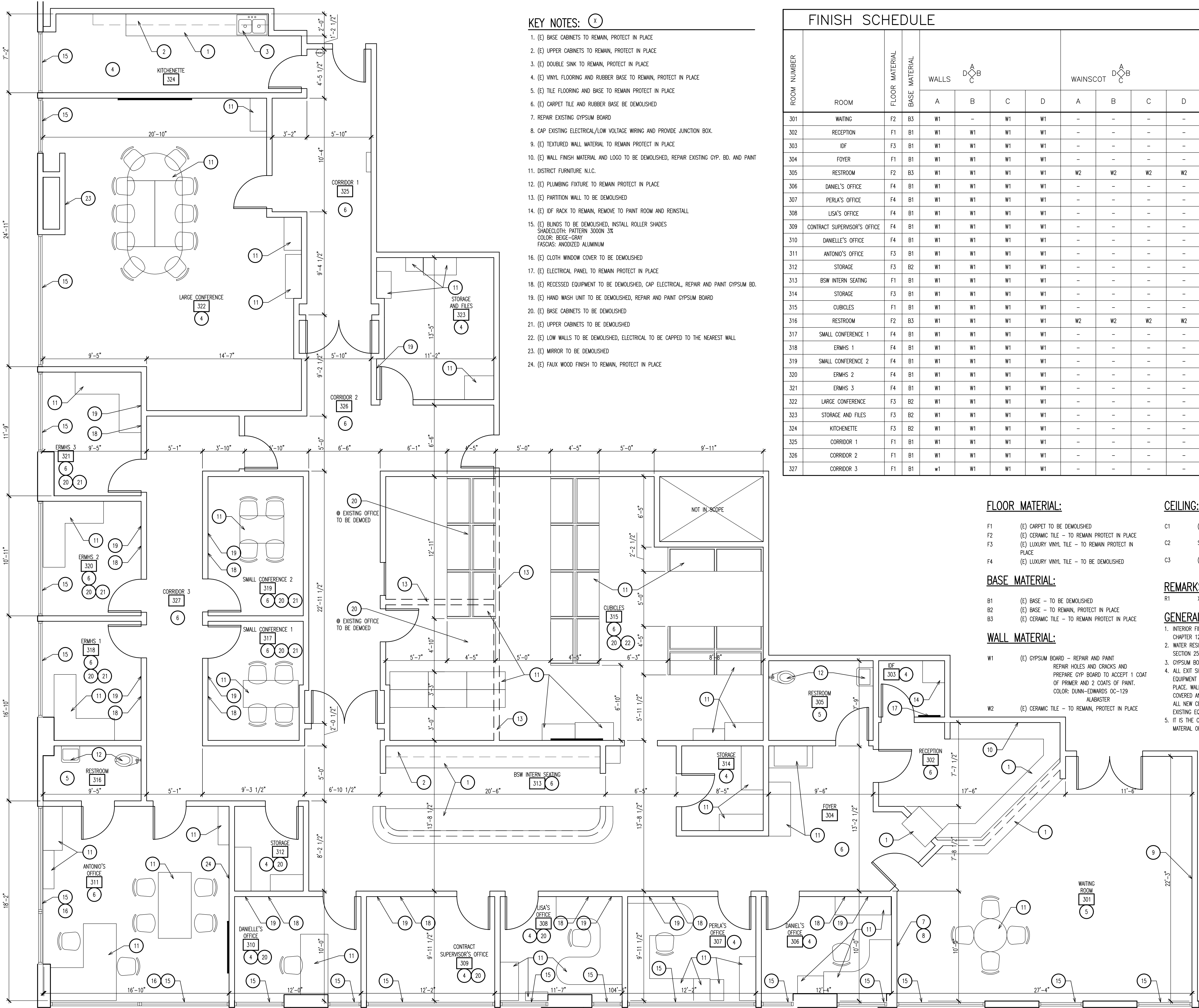
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OVERALL  
FLOOR PLAN

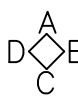
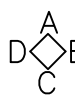
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A-101

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- KEY NOTES:** (X)
- 1. (E) BASE CABINETS TO REMAIN, PROTECT IN PLACE
  - 2. (E) UPPER CABINETS TO REMAIN, PROTECT IN PLACE
  - 3. (E) DOUBLE SINK TO REMAIN, PROTECT IN PLACE
  - 4. (E) VINYL FLOORING AND RUBBER BASE TO REMAIN, PROTECT IN PLACE
  - 5. (E) TILE FLOORING AND BASE TO REMAIN, PROTECT IN PLACE
  - 6. (E) CARPET TILE AND RUBBER BASE BE DEMOLISHED
  - 7. REPAIR EXISTING GYPSUM BOARD
  - 8. CAP EXISTING ELECTRICAL/LOW VOLTAGE WIRING AND PROVIDE JUNCTION BOX.
  - 9. (E) TEXTURED WALL MATERIAL TO REMAIN PROTECT IN PLACE
  - 10. (E) WALL FINISH MATERIAL AND LOGO TO BE DEMOLISHED, REPAIR EXISTING GYP. BD. AND PAINT
  - 11. DISTRICT FURNITURE N.I.C.
  - 12. (E) PLUMBING FIXTURE TO REMAIN PROTECT IN PLACE
  - 13. (E) PARTITION WALL TO BE DEMOLISHED
  - 14. (E) IDF RACK TO REMAIN, REMOVE TO PAINT ROOM AND REINSTALL
  - 15. (E) BLINDS TO BE DEMOLISHED, INSTALL ROLLER SHADES  
SHADECLOTH: PATTERN 3000N 3%  
COLOR: BEIGE-GRAY  
FASCIAS: ANODIZED ALUMINUM
  - 16. (E) CLOTH WINDOW COVER TO BE DEMOLISHED
  - 17. (E) ELECTRICAL PANEL TO REMAIN PROTECT IN PLACE
  - 18. (E) RECESSED EQUIPMENT TO BE DEMOLISHED, CAP ELECTRICAL, REPAIR AND PAINT GYPSUM BD.
  - 19. (E) HAND WASH UNIT TO BE DEMOLISHED, REPAIR AND PAINT GYPSUM BOARD
  - 20. (E) BASE CABINETS TO BE DEMOLISHED
  - 21. (E) UPPER CABINETS TO BE DEMOLISHED
  - 22. (E) LOW WALLS TO BE DEMOLISHED, ELECTRICAL TO BE CAPPED TO THE NEAREST WALL
  - 23. (E) MIRROR TO BE DEMOLISHED
  - 24. (E) FAUX WOOD FINISH TO REMAIN, PROTECT IN PLACE

| FINISH SCHEDULE |                              |                |               |                                                                                           |    |    |    |                                                                                              |    |    |    |                  |                |         |
|-----------------|------------------------------|----------------|---------------|-------------------------------------------------------------------------------------------|----|----|----|----------------------------------------------------------------------------------------------|----|----|----|------------------|----------------|---------|
| ROOM NUMBER     | ROOM                         | FLOOR MATERIAL | BASE MATERIAL | WALLS  |    |    |    | WAINSCOT  |    |    |    | CEILING MATERIAL | CEILING HEIGHT | REMARKS |
|                 |                              |                |               | A                                                                                         | B  | C  | D  | A                                                                                            | B  | C  | D  |                  |                |         |
|                 |                              |                |               |                                                                                           |    |    |    |                                                                                              |    |    |    |                  |                |         |
| 301             | WAITING                      | F2             | B3            | W1                                                                                        | -  | W1 | W1 | -                                                                                            | -  | -  | -  | C1               | VARIABLES      |         |
| 302             | RECEPTION                    | F1             | B1            | W1                                                                                        | W1 | W1 | W1 | -                                                                                            | -  | -  | -  | C1               | VARIABLES      |         |
| 303             | IDF                          | F3             | B1            | W1                                                                                        | W1 | W1 | W1 | -                                                                                            | -  | -  | -  | C1               | 9'-0"          |         |
| 304             | FOYER                        | F1             | B1            | W1                                                                                        | W1 | W1 | W1 | -                                                                                            | -  | -  | -  | C1               | 9'-0"          |         |
| 305             | RESTROOM                     | F2             | B3            | W1                                                                                        | W1 | W1 | W1 | W2                                                                                           | W2 | W2 | W2 | C3               | 9'-0"          |         |
| 306             | DANIEL'S OFFICE              | F4             | B1            | W1                                                                                        | W1 | W1 | W1 | -                                                                                            | -  | -  | -  | C1               | 9'-0"          |         |
| 307             | PERLA'S OFFICE               | F4             | B1            | W1                                                                                        | W1 | W1 | W1 | -                                                                                            | -  | -  | -  | C1               | 9'-0"          |         |
| 308             | LISA'S OFFICE                | F4             | B1            | W1                                                                                        | W1 | W1 | W1 | -                                                                                            | -  | -  | -  | C1               | 9'-0"          |         |
| 309             | CONTRACT SUPERVISOR'S OFFICE | F4             | B1            | W1                                                                                        | W1 | W1 | W1 | -                                                                                            | -  | -  | -  | C1               | 9'-0"          |         |
| 310             | DANIELLE'S OFFICE            | F4             | B1            | W1                                                                                        | W1 | W1 | W1 | -                                                                                            | -  | -  | -  | C1               | 9'-0"          |         |
| 311             | ANTONIO'S OFFICE             | F3             | B1            | W1                                                                                        | W1 | W1 | W1 | -                                                                                            | -  | -  | -  | C1               | 9'-0"          |         |
| 312             | STORAGE                      | F3             | B2            | W1                                                                                        | W1 | W1 | W1 | -                                                                                            | -  | -  | -  | C1               | 9'-0"          |         |
| 313             | BSW INTERN SEATING           | F1             | B1            | W1                                                                                        | W1 | W1 | W1 | -                                                                                            | -  | -  | -  | C1               | 9'-0"          |         |
| 314             | STORAGE                      | F3             | B1            | W1                                                                                        | W1 | W1 | W1 | -                                                                                            | -  | -  | -  | C1               | 9'-0"          |         |
| 315             | CUBICLES                     | F1             | B1            | W1                                                                                        | W1 | W1 | W1 | -                                                                                            | -  | -  | -  | C2               | 9'-0"          |         |
| 316             | RESTROOM                     | F2             | B3            | W1                                                                                        | W1 | W1 | W1 | W2                                                                                           | W2 | W2 | W2 | C3               | 9'-0"          |         |
| 317             | SMALL CONFERENCE 1           | F4             | B1            | W1                                                                                        | W1 | W1 | W1 | -                                                                                            | -  | -  | -  | C1               | 9'-0"          |         |
| 318             | ERMHS 1                      | F4             | B1            | W1                                                                                        | W1 | W1 | W1 | -                                                                                            | -  | -  | -  | C1               | 9'-0"          |         |
| 319             | SMALL CONFERENCE 2           | F4             | B1            | W1                                                                                        | W1 | W1 | W1 | -                                                                                            | -  | -  | -  | C1               | 9'-0"          |         |
| 320             | ERMHS 2                      | F4             | B1            | W1                                                                                        | W1 | W1 | W1 | -                                                                                            | -  | -  | -  | C1               | 9'-0"          |         |
| 321             | ERMHS 3                      | F4             | B1            | W1                                                                                        | W1 | W1 | W1 | -                                                                                            | -  | -  | -  | C1               | 9'-0"          |         |
| 322             | LARGE CONFERENCE             | F3             | B2            | W1                                                                                        | W1 | W1 | W1 | -                                                                                            | -  | -  | -  | C1               | 9'-0"          |         |
| 323             | STORAGE AND FILES            | F3             | B2            | W1                                                                                        | W1 | W1 | W1 | -                                                                                            | -  | -  | -  | C1               | 9'-0"          |         |
| 324             | KITCHENETTE                  | F3             | B2            | W1                                                                                        | W1 | W1 | W1 | -                                                                                            | -  | -  | -  | C1               | 9'-0"          |         |
| 325             | CORRIDOR 1                   | F1             | B1            | W1                                                                                        | W1 | W1 | W1 | -                                                                                            | -  | -  | -  | C1               | 9'-0"          |         |
| 326             | CORRIDOR 2                   | F1             | B1            | W1                                                                                        | W1 | W1 | W1 | -                                                                                            | -  | -  | -  | C1               | 9'-0"          |         |
| 327             | CORRIDOR 3                   | F1             | B1            | W1                                                                                        | W1 | W1 | W1 | -                                                                                            | -  | -  | -  | C1               | 9'-0"          |         |

**FLOOR MATERIAL:**

- F1 (E) CARPET TO BE DEMOLISHED
- F2 (E) CERAMIC TILE - TO REMAIN PROTECT IN PLACE
- F3 (E) LUXURY VINYL TILE - TO REMAIN PROTECT IN PLACE
- F4 (E) LUXURY VINYL TILE - TO BE DEMOLISHED

**BASE MATERIAL:**

- B1 (E) BASE - TO BE DEMOLISHED
- B2 (E) BASE - TO REMAIN, PROTECT IN PLACE
- B3 (E) CERAMIC TILE - TO REMAIN PROTECT IN PLACE

**WALL MATERIAL:**

- W1 (E) GYPSUM BOARD - REPAIR AND PAINT  
REPAIR HOLES AND CRACKS AND  
PREPARE GYP BOARD TO ACCEPT 1 COAT  
OF PRIMER AND 2 COATS OF PAINT.  
COLOR: DUNN-EDWARDS OC-129  
ALABASTER
- W2 (E) CERAMIC TILE - TO REMAIN, PROTECT IN PLACE

**CEILING:**

- C1 (E) SUSPENDED ACOUSTICAL CEILING - REPLACE  
ACOUSTICAL TILE ONLY
- C2 SUSPENDED ACOUSTICAL CEILING -  
REPLACE ALUMINUM GRID AND TILE
- C3 (E) GYPSUM BOARD - PAINT  
DUNN-EDWARDS OC-129 ALABASTER

**REMARKS:**

- R1 X

**GENERAL NOTES:**

- 1. INTERIOR FINISH MATERIALS SHALL COMPLY WITH 2025 CBC CHAPTER 12.
- 2. WATER RESISTANT GYPSUM BOARD COMPLYING WITH 2025 CBC SECTION 2509 TO BE USED IN TOILET ROOMS.
- 3. GYPSUM BOARD TO BE 5/8" TYPE "X" UNLESS NOTED OTHERWISE.
- 4. ALL EXIT SIGNAGE, FIRE ALARM, AND FIRE SPRINKLER RELATED EQUIPMENT SHALL BE EXISTING TO REMAIN AND PROTECTED IN PLACE. WALL AND CEILING MOUNTED EQUIPMENT SHOULD BE COVERED AND PROTECTED WELL TO AVOID PAINT OVERSPRAY, AND ALL NEW CEILING TILES SHALL BE MODIFIED TO ACCOMMODATE EXISTING EQUIPMENT TO MATCH EXISTING INSTALLATION.
- 5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DISPOSE OF ANY MATERIAL OR EQUIPMENT MARKED FOR DEMOLITION.



