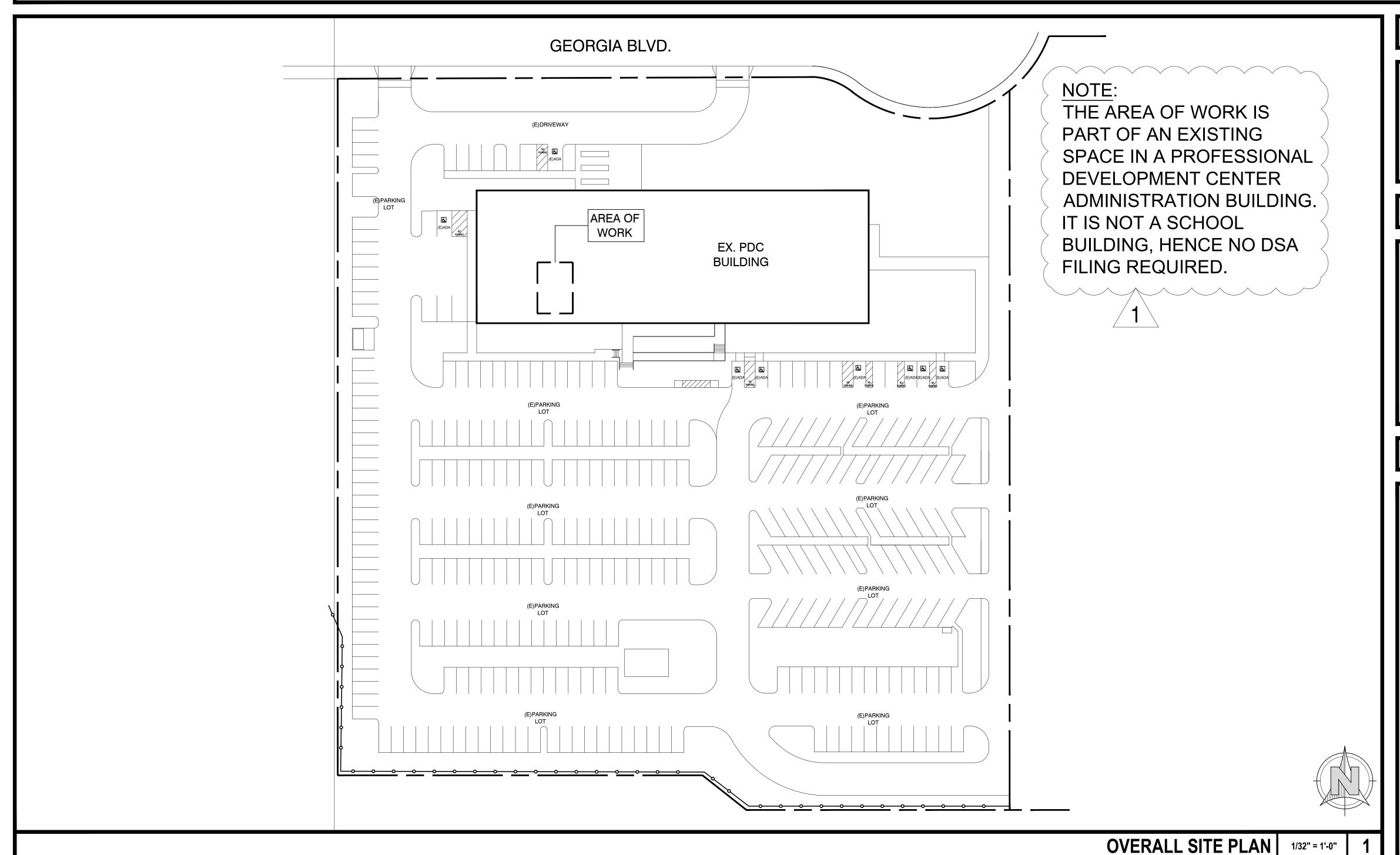
PROFESSIONAL DEVELOPMENT CENTER BLDG. INTERIOR RENOVATIONS

4030 GEORGIA BLVD., SAN BERNARDINO, CA 92407

SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT



ROUGH OPENING

SPLASH BLOCK

TOP OF PAVING

TYPICAL NOTED

VINYL TILE

WOOD

WDW WINDOW

SHEET INDEX

DOOR WINDOW SCHEDULES & DETAILS

MECHANICAL DEMO & FLOOR PLAN

CEILING DETAILS

SCOPE OF WORK

PROPOSED INTERIOR RENOVATIONS TO EXISTING OFFICE SPACE

GENERAL NOTES & OVERALL SITE PLAN FLOOR PLAN REFLECTED CEILING PLAN

SYMBOLS, NOTES, SPECS, TITLE 24 FORMS PARTIAL LIGHTING & POWER/ SIGNAL PLANS

PROJECT DIRECTORY **BUILDING INFORMATION**

BUILDING AREA 55,408.0 SFT T.I. WORK AREA 960.0 SFT OCCUPANCY GROUP PER OCCUPANT FOR 'B' 100 GROSS MAX. OCCUPANT LOAD 960 / 100 = 9.6 ~ 9 PERSONS MAX

LIENT / OWNER: 751 N. FAIR OAKS AVE., SUITE 201 PASADENA, CA 91103 SAN BERNARDINO, CA 92410 (626) 696-3850 **BRAD SEVERSON**

820 N. MOUNTAIN AVE., SUITE 200 UPLAND, CALIFORNIA 91786 (909) 985-6939 (909) 985-0864 FAX RICHARD DUNCAN rduncan@dcarchitects.net

751 N. FAIR OAKS AVE., SUITE 201 PASADENA, CA 91103

(626) 696-3850 DAVE L. EVANS devans123@earthlink.net

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES:

PROPOSED OCCUPANT LOAD

2016 California Building Standards Administrative Code (CBSAC), Title 24 C.C.R. Part 2 2016 California Building Code (CBC), Title 24 C.C.R.

(2015 International Building Code of the International Code Council with California Amendments)

2016 California Electrical Code (CEC), Title 24 C.C.R. (2014 National Electrical Code of the National Fire Protection Association, NFPA)

2016 California Mechanical Code (CMC), Title 24 C.C.R. (2015 Uniform Mechanical Code of the International Association of Plumbing and Mechanical Officials, IAPMO)

2016 California Plumbing Code (CPC), Title 24 C.C.R. (2015 Uniform Plumbing Code of the International Association of Plumbing and

Mechanical Officials, IAPMO) 2016 California Energy Code, Title 24 C.C.R. 2016 California Fire Code (CFC), Title 24 C.C.R.

(2015 International Fire Code of the International Code Council) 2016 California Existing Building Code, Title 24 C.C.R.