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**owner approval**

| initials | date     | phase |
|----------|----------|-------|
|          | 00/00/00 | --    |

**revisions/addenda**

| mark | date     | comment |
|------|----------|---------|
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**project information**

PROJECT NO: 2600013.RA  
DWG FILE: A-102.DWG  
DRAWN BY: EVC  
CHECKED BY: GWM  
DRAWING SCALE: 1/4" = 1'-0"  
DATE: 5/20/2026

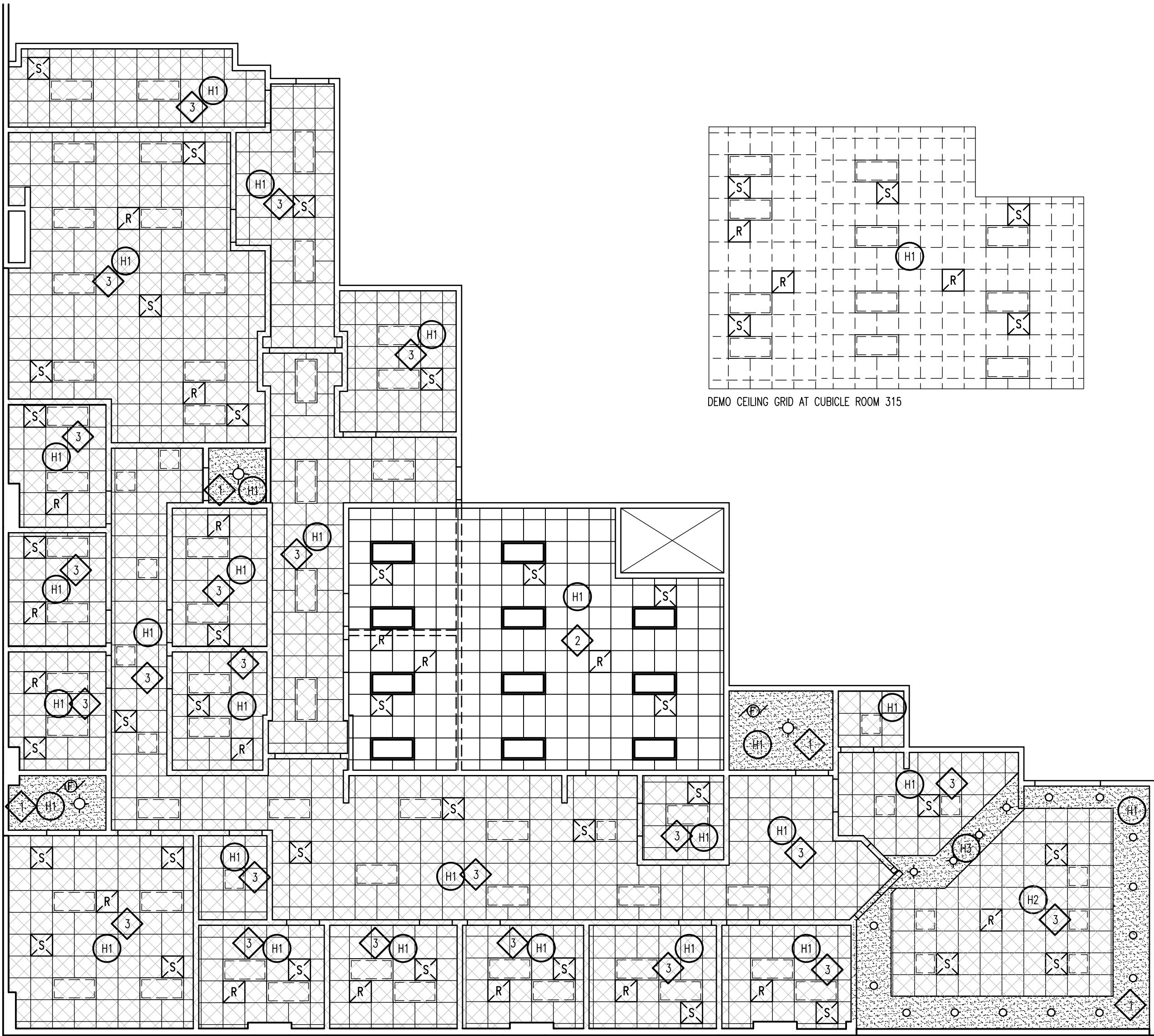
**sheet name**

**ENLARGED FLOOR PLAN**

**sheet number**

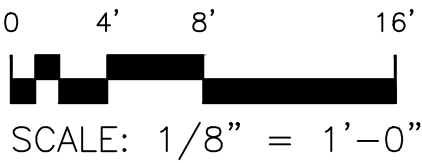
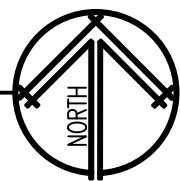
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DEMO CEILING GRID AT CUBICLE ROOM 315

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



GENERAL NOTES:

1. PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW AND EXISTING CONSTRUCTION, STRUCTURE OR EQUIPMENT SHALL BE REPAIRED OR REPLACED.
2. ALL EXISTING AREAS TO REMAIN THAT ARE DAMAGED BY DEMOLITION OR NEW CONSTRUCTION WORK SHALL BE PATCHED TO MATCH EXISTING ADJACENT AREA IN MATERIAL, FINISH AND COLOR.
3. UPON COMPLETION OF THE DEMOLITION WORK, ENSURE ALL AREAS ARE LEFT IN BROOM CLEAN CONDITION.

LEGEND:

- (E) T-BAR CEILING GRID TO REMAIN PROTECT IN PLACE, REPLACE ALL CEILING TILES WITH NEW CEILING TILES
- (E) T-BAR CEILING GRID TO BE REMOVED AND REPLACED WITH EQUIVALENT INCLUDING NEW CEILING TILES
- (E) GYPSUM BOARD TO REMAIN PAINT TO MATCH WALL COLOR
- (E) 2x4 FIXTURE TO BE REMOVED AND REPLACED WITH LED 2X4
- (E) 2x2 FIXTURE TO BE REMOVED AND REPLACED WITH LED 2X2
- 2x4 FIXTURE
- (E) PENDANT FIXTURE TO BE REMOVED AND REPLACED WITH RECESSED LED
- (E) RECESSED FIXTURE TO BE REMOVED AND REPLACED WITH LED
- (E) EXIT SIGNS TO REMAIN PROTECT IN PLACE
- (E) EXHAUST FAN TO REMAIN PROTECT IN PLACE
- (E) MECHANICAL REGISTERS TO REMAIN PROTECT IN PLACE AND REMOVE AND REPLACE WHERE CEILING GRID TO BE REPLACED.

CEILING FINISH LEGEND:

- 1 GYPSUM BOARD - TEXTURED AND PAINTED
- 2 SUSPENDED CEILING W/AcoustICAL PANELS SEE DETAIL 3/A-501, MATCH EXISTING COLOR AND STYLE
- 3 (E) SUSPENDED CEILING GRID TO REMAIN PROTECT IN PLACE, REPLACE ALL ACOUSTICAL TILES WITH NEW MATCH EXISTING COLOR AND STYLE
- 4 NOT USED

CEILING HEIGHT LEGEND:

- H1 9'-0" (TYPICAL UNLESS NOTED OTHERWISE)
- H2 10'-0"
- H3 8'-0"



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owner approval

| initials | date     | phase |
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revisions/addenda

| mark | date     | comment |
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| A    | 00/00/00 | --      |
| B    |          |         |
| C    |          |         |
| D    |          |         |
| E    |          |         |
| F    |          |         |
| G    |          |         |

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project information

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DWG FILE: A-103.DWG  
DRAWN BY: PK  
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CEILING  
PLAN

sheet number

A-103

DRAWING NAME: 2:\PROJECTS\2026 PROJECTS\CAUSD MENTAL BEHAVIORAL HEALTH COLTON 2600013.RA\DRAWINGS\CURRENT\CAO-REV14-A-501.DWG | PLOT DATE: 7/15/2026 9:56 AM | PLOTTED BY: EDGAR CAMACHO | COPYRIGHT 2016 MILLER ARCHITECTURAL CORPORATION ALL RIGHTS RESERVED

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|----------|--|----------|----|----------|--|----------|----|----------|--|----------|----|
| SHEET: - |  | SCALE: - | 17 | SHEET: - |  | SCALE: - | 13 | SHEET: - |  | SCALE: - | 9  |
| SHEET: - |  | SCALE: - | 18 | SHEET: - |  | SCALE: - | 14 | SHEET: - |  | SCALE: - | 10 |
| SHEET: - |  | SCALE: - | 19 | SHEET: - |  | SCALE: - | 15 | SHEET: - |  | SCALE: - | 11 |
| SHEET: - |  | SCALE: - | 20 | SHEET: - |  | SCALE: - | 16 | SHEET: - |  | SCALE: - | 12 |

VERTICAL STRUT AT 12" O.C. EACH WAY WITH FIRST POINT TO BE WITHIN 6" FROM EACH WALL FASTENED TO MAIN RUNNER AND STRUCTURE ABOVE PER 2019 CBC CHAPTER 8.

12 GA. BRACING WIRE WITH MIN. 4 TIGHT TURNS IN 1 1/2" AT BOTH ENDS OF WIRE (TYP.)

12 GA. VERTICAL HANGER WIRE AT 4'-0" EACH WAY WITH MIN. 3 TIGHT TURNS IN 1 1/2" AT BOTH ENDS OF WIRE (TYP.)

MAIN RUNNERS

CROSS RUNNERS

45° MAX.

45° MAX.

45° MAX.

45° MAX.

ATTACHED WALL

UNATTACHED WALL

POP RIVETS

3/8" AT TWO ADJACENT WALLS OR 3/4" AT ALL FOUR WALLS. SEE NOTE 18

STABILIZER BARS

UNATTACHED WALL

3/8" MIN. CLR. CROSS OR MAIN RUNNER

12'-0" O.C.

6'-0" MAX.

8" MAX.

6'-0" MAX.

12'-0" O.C.

PLAN VIEW

12 GA. MIN. VERTICAL HANGER WIRE. SEE NOTE 19

3/8" AT TWO ADJACENT WALLS OR 3/4" AT ALL FOUR WALLS. SEE NOTE 18

ACoustICAL TILE CEILING ON SUSPENDED GRID SYSTEM

8" MAX.

FINISH CLG. HEIGHT

45°

SECTION VIEW

3" MAX.

JOIST OR BLOCKING

#10 SCREW EYE WITH 1 1/4" THREAD EMBEDMENT, OR APPROVED ACOUSTICAL LAG SCREW.

BRACING OR HANGER WIRE

ATTACHMENT TO ROOF STRUCTURE

BRACING OR HANGER WIRE

CEILING TILE

GRID SYSTEM

#8 S.M.S. AT EACH STUD

CONT. 2" METAL 16 GA. "L" TRIM AT PERIMETER WALL

LINE OF PERIMETER WALL

WALL ANGLE ATTACHMENT

ROOF STRUCTURE

CRIMP TOP OF TUBING FLAT

ATTACH TOP WITH (2) #10 SELF DRILLING SCREWS TO TRUSSES OR METAL DECK

2- 2 1/2" X 20 GA. MTL STUD TYP.

1" DIA. 14 GA. STL TUBING

SECURE SECTIONS W/ (2) SET #10 SCREWS

1/2" DIA. 14 GA. STL TUBING- CRIMP BOTTOM FLAT

ATTACH TO MAIN RUNNER WITH 2- #12 SHEET METAL SCREWS TYP.

PROVIDE SOLID METAL SHEET FILLER AT T-BAR CONN. TYP.

COMPRESSION STRUT

SUSPENDED CEILING NOTES:

1. INSTALL SYSTEM IN ACCORDANCE WITH ASTM C635, C636 AND CBC SECTION 1613.1 AND ASCE 7-10.

2. CEILINGS SHALL NOT SUPPORT MATERIAL OR BUILDING COMPONENTS OTHER THAN GRILLES OR LIGHT FIXTURES. DUCTWORK, PLUMBING AND LIKE WORK SHALL HAVE IT'S OWN SUPPORT SYSTEM AND SHALL NOT UTILIZE THE CEILING SYSTEM OR SUSPENSION WIRES.

3. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT STRUTS OR BRACES AS REQUIRED AT CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1 AND 6 OUT OF PLUMB SHALL HAVE COUNTER SLOPING WIRES.

4. PROVIDE 12 GAGE HANGER WIRES AT THE END OF MAIN AND CROSS RUNNERS WITHIN 8 INCHES FROM THE SUPPORT OR WITHIN 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LEAST, FOR THE PERIMETER OF THE CEILING AREA.

5. CEILING GRID MEMBERS SHALL BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHALL BE AT LEAST 1/2 INCH FREE OF OTHER WALLS.

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

7. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM UNBRACED DUCTS, PIPES OR CONDUIT. ATTACH LIGHTWEIGHT ITEMS, SUCH AS SINGLE ELECTRICAL CONDUIT NOT EXCEEDING 3/4 INCHES NOMINAL DIAMETER, TO HANGER WIRES USING APPROVED CONNECTORS.

8. ATTACH LIGHT FIXTURES TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE.

9. FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN 4 TAUT 12-GAGE WIRES EACH ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE.

9.1. THE 4 TAUT 12 GAGE WIRES INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE SHALL BE CAPABLE OF SUPPORTING 4 TIMES THE WEIGHT OF THE UNIT.

9.2. ALL FIXTURES AND AIR TERMINALS OR SERVICES SUPPORTED ON INTERMEDIATE DUTY GRID SYSTEMS SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN 4 TAUT 12 GAGE WIRES EACH ATTACHED TO THE FIXTURE OR TERMINAL AND TO THE STRUCTURE ABOVE.

10. SUPPORT SURFACE MOUNTED LIGHT FIXTURES BY AT LEAST TWO POSITIVE DEVICES WHICH SURROUND THE CEILING RUNNER AND WHICH ARE EACH SUPPORTED FROM THE STRUCTURE ABOVE BY A 12 GAGE WIRE. SPRING CLIPS OR CLAMPS THAT CONNECT ONLY TO THE RUNNER ARE NOT ACCEPTABLE.

10.1. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE 8 FEET OR LONGER.

11. SUPPORT PENDANT MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING 4 TIMES THE WEIGHT OF THE FIXTURE.

12. DO NOT ECCENTRICALLY LOAD SYSTEM, OR PRODUCE ROTATION OF RUNNERS.

13. INSTALL EDGE ANGLE AT INTERSECTION OF CEILING AND VERTICAL SURFACES, USING LONGEST PRACTICAL LENGTHS. INSTALL IN A SINGLE ALIGNED PLAN WITH THE CEILING GRID. MITER CORNERS. PROVIDE EDGE ANGLES AT JUNCTIONS WITH OTHER INTERRUPTIONS. WHERE ROUND OBSTRUCTIONS OCCUR, PROVIDE PREFORMED CLOSERS TO MATCH EDGE MOLDING.

14. FIT ACOUSTIC UNITS IN PLACE, FREE FROM DAMAGED EDGES OR OTHER DEFECTS DETRIMENTAL TO APPEARANCE AND FUNCTION.

15. INSTALL ACOUSTIC UNITS LEVEL, IN UNIFORM PLANE, AND FREE FROM TWIST, WARP AND DENTS. REPLACE DAMAGED OR SOILED UNITS.

16. PROVIDE FOR COMPLETE ACCESSIBILITY FOR ALL UNITS.

17. BRACING WIRES SECURED TO MAIN RUNNERS WITHIN 2" OF THE CROSS RUNNER INTERSECTION AND SPAYED 90° FROM EACH OTHER AT AN ANGLE NOT EXCEEDING 45° FROM THE PLANE OF THE CEILING.

18. FOR ROOMS WITH SPAN IN EITHER DIRECTION LESS THAN 25 FEET, MAIN RUNNERS AND CROSS RUNNERS MAY BE ATTACHED TO THE PERIMETER OF TWO ADJACENT WALLS WITH 3/8" CLEARANCE BETWEEN THE RUNNERS AND THE OTHER TWO WALLS. WHERE SPAN OF THE CEILING SYSTEM BETWEEN PERIMETER WALLS EXCEED

25 FEET IN BOTH DIRECTIONS, A MINIMUM WALL ANGLE SIZE OF AT LEAST 2" HORIZONTAL LEG SHALL BE USED AT PERIMETER WALLS AND INTERIOR FULL HEIGHT PARTITION. THE FIRST TILE SHALL BE 3/4" CLEAR FROM WALL SURFACE.

19. WHEN THE DISTANCE BETWEEN THE STRUCTURAL DECK AND THE CEILING EXCEEDS 4 FEET, THE SPACING OF THE VERTICAL HANGERS SHALL NOT EXCEED 2 FEET ON CENTER ALONG THE ENTIRE LENGTH OF THE MEANS OF EGRESS SERVING AN OCCUPANT LOAD OF 30 OR MORE, AND AT LOBBIES ACCESSORY TO GROUP A OCCUPANCIES.

20. SPLICE RUNNERS PER MANUFACTURERS RECOMMENDATIONS.

21. CONSTRUCT SUSPENDED CEILING PER ICC REPORT ESR-1308.

22. SUSPENDED CEILING TO COMPLY WITH THE FOLLOWING CBC REQUIREMENTS IN CATEGORY D, E AND F INSTALLATIONS:

22.1. 2" MOLDING (GRID SYSTEMS WITH SPECIALTY OR PROPRIETARY ANGLES AND SUPPORT CLIPS MAY BE ACCEPTABLE AT THE DISCRETION OF THE BUILDING OFFICIAL).

22.2. ATTACHED GRID ON TWO ADJACENT WALLS WITH POP RIVETS, SCREWS OR OTHER MEANS.

22.3. 3/4" CLEARANCE AT PERIMETER ON UNATTACHED WALLS AND STABILIZER BARS TO PREVENT THE SPREAD OF MAINS AND BEAMS AND CROSS TEES.

22.4. HEAVY DUTY GRID

23. EXCEPT WHERE RIGID BRACES ARE USED TO LIMIT LATERAL DEFLECTION, SPRINKLER HEADS AND OTHER PENETRATIONS, PROVIDE A 2" OVERSIZE RING, SLEEVE, OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FOR FREE MOVEMENT OF AT LEAST ONE INCH IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, A SWING JOINT THAT CAN ACCOMMODATE ONE INCH OF CEILING MOVEMENT IN ALL HORIZONTAL DIRECTIONS IS PERMITTED TO BE PROVIDED AT THE TOP OF THE SPRINKLER HEAD EXTENSION.

24. LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQUARE FEET OR LESS, WHEN PERIMETER SUPPORT, IN ACCORDANCE WITH ASTM E580 SECTIONS 5.2.2 AND 5.2.3, ARE PROVIDED AND PERIMETER WALLS ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES.

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| initials | date     | phase |
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revisions/addenda

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## GENERAL NOTES

- ALL WORK, MATERIALS AND EQUIPMENT SHALL BE CONSIDERED TO BE NEW UNLESS NOTED OTHERWISE.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST CODE OF REGULATIONS (CCR), NATIONAL ELECTRICAL CODE EDITION AND ALL APPLICABLE LOCAL CODES AND REGULATIONS.
- ALL PANELS, SWITCHES, ETC. SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS IN COMPLIANCE TO UL REQUIREMENTS TO ACCOMMODATE CONDUCTORS SHOWN.
- WHERE WIRE SIZES ARE INDICATED ON PLANS, FOR INDIVIDUAL CIRCUITS, THE WIRE SIZE INDICATED SHALL APPLY TO THE COMPLETE CIRCUIT, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF MECHANICAL, PLUMBING AND OTHER EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO ANY WORK.
- CONTRACTOR SHALL EXTEND WIRING FROM ALL JUNCTION BOXES, SWITCHES, ETC. AND MAKE FINAL CONNECTION AS REQUIRED TO ALL BUILDING EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OR OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLED. MAINTAIN HEADROOM AND MINIMUM CODE REQUIRED WORKING CLEARANCES AT ALL TIMES.
- FURNISH APPROVED EXPANSION FITTINGS WHERE RACEWAY CROSSES BUILDING EXPANSION JOINTS.
- FURNISH PULL STRING IN EACH RACEWAY RUN OVER 10' IN LENGTH, IN WHICH PERMANENT WIRING IS NOT INSTALLED.
- PROVIDE PULL BOXES WHEREVER NECESSARY TO FACILITATE PULLING OF CONDUCTORS. COORDINATE LOCATIONS OF BOXES WITH OTHER TRADES TO AVOID CONFLICT. PULL BOXES SHALL BE ACCESSIBLE. THE SIZE OF PULL BOX SHALL COMPLY WITH N.E.C. REQUIREMENTS.
- ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT INCLUDING THOSE THAT ARE EXPOSED TO OUTSIDE ENVIRONMENT (UP TO 16') SHALL BE WEATHERPROOF TYPE, NEMA 3R.
- NO CONDUIT RUNS SHALL BE ALLOWED IN CONCRETE SLABS. ALL CONDUITS WILL BE PLACED ABOVE ACCESSIBLE CEILING SPACES UNLESS SPECIFICALLY INDICATED TO BE UNDERGROUND.
- DISCONNECT SWITCHES SHALL BE MOUNTED ON INDIVIDUAL SUPPORTS, OR OTHERWISE DIRECTLY ON EQUIPMENT, PROVIDED NO MODIFICATION TO EQUIPMENT IS NECESSARY.
- ALL ELECTRICAL POWER LIGHTING, TELEPHONE OR SIGNAL WIRING IN FIRE RATED WALL IS TO BE INSTALLED IN A METALLIC CONDUIT SYSTEM.
- ALL ELECTRIC MATERIAL SHALL BE LISTED BY "UL" FOR THE TYPE OF APPLICATION AND "UL" LABEL SHALL APPEAR ON ALL ELECTRICAL EQUIPMENT.
- ALL DISTRIBUTION AND CONTROL EQUIPMENT (SUCH AS CB'S, SWITCHES, CONTACTORS, ETC.), TERMINATIONS SHALL BE FULLY RATED PER UL AS FOLLOWS:
  - 125A OR LESS : 60°C OR MORE;
  - MORE THAN 125A : 75°C OR MORE.
- ANY ERRORS, OMISSIONS, OR DESIGN DISCREPANCIES ON PLANS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER FOR CLARIFICATION OR CORRECTION PRIOR TO CONSTRUCTION AND PREPARATION OF SUBMITTAL PACKAGES.
- CONDUCTORS SHALL HAVE UNDERWRITER'S LABORATORIES, INC.(UL) LISTED, 600 VOLT INSULATION OF TYPE SPECIFIED BELOW OR ELSEWHERE IN THE SPECIFICATIONS. CONDUCTORS SHALL BE COPPER AND LISTED FOR 90 DEGREE APPLICATIONS.

- BRANCH CIRCUITS - LIGHTING AND POWER.
  - #10 AWG AND SMALLER, SOLID WIRE TYPE THW OR THHN/THWN-2, THHW (THHN FOR DRY LOCATION ONLY).
  - #8 AWG TO #2 AWG, STRANDED TYPE THW OR THHN/THHW.
  - #1 AWG AND LARGER, STRANDED TYPE XHHW.
- FEEDERS : TYPE THW OR THHN/THWN-2, OR XHHW.
- PROVIDE GREEN INSULATED GROUNDING CONDUCTOR IN EACH RACEWAY INCLUDING CONDUITS, PLUG STRIPS, WIREMOLD. SIZE OF GROUNDING SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE ARTICLE 250.
- WIRING METHOD SHALL BE EMT ABOVE GROUND AND MOUNTED IN CONCEALED SPACES AND SCHEDULE-40 PVC FOR UNDERGROUND INSTALLATION. USE RIGID WHEN ENCASED IN CONCRETE OR SUSCEPTIBLE TO DAMAGE.
- USE 10AWG CONDUCTORS FOR 20 AMPERE, 120V BRANCH CIRCUITS LONGER THAN 75 FEET. USE 10AWG CONDUCTORS FOR 20 AMPERE, 277V BRANCH CIRCUITS LONGER THAN 200 FEET.
- UNLESS OTHERWISE INDICATED, SHARING OF NEUTRAL/GROUNDED CONDUCTORS AMONG SINGLE PHASE BRANCH CIRCUITS OF DIFFERENT PHASES INSTALLED IN THE SAME RACEWAY IS NOT PERMITTED. PROVIDE DEDICATED NEUTRAL/GROUNDED CONDUCTOR FOR EACH INDIVIDUAL BRANCH CIRCUIT.
- ALL ELECTRICAL WORK SHALL BE DESIGNED PER 2020 LOS ANGELES COUNTY ELECTRICAL CODE, 2019 NEC ELECTRICAL CODE, 2017 NATIONAL ELECTRICAL CODE, AND 2019 BUILDING ENERGY EFFICIENCY STANDARDS.
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONAL RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION.

## SINGLE LINE DIAGRAM SYMBOLS

|  |                                                                             |
|--|-----------------------------------------------------------------------------|
|  | MOLDED CASE CIRCUIT BREAKER                                                 |
|  | SWITCH AND FUSE ASSEMBLY                                                    |
|  | UTILITY COMPANY PULL SECTION LUGS                                           |
|  | GROUNDING CONNECTION TO MAIN BUILDING GROUND SYSTEM U.O.N.                  |
|  | GROUNDING CONNECTION AT SWITCHGEAR/DISTRIBUTION BOARD WITH NEUTRAL BONDING. |
|  | IN-LINE UTILITY COMPANY METER                                               |
|  | UTILITY METER WITH CIRCUIT TRANSFORMERS (CT'S) METER                        |
|  | GROUND FAULT PROTECTION DEVICE CONNECTED TO THE POWER DISTRIBUTION SYSTEM   |
|  | TRANSFORMER WITH SECONDARY GROUND                                           |
|  | ON-SITE GENERATOR SET                                                       |
|  | CONDUIT WIRING DESCRIPTION PER FEEDER SCHEDULE ON OTHER PLAN                |

## LIGHTING SYMBOLS

|  |                                                                                                                                                                                                                                                      |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | LIGHTING FIXTURE REFERENCE                                                                                                                                                                                                                           |
|  | 2'X4' RECESSED LUMINAIRE. REFER TO LUMINAIRE SCHEDULE. SUBSCRIPT "A-1" REFERS TO PANEL DESIGNATION WITH CIRCUIT NUMBER. TYPICAL OF ALL FIXTURES. SUBSCRIPT ab REFERS TO SWITCH LEG 'a' AND 'b', SUBSCRIPT AB REFERS TO ZONE DESIGNATION 'A' AND 'B'. |
|  | 2'X4' RECESSED LUMINAIRE WITH 90MIN. EMERGENCY BATTERY BACKUP                                                                                                                                                                                        |
|  | INTERNALLY ILLUMINATED SURFACE MOUNTED DOUBLE FACE EXIT SIGN (UNIVERSAL ARROWS INDICATED AS NEEDED) CBC 1013.3                                                                                                                                       |
|  | INTERNALLY ILLUMINATED SURFACE MOUNTED SINGLE FACE EXIT SIGN (UNIVERSAL ARROWS INDICATED AS NEEDED) CBC 1013.3                                                                                                                                       |
|  | SWITCH, SINGLE POLE 20A. MOUNTED 48" A.F.F. TO TOP OF DEVICE. SUBSCRIPTS INDICATE THE FOLLOWING:<br><div><div>M - MOTOR RATED<br/>3 - THREE WAY<br/>4 - FOUR WAY</div><div>K - KEY OPERATED<br/>D - DIMMER SWITCH<br/>T - TIMED SWITCH</div></div>   |
|  | a, b, c, ETC. - DESIGNATES SWITCH-LEGS CONTROLLED AND QUANTITY OF SWITCHES AT EACH LOCATION.                                                                                                                                                         |
|  | OCCUPANCY SENSOR, DUAL-TECHNOLOGY, SURFACE CEILING MOUNTED. PROVIDE WITH POWER PACK(S) AS REQUIRED.                                                                                                                                                  |
|  | DUAL TECHNOLOGY OCCUPANCY SENSOR, SURFACE WALL MOUNTED 180" U.O.N.                                                                                                                                                                                   |
|  | LOW-VOLTAGE OVERRIDE SWITCH. NUMBER INDICATES OVERRIDE SWITCH. A,B,C, ETC. DESIGNATES ZONE AS SHOWN ON LIGHTING ZONE SCHEDULE.                                                                                                                       |
|  | LOW-VOLTAGE DIMMER SWITCH. MOUNTED 48" A.F.F. TO TOP OF DEVICE. a, b, c, ETC. - DESIGNATES SWITCH-LEGS CONTROLLED AND QUANTITY OF SWITCHES AT EACH LOCATION.                                                                                         |
|  | LOW-VOLTAGE OCCUPANCY SENSOR, DUAL-TECHNOLOGY, SURFACE CEILING MOUNTED INTERCONNECTED TO NETWORK LIGHTING CONTROLS.                                                                                                                                  |
|  | LOW-VOLTAGE OCCUPANCY SENSOR, DUAL-TECHNOLOGY, WALL MOUNTED AT 48" A.F.F. TO TOP OF DEVICE, INTERCONNECTED TO NETWORK LIGHTING CONTROLS.                                                                                                             |
|  | CEILING MOUNTED DIGITAL ROOM CONTROLLER INTERCONNECTED TO NETWORK LIGHTING CONTROLS.                                                                                                                                                                 |

## TECHNOLOGY SYMBOLS

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | DATA OUTLET BOX 4S, MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N. STUB 1-1/4" C. 6" ABOVE CEILING SPACE, PROVIDE BUSHING AND PULL WIRE. IF INSTALLED IN AREA WITH EXPOSED STRUCTURE ABOVE OR HARD LID CEILING, PROVIDE 1-1/4" C.O. BACK TO LOCATION OF NEAREST IDF/MDF. PROVIDE (3) CAT6E CABLES WITH NECESSARY CONNECTORS.                                                                                                          |
|  | TELEPHONE OUTLET BOX 4S, MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N. STUB 1-1/4" C. 6" ABOVE CEILING SPACE, PROVIDE BUSHING AND PULL WIRE. IF INSTALLED IN AREA WITH EXPOSED STRUCTURE ABOVE OR HARD LID CEILING, PROVIDE 1-1/4" C. BACK TO LOCATION OF NEAREST COMMUNICATIONS CABINET OR TELEPHONE BACKBOARD. "W" INDICATES +42" A.F.F. UNLESS OTHERWISE NOTED. PROVIDE (1) CAT6E CABLE WITH NECESSARY CONNECTORS.                |
|  | COMBINATION TELEPHONE & DATA OUTLET BOX 4S, MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N. STUB 1-1/4" C. 6" ABOVE CEILING SPACE, PROVIDE BUSHING AND PULL WIRE. IF INSTALLED IN AREA WITH EXPOSED STRUCTURE ABOVE OR HARD LID CEILING, PROVIDE 1-1/4" C. BACK TO LOCATION OF NEAREST IDF/MDF, COMMUNICATIONS CABINET, OR TELEPHONE BACKBOARD. PROVIDE (4) CAT6E CABLES WITH NECESSARY CONNECTORS.                                    |
|  | COMBINATION TELEPHONE & DATA OUTLET BOX 4S, MOUNTED HEIGHT HORIZONTALLY ABOVE COUNTER TOP PER ARCHITECTURAL PLANS OR APPROVAL STUB 1-1/4" C. 6" ABOVE CEILING SPACE, PROVIDE BUSHING AND PULL WIRE. IF INSTALLED IN AREA WITH EXPOSED STRUCTURE ABOVE OR HARD LID CEILING, PROVIDE 1-1/4" C. BACK TO LOCATION OF NEAREST IDF/MDF, COMMUNICATIONS CABINET, OR TELEPHONE BACKBOARD. PROVIDE (4) CAT6E CABLES WITH NECESSARY CONNECTORS. |
|  | FLUSH FLOOR MOUNTED COMBINATION TELEPHONE & DATA OUTLET BOX, U.O.N. PROVIDE 1-1/4" C. BACK TO NEAREST WALL OR VOICE/DATA OUTLET BOX. PROVIDE (1) CAT6E CABLE WITH NECESSARY CONNECTORS.                                                                                                                                                                                                                                               |