2016 California Green Building Standards Code (CALGreen Code), Title 24 C.C.R.

2016 California Referenced Standards Code (CRSC), Title 24 C.C.R. C.C.R., Public Safety, State Fire Marshall Regulations.

PARTIAL LIST OF APPLICABLE STANDARDS:

NFPA Standards — 2016 California Building Code (SFM) Chapter 35

Dry Chemical Extinguishing Systems Wet Chemical Extinguishing Systems 2016 Edition NFPA 17A 2016 Edition NFPA 20 Stationary Pumps 2016 Edition NFPA 24 2016 Edition Private Fire Service Mains (California Amended) NFPA 72

National Fire Alarm Code (California Amended) 2016 Edition Fire Door and Other Opening Protectives 2016 Edition Clean Agent Fire Extinguishing Systems 2015 Edition

ABBREVIATIONS

MARKERBOARD

MISCELLANEOUS

PRELIMINARY

POUNDS PER SQUARE FOOT

POLYVINYLCHLORIDE

POUNDS PER SQUARE INCH UNO UNLESS OTHERWISE

PROPERTY

RETURN AIR

RADIUS

EQUIP EST

EXIST

ESTIMATED

EXISTING

INTERIOR

KNOCK DOWN KNOCK OUT

LAMINATED

LINEAR FOOT

LAVATORY

INVERT

INT

LAM

LAV

ARCH ARCHITECTURAL

DECOMPOSED

DEMOLITION

DEPARTMENT

ELEVATION

ELEV

GENERAL NOTES

NFPA 2001

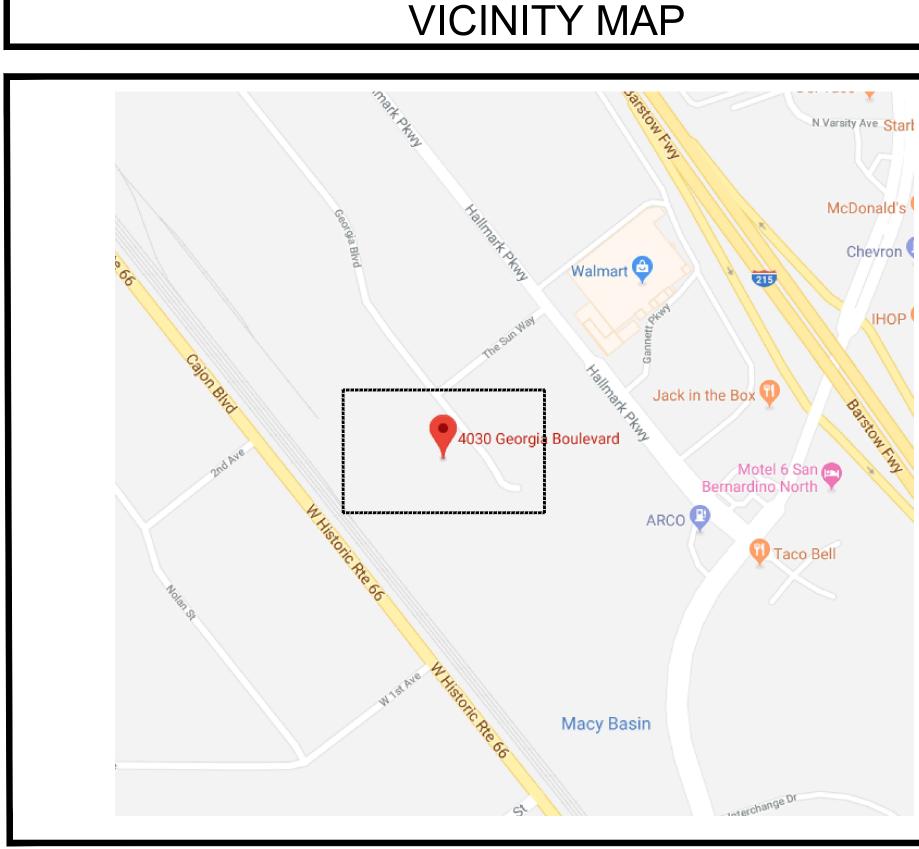
EXISTING MOUNTED SOLID CORE SECT SEG SGE **EXPANSION** MOUNTING SECTION BETWEEN BLOCKING EXTERIOR MULLION SEGMENT воттом SEMI GLOSS ENAMEL SGL SHR SHTG SIM BOTH SIDES SINGLE NOT APPLICABLE SHOWER **FIXTURE** SIMILAR SINK FACE OF FINISH OUTSIDE DIAMETER SPECIFICATION OPPOSITE HAND SQ SSK FACE OF STUD ABINET SQUARE FLOOR SINK SERVICE SINK OVAL HEAD WOOD SCREW FOOT OR FEET STREET CHALKBOARD OPENING CEMENT OPP **OPPOSITE** STAGGERED STD STIF STIR CERAMIC OPT **OPTIONAL** STANDARD GLB GLUE LAMINATED BEAM GR BM GRADE BEAM CURB FACE STIFFENER STIRRUP CAST IRON OWNER FURNISHED, GYPSUM CONTRACTOR INSTALLED CAST IRON PIPE CONSTRUCTION JOINT H&CW HOT & COLD WATER STRUCT STRUCTURAL CENTERLINE OWNER INSTALLED SUSP SUSPENDED CEILING HOSE BIB ADA SYM SYMMETRICAL CONCRETE MASONRY UNIT HEADER PERFORATED HDR POST INDICATOR VALVE CLEANOUT HARDWARE TOP & BOTTOM TONGUE & GROOVE COLUMN HOLLOW METAL PACKAGE PKG COMPOSITION HORIZONTAL PLANTER TACKBOARD PLASTER TOP OF CURB CONCRETE PLAS HEATER PROPERTY LINE CONNECTION TELEPHONE HTR CONSTR CONSTRUCTION HOT WATER PLUMBING TEMPERED HYDRANT TERM TERMINAL CONTINUOUS PLYWOOD HYD PLYWD CONTROL PANEL PANEL THICK THICKNESS PNL COUNTERSINK PAIR THRES THRESHOLD INSIDE DIAMETER PREFAB PREFABRICATED INCH THROUGH INSULATION PREFINISHED TOW TOP OF WALL