## POWER SYMBOLS

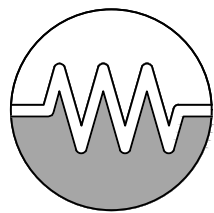
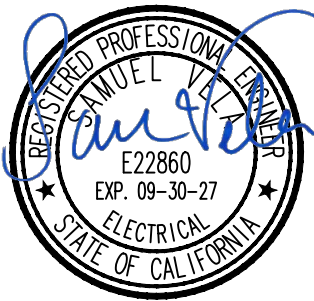
|     |                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A-1 | SUBSCRIPT "A-1" REFERS TO PANEL DESIGNATION WITH CIRCUIT NUMBER. TYPICAL OF ALL RECEPTACLE OUTLETS.                                                                                                                                                                                                                                                                                                 |
|     | DUPLEX RECEPTACLE, WALL MOUNTED. (20 AMPS, 120VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.                                                                                                                                                                                                                                                                                                 |
|     | DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED. (20 AMPS, 120 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.                                                                                                                                                                                                                                                                                         |
|     | DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS, GFCI TYPE) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.                                                                                                                                                                                                                                                                               |
|     | DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS) WITH MOUNTING HEIGHT HORIZONTALLY ABOVE COUNTER TOP PER ARCHITECTURAL PLANS OR APPROVAL.                                                                                                                                                                                                                                                |
|     | DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS, GFCI TYPE) WITH MOUNTING HEIGHT HORIZONTALLY ABOVE COUNTER TOP PER ARCHITECTURAL PLANS OR APPROVAL.                                                                                                                                                                                                                                     |
|     | CA TITLE 24 COMPLIANT DUPLEX RECEPTACLE OUTLET, HALF-CONTROLLED, CONVENIENCE, WITH PERMANENT MARKING. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.                                                                                                                                                                                                                           |
|     | CA TITLE 24 COMPLIANT DOUBLE DUPLEX RECEPTACLE OUTLET, HALF-CONTROLLED, CONVENIENCE, WITH PERMANENT MARKING. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.                                                                                                                                                                                                                    |
|     | DUPLEX RECEPTACLE OUTLET, SINGLE SPLIT-CIRCUIT SWITCHED. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.                                                                                                                                                                                                                                                                        |
|     | SURFACE MOUNTED DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.                                                                                                                                                                                                                                                                          |
|     | RECESSED CEILING MOUNTED DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS) U.O.N.                                                                                                                                                                                                                                                                                                         |
|     | ABOVE CEILING, CONCEALED, JUNCTION BOX, WITH COVER, PER NATIONAL ELECTRICAL CODE (NEC) TABLE 314.16(A)/(B), 4" SQUARE DEEP, WITH PLASTER RING.                                                                                                                                                                                                                                                      |
|     | RECESSED WALL MOUNTED JUNCTION BOX, WITH COVER, PER NATIONAL ELECTRICAL CODE (NEC) TABLE 314.16(A)/(B), 4" SQUARE DEEP, WITH PLASTER RING.                                                                                                                                                                                                                                                          |
|     | DUPLEX RECEPTACLE, FLUSH IN FLOOR, WATERTIGHT JUNCTION BOX (HINGED BRASS COVER: 20 AMP, 120 VOLT, 2-POLE, 3-WIRE) U.O.N.                                                                                                                                                                                                                                                                            |
|     | DOUBLE DUPLEX RECEPTACLE, FLUSH IN FLOOR, WATERTIGHT JUNCTION BOX (20 AMP, 120 VOLT, 2-POLE, 3-WIRE) U.O.N.                                                                                                                                                                                                                                                                                         |
|     | JUNCTION BOX, FLUSH IN FLOOR, WATERTIGHT (HINGED BRASS COVER: 20 AMP, 120 VOLT, 2-POLE, 3-WIRE) U.O.N.                                                                                                                                                                                                                                                                                              |
|     | SPECIALTY OUTLET. VERIFY NEMA CONFIGURATION AS NOTED ON PLANS.                                                                                                                                                                                                                                                                                                                                      |
|     | CONCRETE ELECTRICAL PULL BOX WITH LID APPROPRIATE FOR INSTALLATION LOCATION. LID SHALL BE LABELED "ELECTRICAL" OR "COMIM" ACCORDING TO USE.                                                                                                                                                                                                                                                         |
|     | BRANCH PANELBOARD OR SWITCHGEAR, REFERENCE SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.                                                                                                                                                                                                                                                                                                          |
|     | ELECTRICAL PANEL, RECESSED OR SURFACE MOUNTED                                                                                                                                                                                                                                                                                                                                                       |
|     | MAIN SWITCHBOARD, POWER OR LIGHT, FLOOR STANDING ENCLOSURE, (SEE SINGLE LINE DIAGRAM AND LOAD SUMMARY)                                                                                                                                                                                                                                                                                              |
|     | DISCONNECT SWITCH H.P. RATED 600 VOLTS RATED. "F" INDICATES FUSE TYPE. FUSES PER APPROVED MANUFACTURERS SHOP DRAWINGS.                                                                                                                                                                                                                                                                              |
|     | MAGNETIC MOTOR STARTER H.P. RATED (NUMBER INDICATES NEMA SIZE)                                                                                                                                                                                                                                                                                                                                      |
|     | CONDUIT CONCEALED IN OR UNDER FLOOR, 3/4" UON, COORDINATE WITH G.C.: OR, BURIAL CONDUIT UNDERGROUND IN SCHEDULE- 40 PVC UNLESS NOTED OTHERWISE. VERIFY DEPTH AND TRENCHING WITH G.C..                                                                                                                                                                                                               |
|     | DETAIL REFERENCE                                                                                                                                                                                                                                                                                                                                                                                    |
|     | EQUIPMENT REFERENCE                                                                                                                                                                                                                                                                                                                                                                                 |
|     | GROUND WELL                                                                                                                                                                                                                                                                                                                                                                                         |
|     | SMOKE FIRE DAMPER                                                                                                                                                                                                                                                                                                                                                                                   |
|     | DUCT MOUNTED SMOKE DETECTOR.                                                                                                                                                                                                                                                                                                                                                                        |
|     | THERMOSTAT SUPPLIED BY MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL STUB 3/4" C.O. 6" ABOVE CEILING SPACE, PROVIDE BUSHING AND PULL WIRE. IF INSTALLED IN AREA WITH EXPOSED STRUCTURE ABOVE OR HARDLID CEILING, PROVIDE 3/4" C.O. BACK TO ASSOCIATED HVAC UNIT. REFER TO MECHANICAL DETAILS FOR T-STAT MOUNTING HEIGHT REQUIREMENTS. VERIFY LOCATIONS WITH HVAC CONTRACTOR PRIOR TO ROUGH IN. |
|     | CARBON MONOXIDE SENSOR SUPPLIED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE 3/4" GALVANIZED RIGID CONDUIT WITH PULL STRING BACK TO HEAD END CARBON MONOXIDE PANEL. REFER TO MECHANICAL DRAWINGS FOR EXACT EQUIPMENT LOCATIONS AND WIRING DETAILS.                                                                                                                                 |
|     | CEILING MOUNTED PLUG LOAD CONTROLLER.                                                                                                                                                                                                                                                                                                                                                               |
|     | CONTACT SENSOR FOR HVAC SHUTDOWN. 4S BOX, MOUNTED ABOVE DOOR OR WINDOW, U.O.N. STUB 3/4" C.O. 6" ABOVE CEILING SPACE. PROVIDE BUSHING AND PULL WIRE. IF INSTALLED IN AREA WITH EXPOSED STRUCTURE ABOVE OR HARD LID CEILING, PROVIDE 3/4" C.O. BACK TO LOCATION OF ASSOCIATED HVAC THERMOSTAT.                                                                                                       |
|     | SURGE PROTECTION DEVICE CEC 700.8                                                                                                                                                                                                                                                                                                                                                                   |
|     | CEILING MOUNTED COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR. DETECTOR TO BE EQUIPPED WITH LOW FREQUENCY SOUNDER BASE AND TIED BACK TO BUILDING FIRE ALARM SYSTEM.                                                                                                                                                                                                                                |
|     | PUSHBUTTON FOR DOOR BELL. STUB 3/4" C.O. 6" ABOVE CEILING SPACE, PROVIDE BUSHING AND PULL WIRE.                                                                                                                                                                                                                                                                                                     |
|     | DOOR BELL CHIME. STUB 3/4" C.O. 6" ABOVE CEILING SPACE, PROVIDE BUSHING AND PULL WIRE.                                                                                                                                                                                                                                                                                                              |

## ABBREVIATIONS

|            |                                                            |         |                                                        |
|------------|------------------------------------------------------------|---------|--------------------------------------------------------|
| A          | AMPERE                                                     | NEC     | NATIONAL ELECTRICAL CODE                               |
| AF         | AMPERE FRAME RATING (CIRCUIT BREAKER)                      | NEMA    | NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION         |
| AFF        | ABOVE FINISHED FLOOR                                       | NEW (N) | NEW, TO BE FURNISHED AND INSTALLED                     |
| AFG        | ABOVE FINISHED GRADE                                       |         | BY CONTRACTOR                                          |
| AFU        | AMPERE FUSE RATING (FUSE)                                  | NF      | NON-FUSED                                              |
| AIC        | AMPERE INTERRUPTING CAPACITY                               | NIC     | NOT IN CONTRACT                                        |
| AS         | AMPERE SWITCH RATING (FUSE)                                | N/L     | NIGHT LIGHT                                            |
| AT         | AMPERE TRIP RATING (CIRCUIT BREAKER)                       | NO      | NUMBER, NORMALLY OPEN                                  |
| AWG        | AMERICAN WIRE GAUGE                                        | NTS     | NOT TO SCALE                                           |
| BKBD       | BACKBOARD                                                  | OC      | ON CENTER                                              |
| BLDG       | BUILDING                                                   | OD      | OUTSIDE DIAMETER                                       |
| BKR        | BREAKER                                                    | P       | POLE                                                   |
| C          | CONDUIT                                                    | PB      | PULL BOX                                               |
| CB         | CIRCUIT BREAKER                                            | PF      | POWER FACTOR                                           |
| CKT        | CIRCUIT                                                    | PNL     | PANEL                                                  |
| CFSD       | COMBINATION FIRE SMOKE DAMPER                              | POC     | POINT OF CONNECTION                                    |
| CO         | CONDUIT ONLY                                               | PP      | POWER POLE                                             |
| CONC       | CONCRETE                                                   | PWR     | POWER                                                  |
| CT         | CURRENT TRANSFORMER                                        | PVC     | POLYVINYL CHLORIDE                                     |
| CU         | COPPER                                                     | QUAD    | QUADRUPLEX                                             |
| CL         | CENTERLINE                                                 | QTY     | QUANTITY                                               |
| DISC       | DISCONNECT                                                 | REQD    | REQUIRED                                               |
| DSBN       | DISTRIBUTION SECTION                                       | REQMT   | REQUIREMENT                                            |
| DN         | DOWN                                                       | RGS     | RIGID GALVANIZED STEEL                                 |
| DWG        | DRAWING                                                    | RMC     | RIGID METALLIC CONDUIT                                 |
| EA         | EACH                                                       | RM      | ROOM                                                   |
| EC         | ELECTRICAL CONTRACTOR                                      | RNC     | RIGID NONMETALLIC CONDUIT                              |
| EM         | EMERGENCY                                                  | SHT     | SHEET                                                  |
| EMT        | ELECTRICAL METALLIC TUBING                                 | SN      | SOLID NEUTRAL                                          |
| EXIST. (E) | EXISTING                                                   | SPEC    | SPECIFICATIONS                                         |
| EXO        | EXTERNAL OPERABLE DISCONNECT                               | SPDT    | SINGLE POLE, DOUBLE THROW                              |
| F          | FUSE                                                       | SPST    | SINGLE POLE, SINGLE THROW                              |
| FA         | FIRE ALARM                                                 | SW      | SWITCH                                                 |
| FACP       | FIRE ALARM CONTROL PANEL                                   | SWBD    | SWITCHBOARD                                            |
| FF         | FINISHED FLOOR                                             | TC      | TIME CLOCK                                             |
| FG         | FINISHED GRADE                                             | TEL     | TELEPHONE                                              |
| FLA        | FULL LOAD CURRENT                                          | TERM    | TERMINAL                                               |
| FLUOR      | FLUORESCENT                                                | TP      | TEMPORARY POLE                                         |
| GEC        | GROUNDING ELECTRODE CONDUCTOR                              | TYP     | TYPICAL                                                |
| GEN        | GENERATOR                                                  | UGPS    | UNDERGROUND PULL SECTION                               |
| GFCI       | GROUND FAULT CIRCUIT INTERRUPTER                           | UL      | UNDERWRITERS LABORATORY                                |
| GFP        | GROUND FAULT PROTECTION                                    | UPS     | UNINTERRUPTIBLE POWER SUPPLY                           |
| GND        | GROUND                                                     | UON     | UNLESS OTHERWISE NOTED                                 |
| HOA        | HAND-OFF-AUTOMATIC                                         | V       | VOLT, VOLTAGE                                          |
| HP         | HORSE POWER                                                | VA      | VOLT-AMPERE                                            |
| HV         | HIGH VOLTAGE                                               | VFC     | VARIABLE FREQUENCY CONTROLLER                          |
| IDF        | INTERMEDIATE DISTRIBUTION FRAME                            | VFD     | VARIABLE FREQUENCY DRIVE                               |
| IG         | ISOLATED/INSULATED GROUND                                  | W       | WATT                                                   |
| INCAND     | INCANDESCENT                                               | WH      | WATT-HOUR                                              |
| ISC        | SHORT CIRCUIT CURRENT AVAILABLE IN RMS SYMMETRICAL AMPERES | WP      | WEATHERPROOF                                           |
| J-BOX      | JUNCTION BOX                                               | WT      | WEATHERTIGHT                                           |
| KCMIL      | THOUSAND CIRCULAR MILS                                     | WW      | WIREWAY                                                |
| KW         | KILOWATT                                                   | XP      | EXPLOSION PROOF                                        |
| KV         | KILO VOLT                                                  | Z       | IMPEDANCE                                              |
| KVA        | KILO VOLT-AMPERE                                           |         |                                                        |
| LDC        | LOCAL DISTRIBUTION CABINET                                 | 4W      | FOUR-WIRE                                              |
| LDF        | LOCAL DISTRIBUTION FRAME                                   | 3W      | THREE-WIRE                                             |
| LCL        | LONG CONTINUOUS LOAD                                       | SS      | JUNCTION BOX                                           |
| LTG        | LIGHTING                                                   |         | (4 11/16" SQUARED X2 1/8" DEEP)                        |
| LV         | LOW VOLTAGE                                                | Ø       | DIAMETER, PHASE                                        |
| MFR        | MANUFACTURER                                               | #       | NUMBER                                                 |
| MAX        | MAXIMUM                                                    | °C      | DEGREE CELSIUS                                         |
| MCC        | MOTOR CONTROL CENTER                                       | (E)     | EXISTING DEVICE TO REMAIN                              |
| MIN        | MINIMUM                                                    | (R)     | REMOVE EXISTING DEVICE AND ASSOCIATED CONDUIT AND WIRE |
| MH         | MANHOLE / METAL HALIDE                                     | (RL)    | REMOVE EXISTING DEVICE AND RELOCATE AS SHOWN ON PLAN   |
| M/M        | METER AND MAIN SECTION                                     | (NL)    | NEW LOCATION OF RELOCATED DEVICE                       |
| MULTI      | MULTI-METER SECTION                                        |         |                                                        |
| MV         | MEDIUM VOLTAGE                                             |         |                                                        |
| NC         | NORMALLY CLOSED                                            |         |                                                        |

## CODES

- 2025 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
- 2025 CALIFORNIA BUILDING CODE (CBC),PART 2, TITLE 24 C.C.R. (IBC WITH AMENDMENTS)
- 2025 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (NEC WITH AMENDMENTS)
- 2025 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. (UMC WITH AMENDMENTS)
- 2025 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (UPC WITH AMENDMENTS)
- 2025 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (IFC WITH AMENDMENTS)
- 2025 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
- 2025 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
- 2025 CALIFORNIA ENERGY CODE (PART 6, TITLE 24 C.C.R.)
- 2025 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSG), PART 11, TITLE 24 C.C.R.