PROP

PT

RA

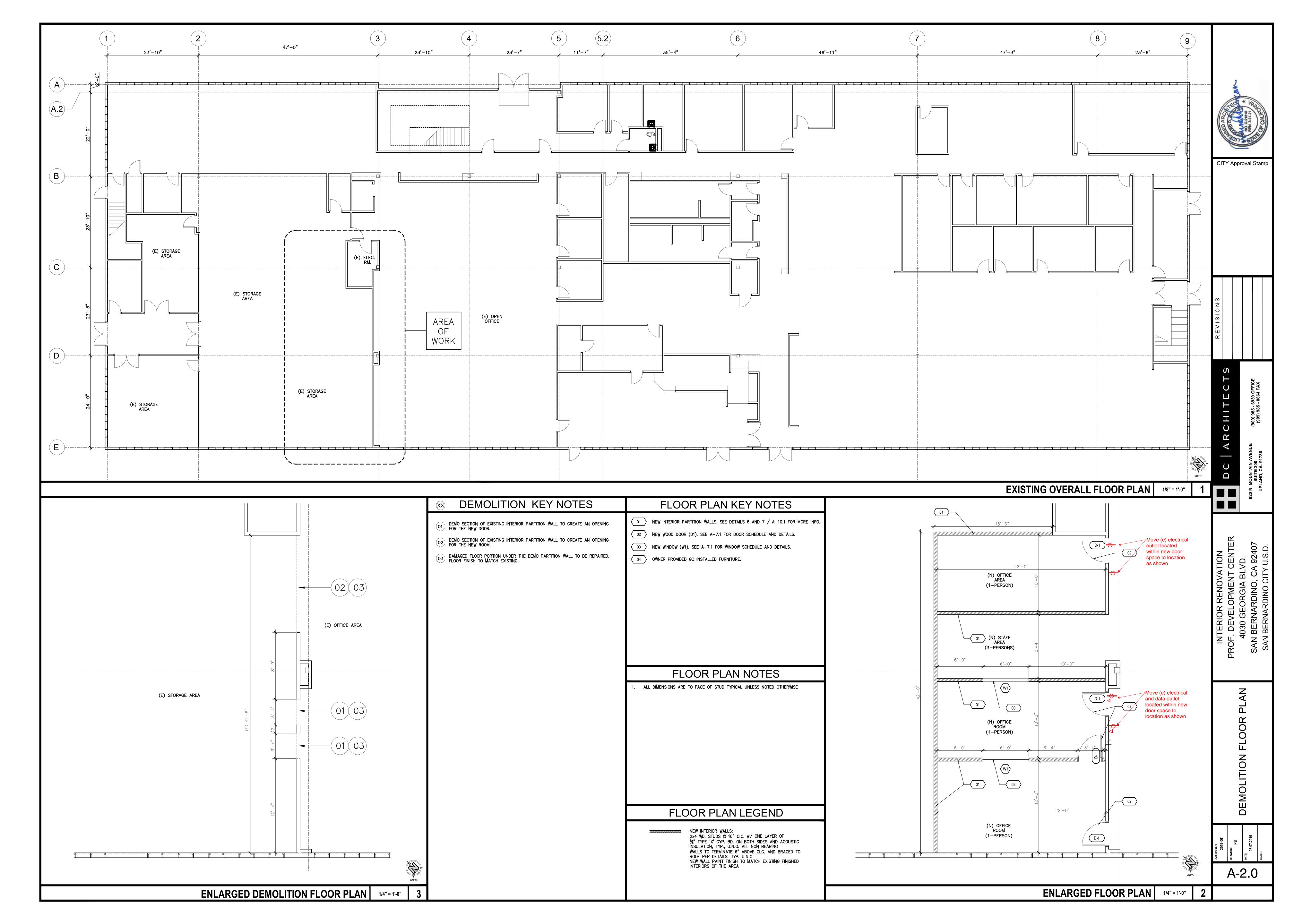
RAD

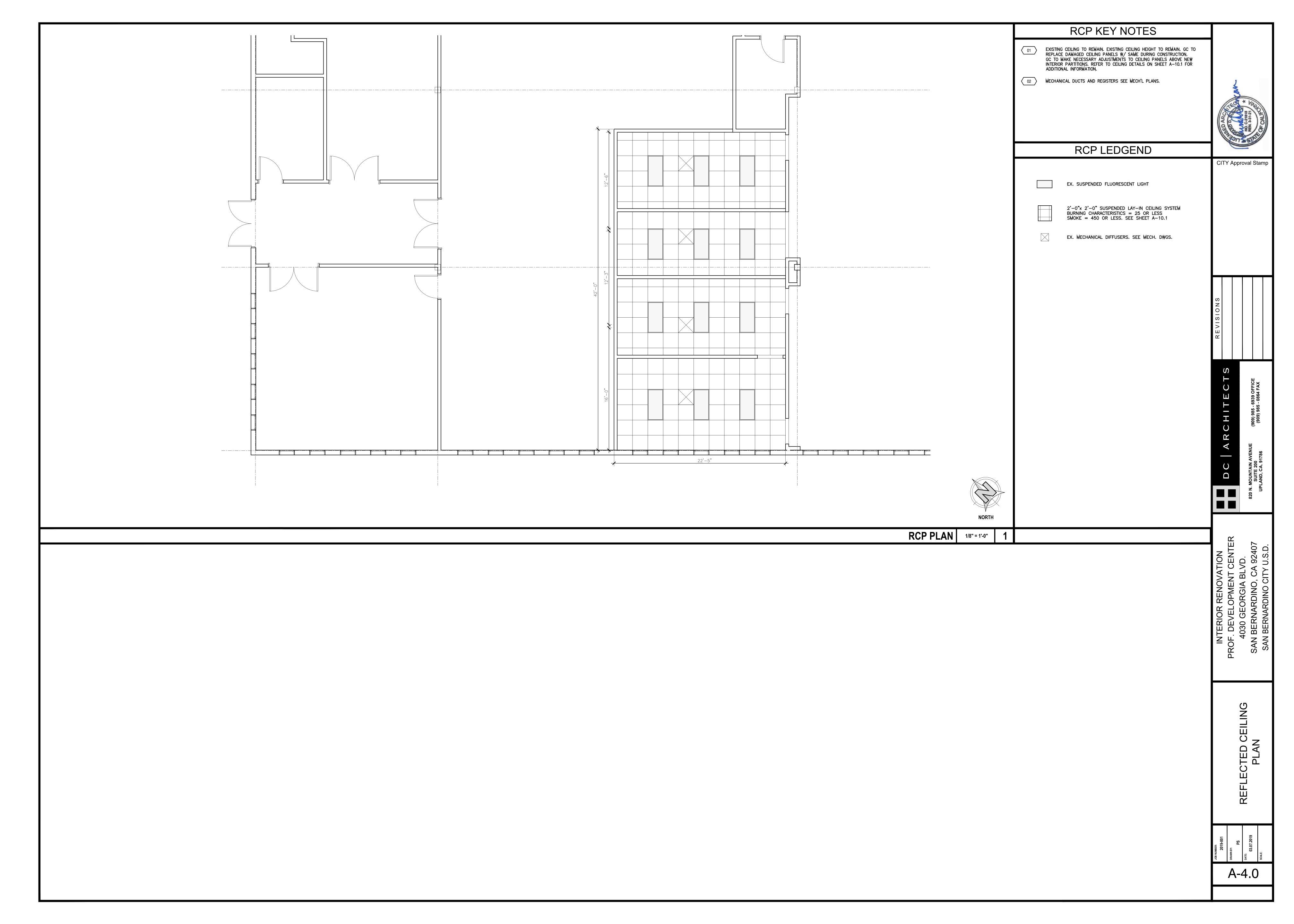


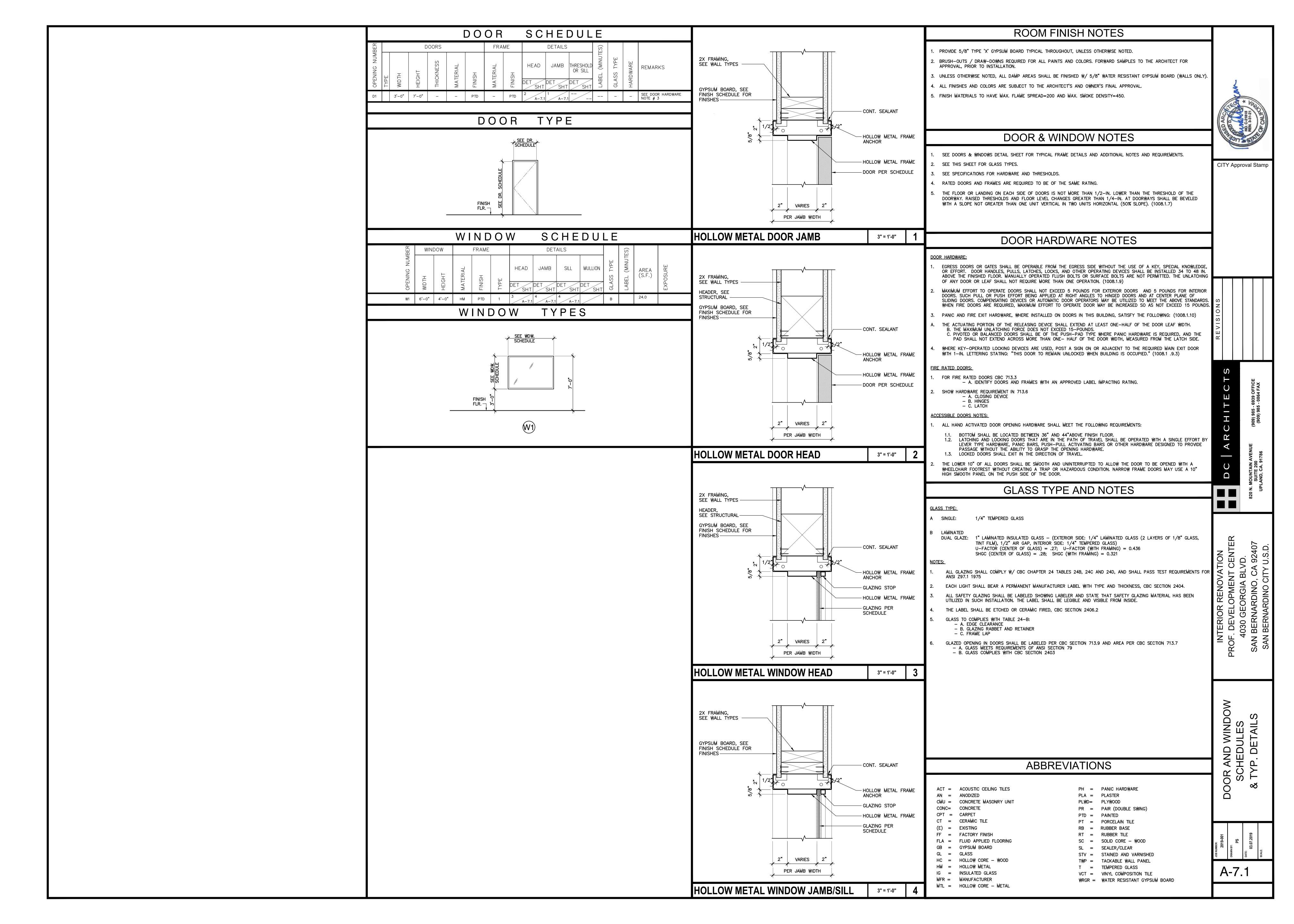
- CONTRACTOR AND ALL SUBCONTRACTORS SHALL BE RESPONSIBLE FOR BEING FAMILIAR WITH AND ENSURING THAT ALL WORKMANSHIP AND/OR MATERIALS MEET C.B.C. STANDARDS OF THE LATEST 2016 EDITION, AS WELL AS, CODES, ACCESSIBILITY ORDINANCES, AND STANDARDS OF THE DIVISION OF THE STATE ARCHITECT OR OTHER GOVERNING AGENCIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING & OBTAINING BUILDING PERMITS AS REQUIRED BY THE LOCAL BUILDING AND SAFETY DEPARTMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FILING NECESSARY APPLICATIONS FOR PERMITS AFFECTING THE TRADES REQUIRED BY THE RESPONSIBLE JURISDICTIONAL AGENCY. EACH SUBCONTRACTOR SHALL PROVIDE ANY ADDITIONAL DRAWINGS, SKETCHES, SCHEDULES, CALCULATIONS, ETC. AS REQUIRED BY SUCH AGENCIES.
- ALL DIMENSIONS SHALL BE VERIFIED ON THE JOB SITE BY EACH SUBCONTRACTOR AND/OR SUPPLIER WHICH AFFECTS THE WORK. EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR BEING FAMILIAR AND COMPLYING WITH FOR CORRECT INSTALLATION AND USE OF ALL MATERIALS. ALL MATERIALS SHALL BE NEW AND OF FIRST QUALITY. NO USED MATERIALS MATERIALS OR SECONDS WILL BE PERMITTED UNLESS RE-USE OF EXISTING FIXTURES/ MATERIAL ARE NOTED ON THE