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### owner approval

| initials | date     | phase |
|----------|----------|-------|
|          | 00/00/00 | --    |

### revisions/addenda

| mark | date     | comment |
|------|----------|---------|
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MENTAL HEALTH SUITE - TENANT  
IMPROVEMENTS  
900 EAST WASHINGTON STREET  
COLTON, CA 92324

COLTON JOINT USD - FACILITIES  
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### project information

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## LEGENDS AND NOTES

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E-001

SHEET OF XX SHEETS

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STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in §160.5, §170.2(e) and §180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name:

Mental Health T.I.

Report Page:

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Project Address:

900 East Washington Street

Date Prepared:

6/25/2026

A. GENERAL INFORMATION

|                                                  |                                                         |                                           |    |                                      |       |
|--------------------------------------------------|---------------------------------------------------------|-------------------------------------------|----|--------------------------------------|-------|
| 01                                               | Project Location (city)                                 | Colton                                    | 04 | Total Conditioned Floor Area (ft²)   | 5,197 |
| 02                                               | Climate Zone                                            | 9                                         | 05 | Total Unconditioned Floor Area (ft²) | 0     |
| 03                                               | Occupancy Types Within Project (select all that apply): | 06 # of Stories (Habitable Above Grade) 1 |    |                                      |       |
| • Office • Support Areas • All Other Occupancies |                                                         |                                           |    |                                      |       |

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 / §170.2(e) or §141.0(b)2 / §180.2(b)4 for alterations.

| Scope of Work                                                 | Conditioned Spaces   |            | Unconditioned Spaces |            |
|---------------------------------------------------------------|----------------------|------------|----------------------|------------|
| 01                                                            | 02                   | 03         | 04                   | 05         |
| My Project Consists of (check all that apply):                |                      |            |                      |            |
| <input checked="" type="checkbox"/> New Lighting System       | Calculation Method   | Area (ft²) | Calculation Method   | Area (ft²) |
| <input type="checkbox"/> New Lighting System - Parking Garage | Area Category Method | 5197       | Area Category Method | 0          |
| Total Area of Work (ft²)                                      |                      | 5197       | 0                    |            |

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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

|        |                           |                                                   |        |                  |                                  |                       |    |                          |                          |
|--------|---------------------------|---------------------------------------------------|--------|------------------|----------------------------------|-----------------------|----|--------------------------|--------------------------|
| Office | Office (>250 square feet) | Readily Accessible and located in the same space. | Dimmer | Occupancy Sensor | NA: Rm < 24sf Glazing            | NA: Rm < 24sf Glazing | No | <input type="checkbox"/> | <input type="checkbox"/> |
|        |                           |                                                   |        |                  | 13                               |                       |    |                          |                          |
|        |                           |                                                   |        |                  | Plan Sheet Showing Daylit Zones: |                       |    |                          |                          |

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

| Conditioned Spaces |                                                          |                         |            |                         |                                                           |
|--------------------|----------------------------------------------------------|-------------------------|------------|-------------------------|-----------------------------------------------------------|
| 01                 | 02                                                       | 03                      | 04         | 05                      | 06                                                        |
| Area Description   | Complete Building or Area Category Primary Function Area | Allowed Density (W/ft²) | Area (ft²) | Allowed Wattage (Watts) | Additional Allowance / Adjustment<br>Area CategoryPAF PAF |
| Storage            | All Other Space Types                                    | 0.4                     | 398        | 159.2                   | No No                                                     |
| Conference         | Convention, Conference, Multipurpose and Meeting Center  | 0.75                    | 777        | 582.8                   | No No                                                     |
| Corridor           | Corridor                                                 | 0.4                     | 1,178      | 471.2                   | No No                                                     |
| Reception          | Main Entry Lobby                                         | 0.7                     | 628        | 439.6                   | No No                                                     |
| Office             | Office (>250 square feet)                                | 0.6                     | 2,075      | 1,245                   | No No                                                     |
| Rest Rooms         | Restroom                                                 | 0.65                    | 111        | 72.2                    | No No                                                     |
| IDF 303            | Copy Room                                                | 0.7                     | 30         | 21                      | No No                                                     |
| TOTALS:            |                                                          |                         | 5,197      | 2,991                   | See Tables J, or P for detail                             |

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

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C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

| Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1 / §170.2(e) | Allowed Lighting Power per §140.6(b) / §170.2(e) (Watts) |                                       |                                                         |                       | ≥     | Adjusted Lighting Power per §140.6(a) / §170.2(e) (Watts) |                                                           |                                                 | Compliance Results |                                     |          |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------|---------------------------------------------------------|-----------------------|-------|-----------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------|--------------------|-------------------------------------|----------|
|                                                                                                                 | 01                                                       | 02                                    | 03                                                      | 04                    |       | 05                                                        | 06                                                        | 07                                              |                    |                                     |          |
|                                                                                                                 | Complete Building §140.6(c)1                             | Area Category §140.6(c)2 / §170.2(e)4 | Area Category Additional §140.6(c)2G / §170.2(e)4Av (+) | Total Allowed (Watts) |       | Total Designed (Watts)                                    | Adjustments                                               | Total Adjusted (Watts)<br>*Includes Adjustments |                    |                                     |          |
|                                                                                                                 |                                                          |                                       |                                                         |                       |       |                                                           | PAF Lighting Control Credits §140.6(a)2 / §170.2(e)1B (-) |                                                 |                    |                                     |          |
| (See Table I)                                                                                                   | (See Table I)                                            | (See Table J)                         | =                                                       | 2,991                 | ≥     | (See Table F)                                             | (See Table P)                                             | =                                               | 2990               | 05 must be >= 08 §140.6 / §170.2(e) |          |
| Conditioned                                                                                                     |                                                          | 2,991                                 | 0                                                       | =                     | 2,991 | ≥                                                         | 2,990                                                     | 0                                               | =                  | 2990                                | COMPLIES |
| Unconditioned                                                                                                   |                                                          |                                       |                                                         | =                     |       | ≥                                                         |                                                           |                                                 | =                  |                                     |          |
| Controls Compliance (See Table H for Details)                                                                   |                                                          |                                       |                                                         |                       |       |                                                           |                                                           |                                                 |                    |                                     | COMPLIES |
| One-for-one Luminaire Alterations Compliance (See Table Q for Details)                                          |                                                          |                                       |                                                         |                       |       |                                                           |                                                           |                                                 |                    |                                     |          |

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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STATE OF CALIFORNIA

Indoor Lighting

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Project Name:

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6/25/2026

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

| Building Level Controls              |                                                          |                                                   |                                              |                                           |                                                     |                                               |                                              |                          |                          |
|--------------------------------------|----------------------------------------------------------|---------------------------------------------------|----------------------------------------------|-------------------------------------------|-----------------------------------------------------|-----------------------------------------------|----------------------------------------------|--------------------------|--------------------------|
| 01                                   | 02                                                       | 03                                                |                                              |                                           |                                                     |                                               |                                              |                          |                          |
| Mandatory Demand Response §110.12(c) | Shut-off controls §130.1(c) / §160.5(b)4C                | Field Inspector                                   |                                              |                                           |                                                     |                                               |                                              |                          |                          |
|                                      |                                                          | Pass                                              | Fail                                         |                                           |                                                     |                                               |                                              |                          |                          |
| NA < 4,000W subject to multilevel    | See Area/Space Level Controls (Column 8)                 | <input type="checkbox"/>                          | <input type="checkbox"/>                     |                                           |                                                     |                                               |                                              |                          |                          |
| Area Level Controls                  |                                                          |                                                   |                                              |                                           |                                                     |                                               |                                              |                          |                          |
| 04                                   | 05                                                       | 06                                                | 07                                           | 08                                        | 09                                                  | 10                                            | 11                                           | 12                       |                          |
| Area Description                     | Complete Building or Area Category Primary Function Area | Manual Controls §130.1(a) / §160.5(b)4A           | Multi-Level Controls §130.1(b) / §160.5(b)4B | Shut-Off Controls §130.1(c) / §160.5(b)4C | Primary/Sky lit Daylighting §130.1(d) / §160.5(b)4D | Secondary Daylighting §130.1(d) / §160.5(b)4D | Interlocked Systems §140.6(a)1 / §170.2(e)2A | Field Inspector          |                          |
|                                      |                                                          |                                                   |                                              |                                           |                                                     |                                               |                                              | Pass                     | Fail                     |
| Entry                                | Main Entry Lobby                                         | Readily Accessible and located in the same space. | Dimmer                                       | Occupancy Sensor                          | Included                                            | Included                                      | No                                           | <input type="checkbox"/> | <input type="checkbox"/> |
| Storage                              | All Other Space Types                                    | Readily Accessible and located in the same space. | Dimmer                                       | Occupancy Sensor                          | NA: Rm < 24sf Glazing                               | NA: Rm < 24sf Glazing                         | No                                           | <input type="checkbox"/> | <input type="checkbox"/> |
| Restrooms                            | Restroom                                                 | Readily Accessible and located in the same space. | NA: Restrooms                                | Occupancy Sensor                          | NA: Rm < 24sf Glazing                               | NA: Rm < 24sf Glazing                         | No                                           | <input type="checkbox"/> | <input type="checkbox"/> |
| Hall Ways                            | Corridor                                                 | Readily Accessible and located in the same space. | Dimmer                                       | Occupancy Sensor                          | NA: Rm < 24sf Glazing                               | NA: Rm < 24sf Glazing                         | No                                           | <input type="checkbox"/> | <input type="checkbox"/> |

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CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance

Report Version: 2025.0.000  
Schema Version: rev 20250101

Compliance ID: EPR-11152-0626-0017  
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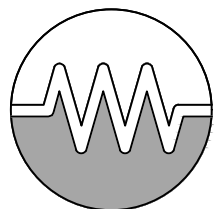
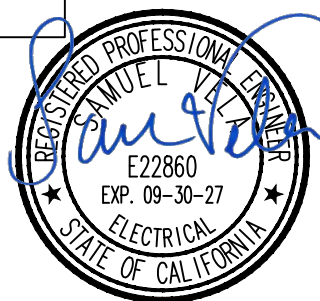
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MENTAL HEALTH SUITE - TENANT IMPROVEMENTS  
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project information

PROJECT NO: 2600013.RA  
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CHECKED BY: GWM  
DRAWING SCALE:  
DATE: 5/20/2026



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STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

Project Name: Mental Health T.I.

Report Page: (Page 6 of 8)

Date Prepared: 6/25/2026

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. ONE-FOR-ONE LUMINAIRE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title

NRCI-LTI-E - Must be submitted for all buildings

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Project Name: Mental Health T.I.

Report Page: (Page 7 of 8)

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V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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Form/Title

Systems/Spaces To Be Field Verified

NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.

Entry; Storage; Restrooms; Hall Ways; Office;

NRCA-LTI-03-A - Must be submitted for daylight responsive controls.

Entry;

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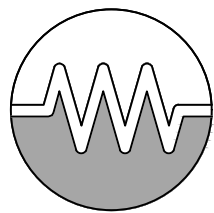
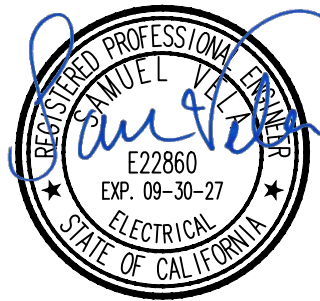
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KEYNOTES

- 1. TIE INTO EXISTING CIRCUIT.
- 2. XRAY BOXES TO BE REMOVED. WALL TO BE REPATCHED AND REPAINTED.

GENERAL NOTES

- 1. COORDINATE POWER AND DATA DEVICE LOCATIONS, AND DEVICE PLATE COLOR WITH ARCHITECT.
- 2. NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN A SPACE EXTENDING FROM FLOOR TO A HEIGHT OF 6' ABOVE THE EQUIPMENT. CEC 110.26(E)1.
- 3. ALL PATIENT CARE RECEPTACLES AND FIXED EQUIPMENT SHALL BE GROUNDED BY AN INSULATED COPPER CONDUCTOR. IN ADDITION THE CIRCUITS SERVING PATIENT CARE RECEPTACLES AND FIXED EQUIPMENT SHALL BE INSTALLED IN A METAL RACEWAY, WHICH QUALIFIES AS AN EQUIPMENT GROUNDING RETURN PATH IN ACCORDANCE CEC 250-118.
- 4. ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE NEMA 3R.



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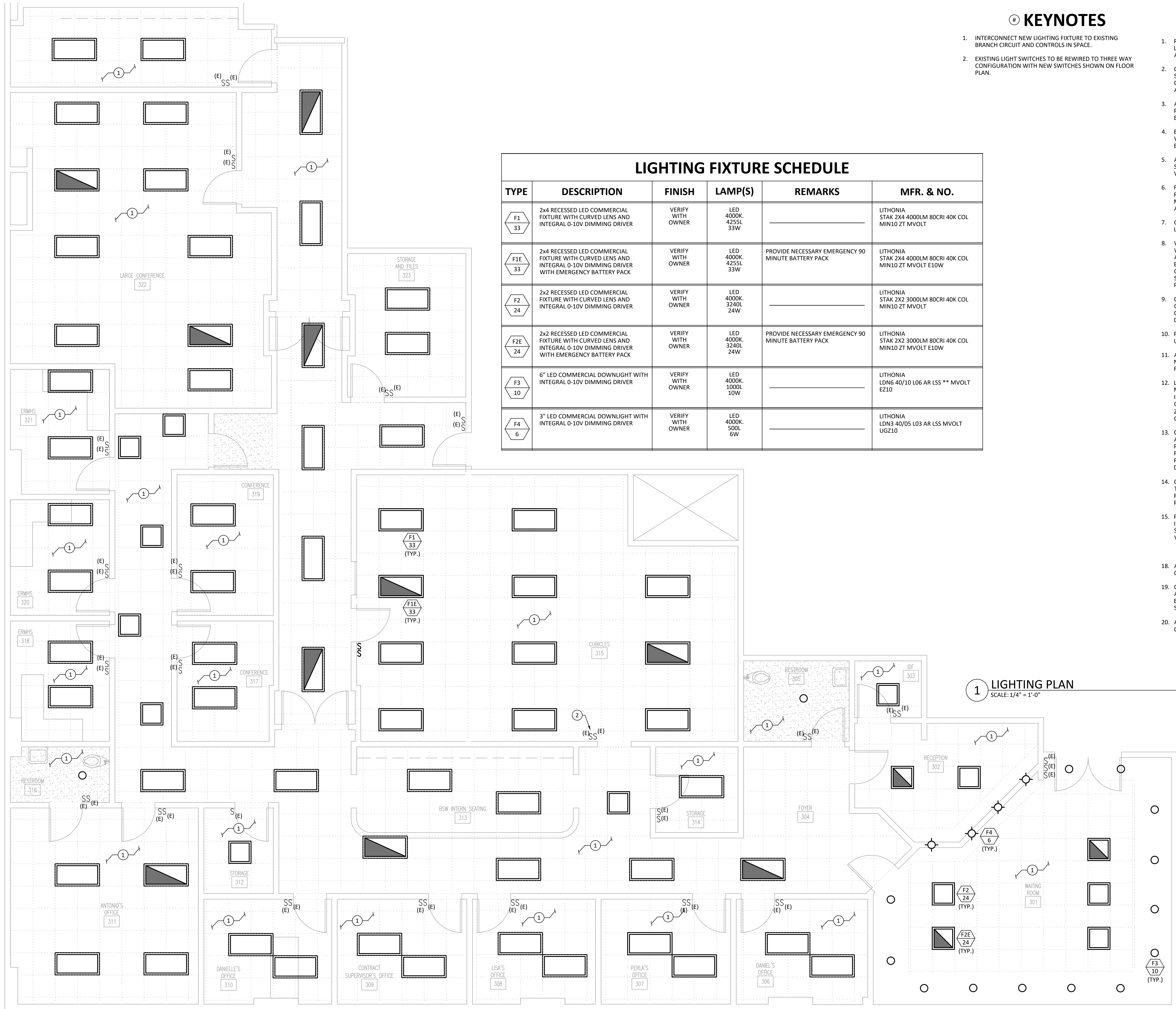
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POWER & SIGNAL PLAN

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E-101



## # KEYNOTES

1. INTERCONNECT NEW LIGHTING FIXTURE TO EXISTING BRANCH CIRCUIT AND CONTROLS IN SPACE.
2. EXISTING LIGHT SWITCHES TO BE REWIRED TO THREE WAY CONFIGURATION WITH NEW SWITCHES SHOWN ON FLOOR PLAN.