- NO CHANGES OR VARIATIONS FROM THESE PLANS MAY BE MADE EXCEPT UPON WRITTEN APPROVAL BY THE ARCHITECT OR OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION AND SHALL PROVIDE ADEQUATE SHORING, DURING CONSTRUCTION. SAFETY AND BRACING REQUIREMENTS SHALL BE IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ALL DISCREPANCIES SHALL BE CALLED TO ATTENTION OF THE ARCHITECT AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
- ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE BUT WITHOUT GUARANTEE OF ACCURACY. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE ARCHITECT SO THAT THE PROPER REVISIONS CAN BE MADE. MODIFICATIONS OF DETAILS OF CONSTRUCTION SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT OR OWNER.
- 8. THESE PLANS ARE THE EXCLUSIVE PROPERTY OF THE ARCHITECT. ANY REPRODUCTION OR USE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE ARCHITECT IS PROHIBITED. THE ARCHITECT ASSUMES NO LIABILITY FOR THE UNAUTHORIZED USE OF THESE PLANS.
- 9. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS 2016 CBC.
- 10. SUBSTITUTIONS SHALL BE CONSIDERED CONSTRUCTION CHANGE DOCUMENT AND SHALL BE APPROVED BY THE OWNER AND ARCHITECT PRIOR TO FABRICATION.
- 13. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER BEFORE PROCEEDING WITH THE WORK.