## GENERAL NOTES

1. REFER TO ARCHITECTURAL PLANS FOR EXACT LIGHT FIXTURE LOCATIONS. DEVICE HEIGHTS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING MOTION SENSOR AND DAYLIGHT SENSOR LAYOUT FOR PROPER COVERAGE. MOTION SENSOR SHOULD NOT BE INSTALLED IN A WAY THAT CAUSES ACTIVATION OUT OF CONTROL AREA.
3. ALL LINE VOLTAGE DIMMING BRANCH CIRCUITS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH CONTROL ZONE.
4. BATTERY PACKS SHOWN ON DRAWINGS ARE TO BE PROVIDED WITH DEDICATED CONSTANTLY ENERGIZED CONDUCTOR FOR BATTERY PACK CHARGING.
5. ALL RECESSED FIXTURES SHALL BE PROVIDED WITH ALL STRUCTURAL SUPPORTS AS REQUIRED BY THE IBC, OR CBC WHERE ADOPTED, IN ADDITION TO ANY LOCAL CODES.
6. FINAL MOUNTING LOCATIONS OF ALL OCCUPANCY AND PHOTOCELL DEVICES SHALL COORDINATED WITH MANUFACTURERS RECOMMENDATIONS AND FIELD ADJUSTED WITH REPRESENTATIVE AS NECESSARY.
7. COORDINATE LIGHT FIXTURE LOCATIONS AND LIGHT SWITCH LOCATIONS, COLOR, AND STYLE WITH ARCHITECT.
8. WHERE MOTION SENSORS ARE SHOWN ON PLANS, VERIFY WATTAGE AND COVERAGE OF PRODUCT PROVIDED IS ADEQUATE FOR SPACE TO BE CONTROLLED. COVERAGE IS TO BE ADJUSTED TO AVOID ACCIDENTAL ACTIVATION OUTSIDE OF AREA. VERIFY WIRING REQUIREMENTS TO MOTION SENSORS, RELAY PACKS, ETC WITH PRODUCT BEING PROVIDED.
9. CONTRACTOR SHALL REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR THE EXACT SCOPE OF WORK. EXACT QUANTITY AND LOCATIONS OF LIGHT FIXTURES SHALL BE DETERMINED FROM THE ARCHITECTURAL DRAWINGS.
10. PROVIDE DEDICATED NEUTRAL FOR ALL LIGHTING CIRCUITS U.O.N.
11. ALL SWITCHES LOCATIONS SHALL BE FIELD COORDINATED AS NOT TO BE INTERFERED BY OR BE INSTALLED BEHIND DOORS, FURNITURE, ETC.
12. LOW VOLTAGE CONTROL SWITCH, WHERE THERE ARE MULTIPLE ZONES, SWITCH NUMBER AND SUBSCRIPT INDICATES ZONES CONTROLLED (EX. 'A' INDICATES CONTROL OF ONE ZONE, 'A,B' INDICATES CONTROL OF TWO ZONES. ZONE 'A' AND ZONE 'B'). PROVIDE ON/OFF AND RAISE/LOWER CONTROL FUNCTIONS FOR EACH ZONE.
13. CEILING MOUNTED PHOTOCELL. PHOTOCELL SHALL AUTOMATICALLY DIM FIXTURES WITHIN DAYLIGHT ZONE. SET PHOTOCELL TO MAINTAIN 30FC. DASHED LINE INDICATES FIXTURES WITHIN DAYLIGHT ZONE. FOR ROOMS WITH A PHOTOCELL AND NO DASHED LINE, ENTIRE ROOM IS DAYLIGHT ZONE.
14. CORRIDOR/OPEN OFFICE CIRCUIT TO BE CONTROLLED VIA TIME OF DAY SCHEDULING. COORDINATE SCHEDULING REQUIREMENTS WITH OWNER. CONTROL SWITCHES TO BE PROGRAMMED FOR MAXIMUM 2-HOUR OVERRIDE.
15. PROVIDE AND INSTALL LIGHTING CONTROL RELAY PANEL IN IDF ROOM ACCEPTABLE MANUFACTURERS SHALL BE SENSOR SWITCH, QUANTITY AS REQUIRED PER LIGHTING CONTROL VENDOR.
  - 120V SUPPLY INPUT.
  - 120/277 VOLT RATED RELAYS
18. ALL LOW VOLTAGE CABLING TO LIGHTING FIXTURES AND CONTROL DEVICES SHALL BE PLENUM RATED.
19. CONTRACTOR SHALL CONFIRM ALL EXIT SIGN LOCATIONS AND DIRECTIONAL CHEVRONS WITH THE ARCHITECTURAL EGRESS PLANS AND REFLECTED CEILING PLANS. ALL EXIT SIGNS SHALL HAVE AN UNSWITCHED HOT.
20. ALL SWITCHES SHALL HAVE ON/OFF AND DIMMER CAPABILITIES FOR EACH LIGHTING ZONE



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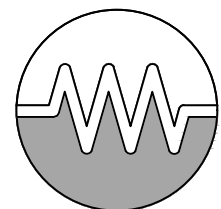
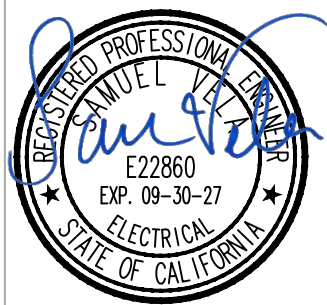
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## LIGHTING PLAN

## sheet number

E-201



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# ELECTRICAL SPECIFICATIONS

## PART 1 GENERAL

### 1.01 SCOPE OF WORK

A. WORK COVERED BY THIS SECTION CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, SUPPLIES, AND MATERIALS, UNLESS OTHERWISE SPECIFIED, AND IN PERFORMING ALL OPERATIONS NECESSARY FOR THE INSTALLATION OF A COMPLETE AND OPERABLE ELECTRICAL SYSTEM AS REQUIRED BY THESE SPECIFICATIONS AND AS INDICATED ON THE DRAWINGS.

B. THE CONTRACTOR SHALL EXAMINE ALL DRAWINGS AND SPECIFICATIONS IN A MANNER TO BE FULLY COGNIZANT OF ALL WORK REQUIRED UNDER THIS SECTION.

C. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS UNLESS OTHERWISE ARRANGED AND SCHEDULE ALL REQUIRED INSPECTIONS FOR THE EXECUTION OF THE WORK UNDER THIS CONTRACT.

### 1.02 GENERAL REQUIREMENTS

A. WORK DONE UNDER THIS SECTION SHALL COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE, NEC (NATIONAL ELECTRICAL CODE), THE STATE OF CALIFORNIA TITLE 24, THE STATE BUILDING STANDARDS, (OSHA) OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, AND TO ANY APPLICABLE LOCAL JURISDICTIONAL REQUIREMENTS. IN CASE OF CONFLICT BETWEEN REQUIREMENT, THE MOST RESTRICTIVE SHALL APPLY.

### 1.03 ELECTRICAL CONTRACTOR'S RESPONSIBILITY

A. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL CHECK THE DRAWINGS OF THE OTHER TRADES AND SHALL CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE HIS RESPONSIBILITIES.

B. BEFORE SUBMITTING THE BID, THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FULLY ACQUAINT HIMSELF WITH EXISTING CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL THE EQUIPMENT AND ASSOCIATED WIRING IN SUCH A MANNER AS TO CONFORM WITH THE EXISTING STRUCTURE OF THE BUILDING, AVOID OBSTRUCTIONS, AND MEET APPLICABLE CODE REQUIREMENTS.

C. THE INTENT OF THESE DRAWINGS IS TO DESCRIBE A COMPLETE AND OPERABLE SYSTEM. WHERE EXISTING CONDITIONS DIFFER FROM DRAWINGS, ADJUSTMENT SHALL BE MADE AND ALLOWANCES INCLUDED FOR ALL NECESSARY EQUIPMENT TO COMPLETE ALL PARTS OF THE DRAWINGS AND SPECIFICATIONS. BRING ANY QUESTIONS TO THE ARCHITECT OR ENGINEER'S ATTENTION PRIOR TO BIDDING.

D. WHEREVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT, DEVICES, CIRCUIT BREAKERS, ETC., ARISES ON THE DRAWING AND/OR SPECIFICATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITION NOTED ON DRAWINGS AND/OR IN SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ENGINEER.

### 1.04 WORK NOT INCLUDED

A. CERTAIN LABOR, MATERIALS, OR EQUIPMENT MAY BE FURNISHED UNDER OTHER CONTRACTS BY THE OWNER. WHEN SUCH IS THE CASE, THE EXTENT, SOURCE, AND DESCRIPTION OF THESE ITEMS WILL BE INDICATED ON THE DRAWINGS OR DESCRIBED IN THE SPECIFICATIONS. UNLESS OTHERWISE NOTED, ALL LABOR, MATERIALS AND EQUIPMENT FOR THE COMPLETE INSTALLATION OF THE ELECTRICAL WORK SHALL BE PROVIDED UNDER THIS SECTION OF THESE SPECIFICATIONS.

### 1.05 SPECIAL REQUIREMENTS

A. THE DRAWINGS INDICATE GENERAL ARRANGEMENT OF CIRCUITS, OUTLETS, LOCATIONS OF MOTOR CONTROLLERS WITH DISCONNECTS, PANELBOARDS, CONDUIT ROUTING, AND OTHER WORK. INFORMATION SHOWN ON THE DRAWINGS IS ESSENTIALLY DIAGRAMMATIC; HOWEVER, RE-CIRCUITING OR RELOCATING ELECTRICAL EQUIPMENT WILL NOT BE PERMITTED WITHOUT SPECIFIC WRITTEN APPROVAL OF THE ENGINEER.

### 1.06 SUBMITTALS

A. AFTER AWARD OF THE CONTRACT AND BEFORE ANY MATERIALS ARE DELIVERED TO THE JOB SITE, A COMPLETE LIST OF ALL MATERIALS PROPOSED TO BE FURNISHED AND INSTALLED UNDER THIS SECTION MUST BE PROVIDED.

B. SUBMIT TO THE ENGINEER FOR APPROVAL ONE PRINT AND ONE REPRODUCIBLE OF ALL LIGHTING FIXTURES, SWITCHGEAR, PANELBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, AND MOTOR STARTERS. SHOP DRAWINGS SHALL INCLUDE MANUFACTURER'S PRINTED INFORMATION FOR EACH OF THESE ITEMS IDENTIFIED ON THE DRAWINGS. THE INFORMATION SHALL INCLUDE, AS MINIMUM, OVERALL DIMENSIONS, WEIGHT, PHASE, VOLTAGE RATINGS, WIRING DIAGRAMS, AND NAMEPLATE DATA.

### 1.07 STANDARDS AND MATERIALS

A. ALL MATERIALS SHALL CONFORM WITH THE CURRENT APPLICABLE INDUSTRY STANDARDS, NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION), ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE), IPCEA (INSULATED POWER CABLE ENGINEERS ASSOCIATION), IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS), NATIONAL ELECTRICAL SAFETY CODE.

B. UNLESS OTHERWISE INDICATED, ALL MATERIALS SHALL BE UNDERWRITERS LABORATORIES LISTED AND LABELED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

C. WORKMANSHIP AND NEAT APPEARANCE SHALL BE AS IMPORTANT AS THE ELECTRICAL MECHANICAL EFFICIENCY. DEFECTIVE AND DAMAGED MATERIALS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL APPROVAL AND ACCEPTANCE. THE DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT THAN CODES, STATUTES, OR ORDINANCES IN EFFECT, APPLICABLE CODES, STANDARDS, ORDINANCES, AND STATUTES TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH THE DRAWINGS OR SPECIFICATIONS.

### 1.08 DELIVERY AND STORAGE OF MATERIALS

A. THE CONTRACTOR SHALL INVESTIGATE EACH SPACE IN THE BUILDING THROUGH WHICH EQUIPMENT MUST PASS TO REACH ITS FINAL LOCATIONS. IF NECESSARY, THE MANUFACTURER SHALL BE REQUIRED TO SHIP HIS MATERIAL IN SECTIONS, SIZED TO PERMIT PASSING THROUGH SUCH RESTRICTED AREAS IN THE BUILDING.

B. THE CONTRACTOR SHALL RETAIN IN HIS POSSESSION AND SHALL BE RESPONSIBLE FOR ALL PORTABLE AND DETACHABLE PARTS OF PORTIONS OF INSTALLATIONS SUCH AS FUSES, KEY LOCKS, ADAPTERS, BLOCKING CLIPS, AND INSERTS UNTIL FINAL COMPLETION OF WORK. THESE PARTS SHALL BE DELIVERED TO THE OWNER UPON COMPLETION OF THE WORK.

## PART 2 PRODUCTS

### 2.01 EQUIPMENT AND MATERIALS

A. ALL MATERIALS FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE NEW, FREE FROM DEFECTS, AND SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE OF THE WORK. SHOULD ANY TROUBLE DEVELOP DURING THEIR PERIOD DUE TO DEFECTIVE MATERIALS OR FAULTY WORKMANSHIP, THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS AND LABOR TO CORRECT THE TROUBLE WITHOUT ANY COST TO THE OWNER. ANY DEFECTIVE MATERIAL OR INFERIOR WORKMANSHIP NOTED AT THE TIME OF INSTALLATION SHALL BE CORRECTED IMMEDIATELY TO THE SATISFACTION OF THE OWNER.

B. ALL MAJOR EQUIPMENT COMPONENTS SHALL HAVE THE MANUFACTURER'S NAME, ADDRESS, MODEL NUMBER, AND SERIAL NUMBER PERMANENTLY ATTACHED IN A CONSPICUOUS MANNER.

### 2.02 CONDUIT

A. PROVIDE RACEWAYS AS INDICATED ON THE DRAWINGS AND AS HEREIN SPECIFIED. CONDUITS SHALL BE RIGID STEEL "GR" (THICK WALL) GALVANIZED, ELECTRICAL METALLIC TUBING "EMT" (THIN WALL), FLEXIBLE STEEL, GALVANIZED, LIQUID-TIGHT, FLEXIBLE STEEL CONDUIT WITH GROUND BOND; ALUMINUM CONDUIT; OR SCHEDULE 40 PVC.

B. ALL EMPTY CONDUITS (CO) SHALL BE SCHEDULE 40 PVC UNLESS OTHERWISE INDICATED ON THE DRAWING.

C. WHERE CONDUIT CROSSES AN EXPANSION JOINT, PROVIDE APPROVED FITTINGS WHICH ALLOW DEFLECTIONS EQUIVALENT TO TWICE THE MOVEMENT ALLOWED BY THE DESIGN.

### 2.03 CONDUCTORS

A. PROVIDE A COMPLETE SYSTEM OF CONDUCTORS IN RACEWAY SYSTEMS AS SHOWN ON THE DRAWINGS AND THEN HEREIN SPECIFIED.

B. LIGHTING AND POWER CONDUCTORS SHALL BE COPPER, 600 VOLT, TYPE THWN/THHN, NO. 12 MINIMUM UNLESS OTHERWISE NOTED.

C. CONTROL CONDUCTORS SHALL BE 600V, TYPE THWN/THHN, NO. 14 MINIMUM SIZE UNLESS OTHERWISE NOTED.

### 2.04 FITTINGS

A. CONNECTOR, COUPLING, LOCKOUT, BUSHINGS AND CAPS USED WITH RIGID CONDUIT SHALL BE STEEL, THREADED AND GALVANIZED. BUSHINGS SHALL BE INSULATED.