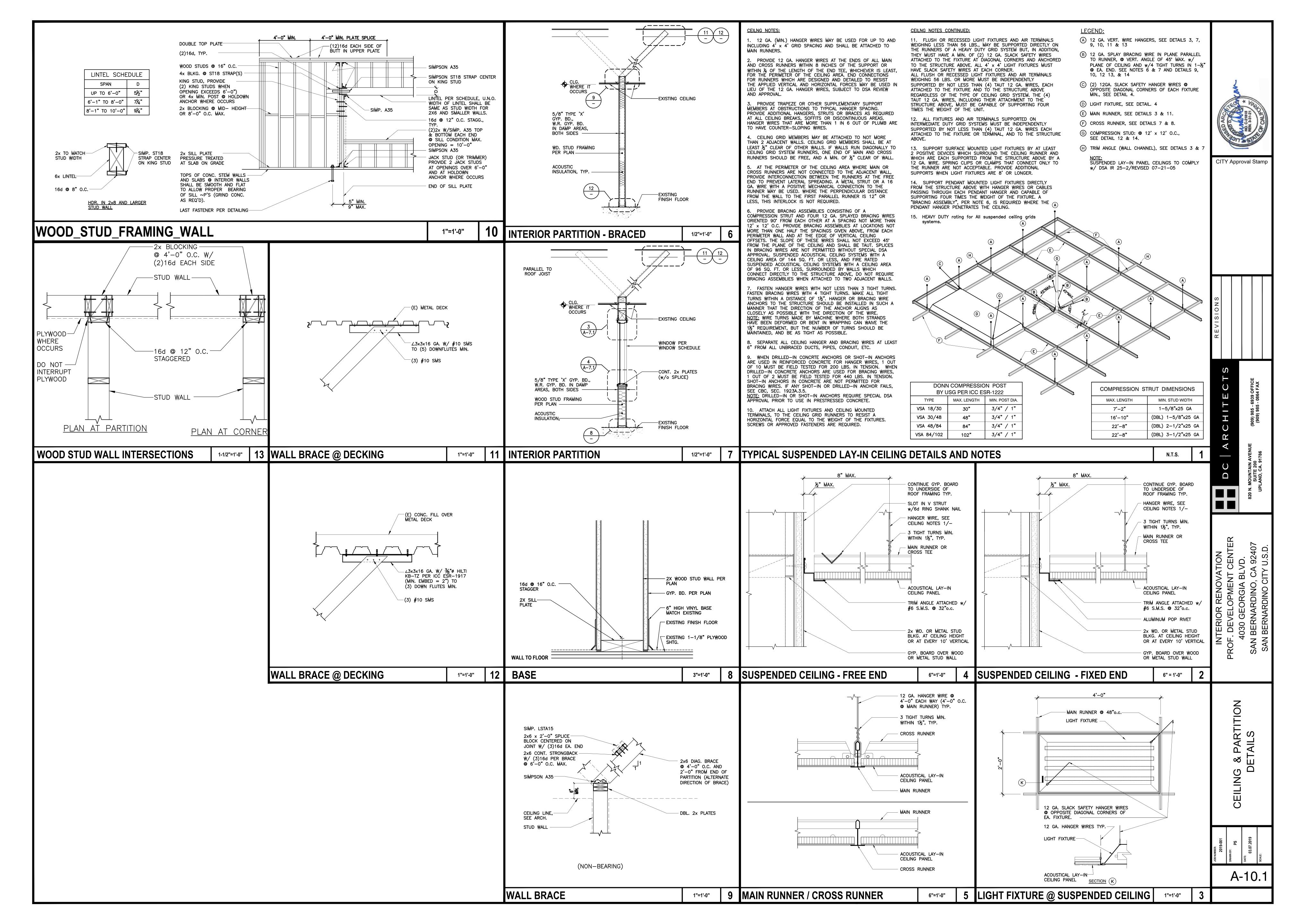
CITY Approval Stamp

INTERIOR RENOVA
PROF. DEVELOPMENT
4030 GEORGIA BL
SAN BERNARDINO, C.









AIR CONDITIONING REQUIREMENTS

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CALIFORNIA MECHANICAL CODE, 2016 EDITION TITLE 24 PART 5

1. A. FURNISH ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT AND FACILITIES NECESSARY TO FURNISH, FABRICATE, DELIVER, AND STORE AND INSTALL ALL WORK NOTED ON THE DRAWINGS AND/OR

B. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL WORK NECESSARY TO MAKE A COMPLETE SYSTEM WHETHER OR NOT SUCH DETAILS ARE MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE PLANS. BUT WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE SYSTEM. EXCEPTING ONLY THOSE PORTIONS THAT ARE SPECIFICALL MENTIONED HEREIN OR PLAINLY MARKED ON THE ACCOMPANYING DRAWINGS AS BEING INSTALLED UNDER ANOTHER SECTION OF THE SPECIFICATIONS.

2. WORKMANSHIP: THE WORK SHALL BE ACCOMPLISHED IN A THOROUGH AND WORKMAN—LIKE MANNER SATISFACTORY TO AND MEETING THE APPROVAL OF THE OWNER AND ARCHITECT.

3. MATERIALS: ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND THE BEST OF THEIR RESPECTIVE KIND. FREE FROM ALL DEFECTS AND OF THE MAKE AND QUALITY SPECIFIED.

4. SITE INSPECTION: CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUBMISSION OF HIS BID AND

THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS & EXACT NATURE OF THE WORK.
SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR FURNISHING A COMPLETE AND FUNCTIONAL
SYSTEM. NO CHANGES IN CONTRACT WILL BE MADE TO ACCOMMODATE OR ALLOW EXTRA FUNDS FOR ANY
OMISSION WHICH RESULTS FROM A FAILURE TO THOROUGHLY MAKE THE EXAMINATION.

5. CODES AND PERMITS: ALL MECHANICAL EQUIPMENT, INSTALLATION, ETC., SHALL CONFORM WITH ALL
APPLICABLE CODES AND ORDINANCES AS INTERPRETED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

INCLUDING CALIFORNIA TITLE 24. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS. COPIES OF ALL PERMITS AND INSPECTION REPORTS SHALL BE SUBMITTED TO THE ARCHITECT.

6. AS-BUILTS: CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS-BUILTS TRANSPARENCIES WITH ALL

CHANGES NOTED THEREON AT THE COMPLETION OF THE PROJECT AND PRIOR TO FINAL ACCEPTANCE AND

7. GUARANTEE: CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL LABOR AND MATERIALS ON ALL WORK AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER COMPLETION.

8. SUBMITTALS: CATALOG INFORMATION AND CUTS OF ALL EQUIPMENT AND DEVICES SHALL BE SUBMITTED TO

9. COORDINATION: THE DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW SCOPE. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES TO PROVIDE BEST ARRANGEMENT OF ALL DUCTS, PIPES, CONDUIT, ETC. LOCATION OF EXISTING PIPING AND DUCTWORK SHOWN IS APPROXIMATE: CONTRACTOR SHALL VERIFY THEIR LOCATION PRIOR TO BEGINNING WORK OF THIS SECTION AND SHALL MAKE MODIFICATIONS AND ADJUSTMENTS REQUIRED TO INSTALL THE WORK OF THIS SECTION.

10. CUTTING AND PATCHING: ALL CUTTING AND PATCHING REQUIRED OF THE STRUCTURE (NEW OR EXISTING)

SHALL BE PROVIDED UNDER OTHER SECTIONS OF THE WORK. PROVIDE NECESSARY REQUIREMENTS TO THE PROJECT SUPERINTENDENT.

11. CLEANUP: UPON COMPLETION OF THE WORK UNDER THIS SECTION, THE CONTRACTOR SHALL REMOVE ALL

SURPLUS MATERIALS, EQUIPMENT AND DEBRIS INCIDENTAL TO THIS WORK AND LEAVE THE PREMISES CLEAN AND ORDERLY
12. DUCTWORK:

A. DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE UNIFORM MECHANICAL CODE (LATEST ADOPTED VERSION) AND SMACNA STANDARDS.

D. ALL DUCT JOINTS SHALL BE SEALED AIR TIGHT WITH APPROVED DUCT SEALER AND DUCT TAPE.

B. DUCTWORK SHALL BE GALVANIZED STEEL.

C. DOUBLE THICKNESS TURNING VANES SHALL BE USED ON ALL DUCT TURNS OF 90°.

E. FLEXIBLE DUCT USED FOR CONDITIONED AIR SHALL BE U.L. APPROVED, VINYL COATED, WIRE REINFORCED FIBERGLASS, WITH MAXIMUM CONDUCTANCE OF .30 AND A MAXIMUM LENGTH OF FIVE FEET.

13. FILTERS SHALL BE U.L. RATED AND APPROVED.

13. FILTERS SHALL BE U.L. RATED AND APPROVED.14. INSULATION:

THE ARCHITECT FOR REVIEW (SIX COPIES OF EACH).

A. INSULATION SHALL BE U.L. LISTED IN COMPLIANCE WITH FLAME—SPREAD RATING OF NOT MORE THAN 25 AND SMOKE DENSITY NOT EXCEEDING 50. PER THE UNIFORM MECHANICAL CODE. INSTALLATION SHALL BE IN ACCORDANCE WITH THE STATE OF CALIFORNIA ENERGY COMMISSION AND UMC REQUIREMENTS.

B. INSULATE ALL INTERIOR CONDITIONED SUPPLY AND RETURN AIR DUCTWORK WITH 1 1/2" THICK, .75 LB.

B. INSULATE ALL INTERIOR CONDITIONED SUPPLY AND RETURN AIR DUCTWORK WITH 1 1/2" THICK, .75 LB. PER CU. FT. DENSITY FIBERGLASS INSULATION WITH VAPOR BARRIER (MINIMUM R-VALUE = 4.0 AT 75°F MEAN TEMPERATURE).

C. CONDITIONED SUPPLY AND RETURN AIR DUCTWORK EXPOSED TO THE WEATHER SHALL BE INTERNALLY LINED WITH 1-1/2" THICK, 1.5 LB. PER CU. FT. DENSITY FIBERGLASS DUCT LINER (MINIMUM R-VALUE = 6.3).

16. VOLUME DAMPERS SHALL BE PROVIDED IN EACH BRANCH DUCT TO EACH DIFFUSER AND REGISTER, AND SHALL BE LOW LEAKAGE OPPOSED BLADE ADJUSTABLE TYPE.

17. CONTRACTOR SHALL AFFIX A MAINTENANCE LABEL TO ALL EQUIPMENT REQUIRING ROUTINE MAINTENANCE AND SHALL PROVIDE THREE COPIES OF MAINTENANCE AND OPERATING MANUALS TO THE OWNER.

18. EACH MECHANICAL VENTILATION SYSTEM (SUPPLY AND/OR EXHAUST) SHALL BE EQUIPPED WITH A MEANS OF SHUT—OFF WHEN VENTILATION IS NOT REQUIRED. AND BACKDRAFT DAMPERS WHICH CAN BE CLOSED ON

FAN SHUTDOWN SHALL BE PROVIDED FOR AIR INTAKES AND/OR DISCHARGES.

19. FACH GRAVITY VENTILATION SYSTEM, EXCEPT FOR COMBUSTION AIR OPENINGS, SHALL BE PROVIDED.

19. EACH GRAVITY VENTILATION SYSTEM, EXCEPT FOR COMBUSTION AIR OPENINGS, SHALL BE PROVIDED WITH AUTOMATIC DAMPERS IN ALL OPENINGS TO THE OUTSIDE.20. EACH AIR HANDLING SYSTEM ABOVE 2000 CFM SHALL BE PROVIDED WITH SUITABLE SMOKE DETECTORS IN

THE SUPPLY DUCT PER UMC. INTERLOCKED WITH FAN STARTER(S) FOR AUTOMATIC SHUT-OFF.

21. TEMPERATURE CONTROL DEVICES: EACH HVAC SYSTEM SHALL BE PROVIDED WITH AN AUTOMATIC SPACE TEMPERATURE CONTROL DEVICE THAT SHALL BE CAPABLE OF BEING SET TO MAINTAIN SPACE TEMPERATURE SET POINTS FROM 55°F TO 85°F AND SHALL BE CAPABLE OF OPERATING THE SYSTEM HEATING AND COOLING

SET POINTS FROM 55°F TO 85°F AND SHALL BE CAPABLE OF OPERATING THE SYSTEM HEATING AND COOLING IN SEQUENCE. CONTROLS SHALL BE ADJUSTED TO PROVIDE A TEMPERATURE RANGE OF AT LEAST 5°F AND UP TO 10°F BETWEEN FULL HEATING AND COOLING, AND HAVE A CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE OF NO MORE THAN 70°F AND COOLING AT A TEMPERATURE NOT LESS THAN 78°F.