B. EMT FITTINGS, CONNECTORS AND COUPLINGS SHALL BE STEEL, ZINC, OR CADMIUM PLATED, COMPRESSION TYPE, WITH INSULATED THROAT.

C. FLEXIBLE STEEL CONDUIT CONNECTORS SHALL BE TWIST-IN-TYPE WITH INSULATED THROAT. THE FINISH SHALL BE ZINC OR CADMIUM PLATING.

D. EMT CONDUIT FITTINGS SHALL BE THE COMPRESSION TYPE; SET SCREW FITTINGS SHALL NOT BE USED.

### 2.05 JUNCTION AND PULL BOXES

A. FOR INTERIOR DRY LOCATIONS, BOXES SHALL BE GALVANIZED ONE-PIECE DRAWN STEEL, KNOCKOUT TYPE WITH REMOVABLE, MACHINE SCREW SECURED COVERS.

B. ALL BOXES SHALL BE SIZED FOR THE NUMBER AND SIZES OF CONDUCTORS AND CONDUITS ENTERING THE BOX AND EQUIPPED WITH PLASTER RINGS WHERE REQUIRED.

### 2.06 OUTLET BOXES

A. FOR FIXTURES, BOXES SHALL BE GALVANIZED, ONE-PIECE DRAWN STEEL, KNOCKOUT TYPE EQUIPPED WITH 3/8" FITTURE STUDS AND PLASTER RINGS WHERE REQUIRED.

B. FOR CONVENIENCE OUTLETS, WALL SWITCHES, OR OTHER DEVICES, OUTLET BOXES SHALL BE GALVANIZED ONE-PIECE DRAWN STEEL, KNOCKOUT TYPE 4"x4"x1-1/2" MINIMUM.

C. FOR LOCATIONS WHERE STANDARD BOXES ARE NOT SUITABLE, SPECIAL BOXES SHALL BE DESIGNED TO FIT SPACE OR MEET OTHER REQUIREMENTS AND SUBMITTED FOR APPROVAL.

### 2.07 SWITCHES

A. ALL DEVICES SHALL CONFORM TO NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA) STANDARDS AND SHALL BE UNDERWRITERS LABORATORIES, INC. (UL) LISTED AND LABELED AND SHALL BE "SPECIFICATION GRADE," MEETING THE REQUIREMENTS OF FEDERAL SPECIFICATION WS-896-E, FOR SWITCHES.

1. WALL SWITCHES SHALL BE SPECIFICATION COMMERCIAL GRADE (MINIMUM), FULLY ENCLOSED, QUIET-TYPE TUMBLER SWITCHES RATED 20 AMPERES, 120/277-VOLT, BAKELITE OR COMPOSITION, BACK AND SIDE WIELD, BUMPER PAD, PULL RATING FOR INDUCTIVE OR NON-INDUCTIVE LOADS AND INCANDESCENT OR FLUORESCENT LIGHTING LOADS.

2. SINGLE POLE SWITCHES: G.E. 59511, HUBBELL #1221, ARROW #1991 OR PASS & SEYMOUR 20AC1.

3. THREE-WAY QUIET SWITCHES: G.E. 59531, HUBBELL #1223, ARROW #1993 OR PASS& SEYMOUR 20AC3.

4. WALL SWITCH AND PILOT LIGHTS SHALL BE FLUSH MOUNTED COMBINATION WALL TYPE WITH SWITCH AND PILOT LIGHT EQUIPPED WITH A 6-WATT, 125-VOLT CANDELABRA BASE LAMP. THE PILOT LIGHT SHALL HAVE A GREEN JEWEL WITH BRASS RIM FLUSH MOUNTED IN THE WALL PLATE.

5. ALL SWITCHES SHALL BE OF THE SAME MANUFACTURE.

6. NORMAL SWITCH COLOR IS WHITE APPROVED BY ARCHITECT/OWNER. SWITCHES CONTROLLING CIRCUITS CONNECTED TO EMERGENCY POWER SOURCE SHALL BE RED.

7. 30 AMP MOTOR RATED SNAP SWITCHES SHALL BE LEVITON MS302-DS. PROVIDED IN NEMA 1 OR 3R ENCLOSURE AS SHOWN ON DRAWING.

8. SENSOR SWITCH (MOTION SENSOR)

1. WALL SENSOR SWITCH SHALL BE WATT STOPPER DUAL TECHNOLOGY OCCUPANCY SENSOR LEVITON MODEL #05MT-GD (FOR SINGLE POLE SWITCHING) & LEVITON MODEL #05SD-GD FOR (DUAL SWITCHING).

2. CEILING SENSOR SWITCH SHALL BE WATT STOPPER DUAL-TECHNOLOGY MODEL.

3. PROVIDE 120/277V CEILING SENSOR POWER PACK INSTALLED IN J-BOX NEXT TO LIGHTING CIRCUIT.

### 2.08 RECEPTACLES

A. DUPLEX RECEPTACLES SHALL BE SPECIFICATION GRADE, 20 AMPS, 125 VOLTS, 3-WIRE, SIDE-WIRED WITH BINDING SCREWS, PARALLEL SLOTS, U-GROUND, PLASTER EARS AND CAPTIVE MOUNTING SCREWS. BODY SHALL BE PHENOLIC, PLASTIC, OR BAKELITE. RECEPTACLES SHALL BE HEAVY-DUTY, 3-BLADE CURRENT CARRYING CONTACT AND DOUBLEWIDE FLAT BLADE GROUND CONTACTS. PROVIDE ARROW HART 5242-J HUBBELL 5242-J OR LEVITON 5242-J.

B. SINGLE RECEPTACLES SHALL BE SPECIFICATION GRADE, GROUNDING TYPE, SIDE-WIRED, WITH BINDING SCREWS, AND SHALL HAVE STANDARD SIZE IVORY BAKELITE BASE. FOR CIRCUITS, CONSISTING OF ONE SINGLE RECEPTACLE ONLY, AMPERE RATING OF RECEPTACLE SHALL BE THE SAME AS CIRCUIT BREAKER OF FUSE. FOR RECEPTACLES RATED 15 AMPS/125 VOLTS, PROVIDE NEMA 5-15R, ARROW-HART 5251-L. FOR RECEPTACLES RATED 20 AMPS / 125 VOLTS, PROVIDE NEMA 5-20R, ARROW-HART 5721-L, OR EQUAL.

### 2.09 DEVICE PLATES

1. PROVIDE PLATES FOR ALL SWITCHES, RECEPTACLES, JUNCTION BOXES, TELEPHONE AND OTHER OUTLETS.

2. PROVIDE ENGRAVED OR ETCHED PLATES FOR ALL LOCK SWITCHES, PILOT SWITCHES, SWITCHES FROM WHICH EQUIPMENT OR CIRCUIT CONTROLLED CANNOT BE READILY SEEN, THREE OR MORE SWITCHES UNDER A COMMON PLATE AND FOR SWITCHES AS INDICATED.

3. STAINLESS STEEL PLATES SHALL BE AMERICAN IRON AND STEEL INSTITUTE (AISI) TYPE 302, WITH BEVELED EDGES, 0.040" THICK WITH SAIN SMOOTH FINISH. "SMOOTHIE," HUBBELL #97071 SERIES.

4. PLASTIC COVER PLATE SHALL BE HIGH IMPACT THERMOPLASTIC, HIGH STRENGTH, SCRATCH-RESISTANT, SMOOTH AND SELF-EXTINGUISHING, HUBBELL "PI" SERIES OR PASS & SEYMOUR RP SERIES.

5. WHERE OUTLETS ARE INDICATED TO BE WEATHERPROOF, PROVIDE AN AISI TYPE 302 STAINLESS WITH DOUBLE HINGED COVERS, PASS & SEYMOUR #WPD-8.

6. GALVANIZED STEEL PLATES SHALL BE SQUARE OR RECTANGULAR AND HOT DIPPED GALVANIZED OR SHERARDIZED, BEVELED EDGES AND 0.040" THICK. GALVANIZED STEEL PLATES SHALL BE USED IN UTILITY AREA.

7. PROVIDE PLATES EQUIPPED WITH CLOSE FITTING OPENINGS FOR THE EXACT DEVICE TO BE USED. PROVIDE PLATES FOR TELEPHONE OUTLETS EQUIPPED WITH BUSHED OPENINGS.

8. REFER TO SECTION 3.08 FOR LABELING OF PLATES.

9. COVER PLATES ON PRESSED STEEL OUTLET BOXES IN FURRED AREAS, ATTICS, ETC., OR EXPOSED IN MECHANICAL EQUIPMENT ROOMS SHALL BE OF THE SAME MATERIAL AS THE OUTLET BOX.

10. COVER PLATES IN LOCATIONS CONCEALED FROM PUBLIC VIEW SHALL HAVE THE CIRCUIT NUMBERS AND SOURCE FEED POINT HAND LABELED WITH MARKING BLACK PEN (PERMANENT MARKER). SEE SECTION 3.08 FOR LABELING.

11. PROVIDE PLASTIC COVER PLATES UNLESS NOTED OTHERWISE

### 2.10 PANELBOARDS

A. FURNISH AND INSTALL ALL BRANCH CIRCUIT PANELBOARDS AS HEREINAFTER SPECIFIED AND AS SHOWN ON THE DRAWINGS. PANELBOARDS SHALL BE OF THE DEAD FRONT SAFETY TYPE EQUIPPED WITH THE THERMAL MAGNETIC 40°C CIRCUIT BREAKERS.

B. CIRCUIT BREAKERS SHALL BE RATED MINIMUM 10,000 AMPS RMS SYMMETRICAL INTERRUPTING CAPACITY AND SHALL BE THE NUMBER OF POLES AND CURRENT CAPACITY AS INDICATED ON THE PANEL SCHEDULE. BRANCH CIRCUIT PANELBOARDS SHALL BE SQUARE-D OR Eaton/CUTLER HAMMER WITH LUGS UL LISTED FOR USE WITH 75°C WIRE.

C. DOOR SHALL HAVE A PLASTIC COVERED DIRECTORY FRAME WITH A TYPED IDENTIFICATION CARD OR ALL CIRCUIT AND PANEL NUMBERS FOR BRANCH CIRCUIT PANELBOARDS.

D. PROVIDE NAMEPLATE FOR ALL PANELBOARDS, ENGRAVED WHITE LETTERS ON BLACK BACKGROUND INSTALL NAME PLATES ON THE TRIM ABOVE DOOR.

E. ALL WIRING SHALL BE NEATLY ARRANGED AND LACED TOGETHER.

F. ALL CIRCUIT BREAKERS USED FOR HVAC LOADS SHALL BE RATED "HACR".

G. BUS BARS SHALL BE RECTANGULAR IN CROSS SECTION CONSTRUCTED OF COPPER. NEUTRAL AND GROUND BUSES SHALL BE FULL SIZE.

### 2.11 INTERIOR LIGHTING FIXTURES

A. FURNISH, INSTALL AND WIRE LIGHTING FIXTURES SCHEDULED OR INDICATED BY TYPE DESIGNATION ON THE DRAWINGS. IF TYPE DESIGNATION IS OMITTED, FIXTURES SHALL BE OF THE SAME TYPE AS SHOWN FOR ROOMS OF SIMILAR USAGE. VERIFY BEFORE PURCHASE AND INSTALLATION. NO ALTERNATIVE FIXTURES WILL BE ACCEPTED.

B. LOCATIONS OF FIXTURES ON ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. VERIFY LOCATION AND SPACING WITH ARCHITECTURAL REFLECTED CEILING PLANS AND OTHER REFERENCE DATA BEFORE PURCHASING. COORDINATE SPACE CONDITIONS, INCLUDING HEADROOM CLEARANCES AND INTERFERENCES WITH CEILING COMPONENTS SUCH AS DUCTS, OPENINGS, BEAMS AND PIPING PRIOR TO INSTALLATION.

C. CHECK THE ARCHITECTURAL FINISHES AND, REGARDLESS OF THE CATALOG PREFIXES AND SUFFIXES SHOWN, FURNISH FIXTURES WITH THE PROPER TRIM, FRAMES, SUPPORTS, HANGERS AND OTHER MISCELLANEOUS APPURTENANCES OR PROPERLY COORDINATE WITH SAID FINISHES. WHERE REQUIRED, FURNISH REINFORCING FOR CEILING CONSTRUCTION TO SUPPORT THE WEIGHT OF THE FIXTURES.

D. FIXTURES SHALL BE FREE OF LIGHT LEAKS AND DESIGNED TO PROVIDE SUFFICIENT VENTILATION OF LAMPS AND BALLASTS, INCLUDING VENT HOLES WHERE REQUIRED. OUTDOOR FIXTURES WITH VENT HOLES SHALL HAVE WIRE MESH SCREENS IN THE VENT HOLES.

E. REPLACE BLEMISHED, DAMAGED OR UNSATISFACTORY FIXTURES AT NO ADDITIONAL COST TO THE OWNER AND IN A MANNER SATISFACTORY TO THE ARCHITECT.

### F. LAMPS

1. LAMPS SHALL BE NEW AND OF WATTAGE AND TYPE INDICATED OR AS REQUIRED FOR THE PARTICULAR FIXTURE INSTALLED.

2. UNLESS OTHERWISE NOTED, LAMPS DESCRIBED IN FIXTURE SCHEDULE, ANSI NOMENCLATURE, MANUFACTURED BY GENERAL ELECTRIC, SYLVANIA, PHILLIPS, OR EQUAL.

3. PROVIDE INCANDESCENT LAMPS AND TUNGSTEN-HALOGEN LAMPS AS 130 VOLT RATED WHENEVER SUCH DESIGNS ARE AVAILABLE.

4. PROVIDE FLUORESCENT LAMPS AS INDICATED ON THE DRAWINGS. ALL LINEAR FLUORESCENT LAMPS ARE TO BE INSTALLED WITH THE LABEL FACING THE SAME DIRECTION.

5. PROVIDE HIGH INTENSITY DISCHARGE (H.I.D.) LAMPS OF TYPE AND WATTAGE AS SHOWN ON THE DRAWINGS. LAMPS SHALL BE COMPATIBLE WITH FIXTURE BALLAST. MANUFACTURERS: G.E. CO., PHILLIPS, SYLVANIA, OR EQUAL.

### G. LED LIGHT FIXTURES

A. GENERAL:

1. LED LIGHT FIXTURES SHALL BE IN ACCORDANCE WITH IES, NFPA, UL, AS SHOWN ON THE DRAWINGS, AND AS SPECIFIED.

2. LED LIGHT FIXTURES SHALL BE REDUCTION OF HAZARDOUS SUBSTANCES (ROHS)-COMPLIANT.

3. LED DRIVERS SHALL INCLUDE THE FOLLOWING FEATURES UNLESS OTHERWISE INDICATED:

a. MINIMUM EFFICIENCY: 85% AT FULL LOAD.

b. MINIMUM OPERATING AMBIENT TEMPERATURE: -20 DEG C (-4 DEG F.)

c. INPUT VOLTAGE: 120 - 277V (±10%) AT 60 HZ.

d. INTEGRAL SHORT CIRCUIT, OPEN CIRCUIT, AND OVERLOAD PROTECTION.

e. POWER FACTOR: ≥0.95.

f. TOTAL HARMONIC DISTORTION: <=20%.

g. COMPLY WITH FCC 47 CFR PART 15.

4. LED MODULES SHALL INCLUDE THE FOLLOWING FEATURES UNLESS OTHERWISE INDICATED:

a. COMPLY WITH IES LM-79 AND LM-80 REQUIREMENTS.

b. MINIMUM CRI 80 AND COLOR TEMPERATURE 4000K UNLESS OTHERWISE SPECIFIED IN LUMINAIRE SCHEDULE.

c. MINIMUM RATED LIFE: 50,000 HOURS PER IES L70.

d. LIGHT OUTPUT LUMENS AS INDICATED IN THE LUMINAIRE SCHEDULE.

### B. LED DOWNLIGHTS:

1. HOUSING, LED DRIVER, AND LED MODULE SHALL BE PRODUCTS OF THE SAME MANUFACTURER.

### C. LED TROFFERS:

1. LED DRIVERS, MODULES, AND REFLECTOR SHALL BE ACCESSIBLE, SERVICEABLE, AND REPLACEABLE FROM BELOW THE CEILING.

2. HOUSING, LED DRIVER, AND LED MODULE SHALL BE PRODUCTS OF THE SAME MANUFACTURER.

### 2.12 LOW VOLTAGE SWITCHGEAR

A. FURNISH AND INSTALL ALL SWITCHBOARDS AS HEREINAFTER SPECIFIED AND AS SHOWN ON THE DRAWINGS. SWITCHBOARDS SHALL BE OF THE DEAD FRONT SAFETY TYPE EQUIPPED WITH THE THERMAL MAGNETIC 40°C CIRCUIT BREAKERS.

B. CIRCUIT BREAKERS SHALL BE RATED MINIMUM 10,000 AMPS RMS SYMMETRICAL INTERRUPTING CAPACITY AND SHALL BE THE NUMBER OF POLES AND CURRENT CAPACITY AS INDICATED ON THE SINGLE LINE DIAGRAM. SWITCHBOARDS SHALL BE SQUARE-D, GE, OR Eaton/CUTLER HAMMER.

C. LABEL EACH SWITCHBOARD COMPARTMENT WITH ENGRAVED METAL OR LAMINATED-PLASTIC NAMEPLATE WITH WHITE LETTERS ON BLACK BACKGROUND, MOUNTED WITH CORROSION-RESISTANT SCREWS.

D. ENCLOSURE FINISH FOR OUTDOOR UNITS: NEMA 3R WEATHERPROOF ENCLOSURE WITH FACTORY-APPLIED FINISH IN MANUFACTURER'S STANDARD COLOR, UNDERSURFACES TREATED WITH CORROSION-RESISTANT UNDERCOATING.

E. ENCLOSURE FINISH FOR INDOOR UNITS: FACTORY-APPLIED FINISH IN MANUFACTURER'S STANDARD GRAY FINISH OVER A RUST-INHIBITING PRIMER ON TREATED METAL SURFACE.

F. BARRIERS: BETWEEN ADJACENT SWITCHBOARD SECTIONS.

G. UTILITY METERING COMPARTMENT: FABRICATED COMPARTMENT AND SECTION COMPLYING WITH UTILITY COMPANY'S REQUIREMENTS. IF SEPARATE VERTICAL SECTION IS REQUIRED FOR UTILITY METERING, MATCH AND ALIGN WITH BASIC SWITCHBOARD.

H. BUS TRANSITION AND INCOMING PULL SECTIONS: MATCHED AND ALIGNED WITH BASIC SWITCHBOARD.

I. BUSES AND CONNECTIONS: THREE PHASE, FOUR WIRE, UNLESS OTHERWISE INDICATED.

1. PHASE- AND NEUTRAL-BUS MATERIAL: HARD-DRAWN COPPER OF 98 PERCENT CONDUCTIVITY WITH FEEDER CIRCUIT-BREAKER LINE CONNECTIONS. IF BUS IS COPPER, USE COPPER FOR FEEDER CIRCUIT-BREAKER LINE CONNECTIONS.

2. LOAD TERMINALS: INSULATED, RIGIDLY BRACED, SILVER-PLATED, COPPER RUNBACK BUS EXTENSIONS EQUIPPED WITH PRESSURE CONNECTORS FOR OUTGOING CIRCUIT CONDUCTORS. PROVIDE LOAD TERMINALS FOR FUTURE CIRCUIT-BREAKER POSITIONS AT FULL AMPERE RATING OF CIRCUIT-BREAKER POSITION.

3. GROUND BUS: 1/4-BY-2-INCH (6-BY-50-MM) MINIMUM-SIZE, HARD-DRAWN COPPER OF 98 PERCENT CONDUCTIVITY, EQUIPPED WITH PRESSURE CONNECTORS FOR FEEDER AND BRANCH-CIRCUIT GROUND CONDUCTORS. FOR BUSWAY FEEDERS, EXTEND INSULATED EQUIPMENT GROUNDING CABLE TO BUSWAY GROUND CONNECTION AND SUPPORT CABLE AT INTERVALS IN VERTICAL RUN.

4. CONTACT SURFACES OF BUSES: SILVER PLATED.

5. MAIN PHASE BUSES, NEUTRAL BUSES, AND EQUIPMENT GROUND BUSES: UNIFORM CAPACITY FOR ENTIRE LENGTH OF SWITCHBOARD'S MAIN AND DISTRIBUTION SECTIONS. PROVIDE FOR FUTURE EXTENSIONS FROM BOTH ENDS.

6. ISOLATION BARRIER ACCESS PROVISIONS: PERMIT CHECKING OF BUS-BOLT TIGHTNESS.

7. NEUTRAL BUSES: 100 PERCENT OF THE AMPACITY OF PHASE BUSES, UNLESS OTHERWISE INDICATED, EQUIPPED WITH PRESSURE CONNECTORS FOR OUTGOING CIRCUIT NEUTRAL CABLES. BUS EXTENSIONS FOR BUSWAY FEEDER NEUTRAL BUS ARE BRACED.

P. FUTURE DEVICES: EQUIP COMPARTMENTS WITH MOUNTING BRACKETS, SUPPORTS, BUS CONNECTIONS, AND APPURTENANCES AT FULL RATING OF CIRCUIT-BREAKER COMPARTMENT.

Q. EQUIP DISTRIBUTION SECTIONS WITH FULL HEIGHT VERTICAL BUSSING TO ACCOMMODATE MAXIMUM UTILIZATION OF SPACE FOR DEVICES.

### 2.13 CIRCUIT AND MOTOR DISCONNECTS

A. DISCONNECT (SAFETY) SWITCHES SHALL BE FUSED, HEAVY DUTY TYPE SWITCHES MEETING NEMA SPECIFICATIONS. SWITCHES SHALL BE PROVIDED WITH REJECTION TYPE FUSE BLOCKS. PROVIDE SWITCHES WITH THE NUMBER OF POLES, THE VOLTAGE, CURRENT AND HORSEPOWER RATINGS AS REQUIRED. PROVIDE EXTERNALLY OPERABLE QUICK-MAKE, QUICK-BREAK TYPE MECHANISM WITH COVER INTERLOCK AND PADLOCKABLE IN EITHER THE OPEN OR CLOSED POSITION.

B. SWITCHES SHALL BE NEMA 3R (RAIN TIGHT ENCLOSURE) WHERE INDICATED TO BE OUTDOORS WEATHERPROOF.

C. PROVIDE NAMEPLATE INDICATING EQUIPMENT SERVED. ALL GENERAL SNAP SWITCHES OPERATING MOTOR LOADS SHALL BE HORSEPOWER RATED OR BE RATED AT LEAST 125% OF THE FULL LOAD CURRENT.

### 2.15 ELECTRICAL CONNECTIONS

A. UNLESS OTHERWISE NOTED, ALL WIRING FOR MOTORS, STARTERS, CONTROLS, AND EQUIPMENT SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR, WHERE MOTORS FOR MECHANICAL EQUIPMENT ARE FURNISHED BY OTHER DIVISIONS, WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR, EXCEPT WHERE WIRED INTEGRALLY WITH THE EQUIPMENT.

B. CONNECTION AND CONTROL DIAGRAMS FOR ALL MECHANICAL AND CONTROL EQUIPMENT SHALL BE FURNISHED UNDER OTHER DIVISIONS, AND BE APPROVED BY THE OWNER FOR CONNECTION BY THE ELECTRICAL CONTRACTOR.

2.16 SUPPORTING DEVICES

A. ALL EQUIPMENT CONDUITS SHALL BE SUPPORTED, ANCHORED AND BRACED IN ACCORDANCE WITH THE MOST STRINGENT CODES AND REQUIREMENTS. COMPLY WITH CHAPTER 23 OF THE LATEST CBC (CALIFORNIA BUILDING CODE).

## PART 3 EXECUTION

### 3.01 WORKMANSHIP AND COMPLETION OF INSTALLATION

A. WORKMANSHIP AND NEAT APPEARANCE SHALL BE AS IMPORTANT AS THE ELECTRICAL AND MECHANICAL EFFICIENCY. DEFECTIVE AND DAMAGED MATERIALS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL INTERPRETATIONS INCLUDED. ANY DEFICIENCY PERTAINING TO EITHER WORKMANSHIP OR MATERIALS FOUND BY THE INSPECTOR SHALL BE CORRECTED WITHOUT ADDITIONAL COST TO THE OWNER.

B. THE CONTRACTOR SHALL MAINTAIN ON JOB SITE A SET OF THE WORKING DRAWINGS WHICH SHALL BE UPDATED DAILY IN DETAIL FOR WORK ACCOMPLISHED. UPON COMPLETION OF THE WORK, A SET OF REPRODUCIBLE CONTRACT DRAWINGS SHALL BE OBTAINED FROM THE GENERAL CONTRACTOR AND ALL CHANGES AS NOTED ON THE RECORD SET OF PRINTS SHALL BE INCORPORATED THEREON WITH RED INK IN A NEAT, LEGIBLE, UNDERSTANDABLE AND PROFESSIONAL MANNER.

C. ALL EQUIPMENT AND MATERIAL CONNECTED WITH THIS PROJECT SHALL BE INSTALLED COMPLETE, THOROUGHLY CLEANED, AND ALL RESIDUE REMOVED FROM INSIDE SURFACES, EXTERIOR SURFACES OF ALL MATERIAL AND EQUIPMENT SHALL BE CLEANED AND DELIVERED IN A PERFECT, UNBLEMISHED CONDITION.

D. UPON COMPLETION OF THE INSTALLATION AND AS A CONDITION OF ITS ACCEPTANCE FURNISH ONE COPY OF THE FINAL INSPECTION CERTIFICATE TO THE OWNER.

### 3.02 PREPARATION COORDINATION.

A. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH ALL OTHER CONTRACTORS FURNISHING LABOR, MATERIALS AND WORK, SO THAT THE WORK AS WHOLE SHALL BE EXECUTED AND COMPLETED WITHOUT CONFLICT OR DELAY.

B. EXAMINE THE DRAWINGS AND SPECIFICATIONS AND DETERMINE THE WORK TO BE PERFORMED BY THE ELECTRICAL, MECHANICAL AND OTHER TRADES. PROVIDE THE TYPE AND AMOUNT OF ELECTRICAL MATERIALS AND EQUIPMENT NECESSARY TO PLACE THIS WORK IN PROPER OPERATION, COMPLETELY WIRED TESTED AND READY FOR USE. THIS SHALL INCLUDE ALL CONDUIT, WIRE, DISCONNECTS, RELAYS, AND OTHER DEVICES FOR THE REQUIRED OPERATION. SEQUENCE OF ALL ELECTRICAL, MECHANICAL, AND OTHER SYSTEMS OR EQUIPMENT.

C. PERFORM ALL WORK IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO THE OCCUPANTS, NOR INTERFERE WITH THE ACTIVITIES IN THE BUILDING.

D. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE EACH POWER INTERRUPTION WITH OWNER, AND SHALL PROVIDE AT LEAST TWO WEEKS NOTICE OF PROPOSED INTERRUPTION AND WORK TO BE ACCOMPLISHED.

### 3.04 CORE CUTTING, DRILLING, AND PATCHING

A. NO HOLES WILL BE ALLOWED IN ANY STRUCTURAL MEMBERS WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT OR STRUCTURAL ENGINEER AND GENERAL CONTRACTOR.

C. WHERE LIGHTING FIXTURES AND OTHER ELECTRICAL ITEMS ARE SHOWN IN CONFLICT WITH LOCATIONS OF STRUCTURAL MEMBERS AND MECHANICAL OR OTHER EQUIPMENT, FURNISH AND INSTALL ALL REQUIRED SUPPORTS AND WIRING TO CLEAR THE ENCROACHMENT.

D. VERIFY LOCATION OF EACH OUTLET FOR POWER, SIGNAL, TELEPHONE/DATA, AND EACH LIGHTING FIXTURE WITH ARCHITECT PRIOR TO ROUGH-IN. INCLUDE IN BID COST OF RELOCATING EACH ITEM WITHIN TEN-FEET RADIUS OF ITS INDICATED LOCATION.

E. ALL CONDUIT TO BE RUN CONCEALED UNLESS OTHERWISE NOTED. ALL CONDUITS SHALL BE ROUTED OVERHEAD IN CEILING SPACES. NO CONDUITS SHALL BE PERMITTED IN CONCRETE SLAB, MASONRY WALLS UNLESS SPECIFICALLY SO INDICATED. CONDUIT SHALL BE RUN SO AS NOT TO INTERFERE WITH OTHER PIPING FIXTURES OR EQUIPMENT.

F. WHERE ALLOWED, EXPOSED CONDUIT RUNS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS, STRUCTURAL MEMBERS, OR INTERSECTION OF VERTICAL PLANES AND CEILINGS.

G. ALL ELECTRICAL CONDUITS AND OTHER ELECTRICAL RACEWAYS PASSING THROUGH FIRE RATED CEILINGS, SLABS, CABLE TRAYS, WALLS AND PARTITIONS SHALL BE SEALED TO PREVENT THE SPREAD OF FIRE, SMOKE, AND GASSES. USE A UL LISTED AND APPROVED FIRE-STOP MATERIAL EQUAL TO RATING OF A WALL OR A FLOOR SLAB PENETRATED; INSTALLATION OF FIRE-STOP MATERIAL SHALL BE IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

H. UNLESS WRITTEN PERMISSION IS GRANTED BY THE ARCHITECT, NO MATERIAL SHALL BE MOUNTED ON THE EXTERIOR WALLS OR PARAPET TOP OF THE BUILDING.

I. ALL ROTATING ELECTRICAL EQUIPMENT SHALL BE SUPPLIED WITH A FLEXIBLE, LIQUID-TIGHT CONDUIT WITH APPROPRIATE SLACK AND SHALL NOT EXCEED THIRTY-SIX (36) INCHES.

J. ALL POWER WIRING SHALL BE INSTALLED IN CONDUIT.

K. TELEPHONE WIRES SHALL BE PLENUM RATED CABLE FOR MOUNTING IN CEILING SPACES WITHOUT CONDUIT UNLESS OTHERWISE NOTED.

L. ALL WIRES FOR ALL SYSTEMS SHALL BE CONTINUOUS FROM SWITCH TO TERMINAL OR FURTHEST OUTLET. NO JOINTS SHALL BE MADE EXCEPT IN PULL, JUNCTION OR OUTLET BOXES, OR IN PANEL OR SWITCHBOARD GUTTERS.

M. ALL RECEPTACLE, CONTROL DEVICE, AND SWITCH MOUNTING HEIGHTS SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.

## 3.06 GROUNDING

A. ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AS INDICATED ON DRAWINGS AND AS REQUIRED BY THE LATEST EDITION OF APPLICABLE CODES.

B. FURNISH AND INSTALL ALL GROUNDING CONDUCTORS, CONDUIT AND CLAMPS. THE SIZE OF THE GROUNDING CONDUCTORS SHALL BE NOT LESS THAN THAT SPECIFIED IN THE NEC.

C. BUILDING GROUNDING SYSTEM RESISTANCE TO GROUND SHALL NOT EXCEED 25 OHMS.

D. EACH BRANCH CIRCUIT SHALL BE EQUIPPED WITH CODE SIZE GREEN GROUND, EQUIPMENT WIRE (PER NEC 250-95) (NOT INDICATED ON DRAWINGS) WITHIN THE SAME CONDUIT FOR ALL CIRCU