22. THERMOSTATS SHALL HAVE NUMERIC SETPOINTS IN °F, ADJUSTABLE SETPOINT STOPS ACCESSIBLE ONLY TO

AUTHORIZED PERSONNEL, AND SHALL BE MOUNTED AT 48" ABOVE FINISHED FLOOR.

23. BALANCING AND ADJUSTING: ALL AIR SYSTEMS SHALL BE ADJUSTED BY AN INDEPENDENT BALANCING CONTRACTOR THAT IS A MEMBER OF THE ASSOCIATED AIR BALANCING COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). SUBMIT BALANCE REPORT TO OWNER PRIOR TO RECEIVING FINAL PAYMENT. ADDITIONAL BALANCING DAMPERS AND/OR PULLEY CHANGES SHALL BE PROVIDED AS REQUIRED TO BALANCE SYSTEMS AT NO INCREASE IN CONTRACT PRICE.

24. AUTOMATIC CONTROLS WHICH COMPLY WITH TITLE 24 REQUIREMENTS FOR OFF—HOUR CONTROL SHALL BE PROVIDED FOR EACH SYSTEM. CONSISTING OF A 4 HOUR TIMER THAT CAN BE MANUALLY OPERATED TO CONTROL THE OPERATING PERIOD OF THE SYSTEM. CONTROLS SHALL BE PROVIDED THAT TEMPORARILY OPERATE THE SYSTEM AS REQUIRED DURING OFF HOURS TO MAINTAIN A SETBACK HEATING AND COOLING

25. BEFORE STARTING ANY WORK, THE CONTRACTOR FOR THIS SECTION OF THE WORK SHALL EXAMINE A COMPLETE SET OF DRAWINGS FOR ALL TRADES, INCLUDING ARCHITECTURAL, STRUCTURAL, HVAC, ELECTRICAL, FIRE PROTECTION AND PLUMBING. DIMENSIONS, SPACE REQUIREMENTS AND POINTS OF CONNECTION TO ALL EQUIPMENT SHALL BE VERIFIED, AND ANY MINOR ADJUSTMENTS NECESSARY TO AVOID CONFLICT WITH THE BUILDING STRUCTURE AND THE WORK OF THE OTHER TRADES SHALL BE MADE. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY IF ANY MAJOR CONFLICTS OCCUR.

26. COORDINATE LOCATIONS OF ALL ROOF AND EXTERIOR WALL OPENINGS WITH ALL RELEVANT TRADES, AND PROVIDE WATERTIGHT FLASHINGS WHEREVER PENETRATIONS OCCUR. EXACT LOCATIONS AND SIZES MAY BE DEPENDENT UPON EQUIPMENT SELECTIONS: COORDINATE SIZES AND LOCATIONS OF ALL OPENINGS WITH APPROPRIATE EQUIPMENT REQUIREMENTS.

27. PERMANENT ACCESS TO EQUIPMENT SHALL BE PROVIDED, AND A MINIMUM OF 30" CLEAR WORKING SPACE IN FRONT OF ACCESS PANELS TO THE COMPRESSOR, BLOWER ASSEMBLY AND AIR FILTER SECTION OF THE EQUIPMENT SHALL BE PROVIDED.

28. ALL EQUIPMENT SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE WITH CODE APPROVED EARTHQUAKE RESTRAINTS.

29. GAS-FIRED EQUIPMENT SHALL BE EQUIPPED WITH A PILOTLESS ELECTRONIC INTERMITTENT IGNITION SYSTEM.

30. A 1" MINIMUM CONDENSATE DRAIN FROM EACH AIR CONDITIONING UNIT TO A CODE APPROVED RECEPTOR

31. COMBINATION SMOKE/FIRE DAMPERS SHALL BE INSTALLED IN DUCTS PASSING THROUGH FIRE WALLS, AND WHERE SHOWN ON DRAWINGS, SMOKE DAMPERS SHALL BE INTERLOCKED WITH THE BUILDING FIRE/LIFE SAFETY SYSTEM. ACCESS TO FUSIBLE LINKS AND/OR DAMPER MOTORS SHALL BE PROVIDED THROUGH ACCESS DOORS. DAMPERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NFPA 90A, UBC AND UMC REQUIREMENTS, APPROVED BY THE STATE FIRE MARSHAL, AND INSTALLED PER THE MANUFACTURERS U.L. INSTALLATION INSTRUCTIONS.

32. EACH PIECE OF EQUIPMENT AND ALL SYSTEMS SHALL BE ADJUSTED AND RE-ADJUSTED TO INSURE PROPER FUNCTION OF ALL CONTROLS, MAINTENANCE OF TEMPERATURE, ADEQUACY OF FLOWS AND CAPACITIES, ELIMINATION OF NOISE AND VIBRATON, AND SHALL BE LEFT IN PROPER OPERATING CONDITION.

33. MINIUMUM VENTILATION RATES SHALL COMPLY WITH THE LATEST EDITION OF ASHRAE AND CEC REQUIREMENTS. CONTROLS SHALL BE PROVIDED TO ALLOW OUTSIDE AIR DAMPERS OR DEVICES TO BE

OPERATED AT THE REQUIRED VENTILATION RATES.

34. FINAL LOCATION OF CEILING DIFFUSERS SHALL BE PER THE ARCHITECTURAL REFLECTED CEILING PLAN OR AS PER FIELD REQUIREMENTS.

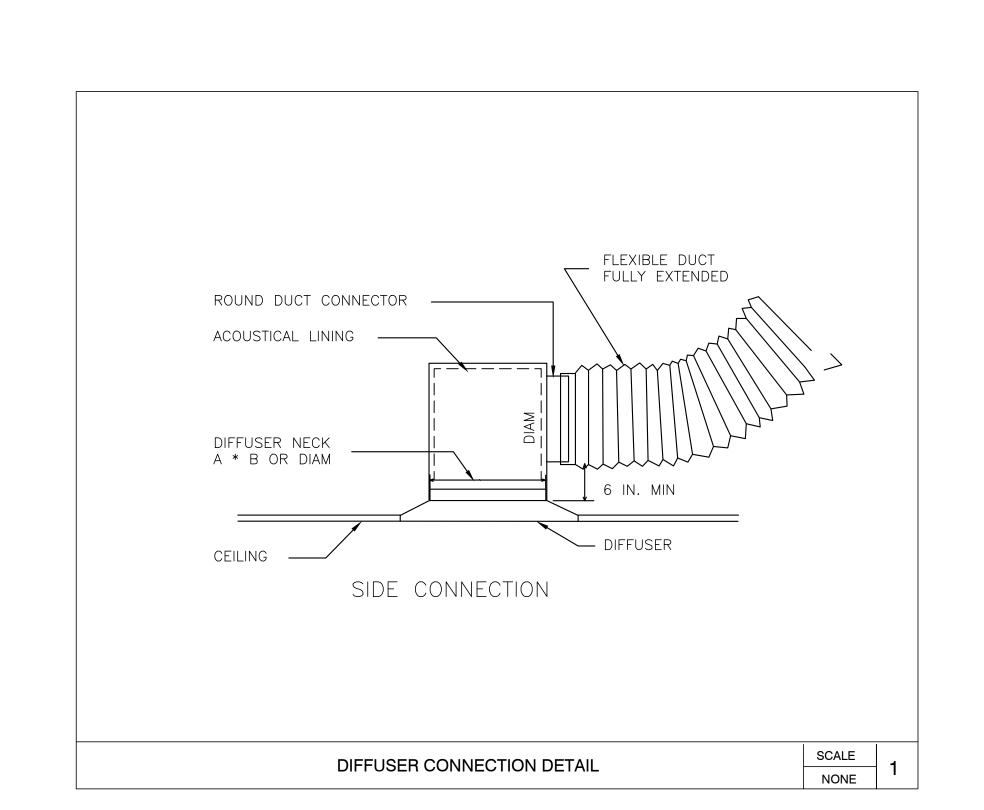
35. NO COMBUSTIBLE MATERIALS SHALL BE INSTALLED IN RETURN AIR PLENUMS.
36. ACCESS DOORS: FOR ALL COMBINATION SMOKE/FIRE DAMPERS AND WHERE NECESSARY IN DUCTWORK OR CASINGS, SUITABLE ACCESS DOORS AND FRAMES TO PERMIT INSPECTION, OPERATION AND MAINTENACE OF ALL CONTROLS, MOTOR BEARINGS, OR OTHER APPARATUS CONCEALED BEHIND THE SHEET METAL WORK SHALL BE PROVIDED. ACCESS DOORS IN DUCTS MAY BE OF SINGLE PANEL CONSTRUCTION OF NOT LESS THAN NO. .18

GAUGE, GALVANIZED, AND SHALL HAVE SPONGE RUBBER GASKETS WITH HINGES AND LATCHES.

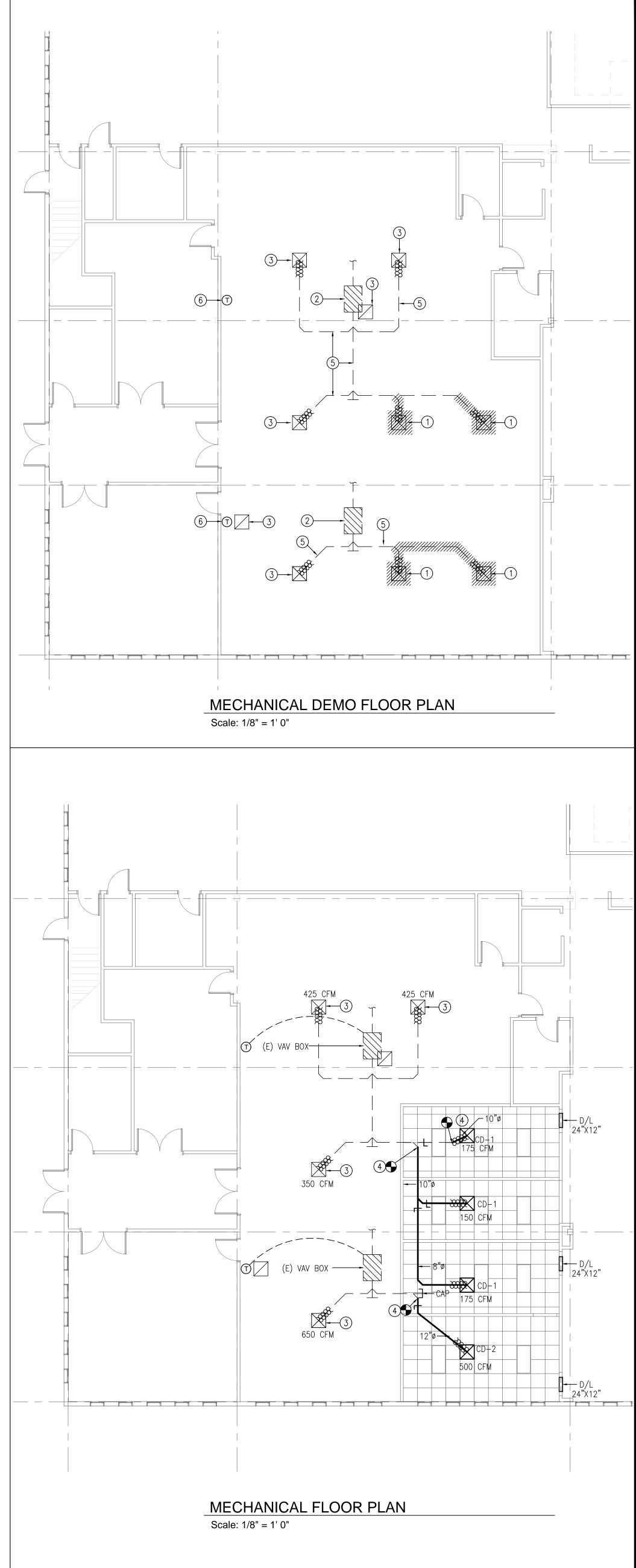
37. DUCT RUNOUTS TO DIFFUSERS AND DUCT/PIPING CONNECTIONS TO EQUIPMENT SHALL BE SIZED TO MATCH NECK OR EQUIPMENT INTAKE/DISCHARGE SIZES, UNLESS OTHERWISE NOTED.

38. AIR CONDITIONING UNITS SHALL BE STATE OF CAIFORNIA ENERGY COMMISSION LISTED, AND SHALL MEET OR EXCEED ALL APPLICABLE EFFICIENCY REQUIREMENTS.

	SUPPLY AIR DUCT
	RETURN, TRANSFER, EXHAUST OR BY-PASS AIR DUCT
OR M	SUPPLY AIR DIFFUSER (4 WAY OR 2 WAY THROW) S.
	RETURN AIR REGISTER R.
	TRANSFER AIR REGISTER T.A
	EXHAUST AIR REGISTER E.
T)	AC UNIT THERMOSTAT & ZONE
	VOLUME DAMPER V.I
- ' / _C -	UNDER CUT DOOR
D.L.	DOOR LOUVER
(DD)	DUCT TYPE SMOKE DETECTOR
	DUCT TRANSITION
O.A	OUTSIDE AIR
C.D.	CEILING DIFFUSER
F.P.	FILLER PANEL
R.C.G.	RETURN CEILING GRILLE
R.C.R.	RETURN CEILING REGISTER
T.C.G.	TRANSFER CEILING GRILLE
E.C.G.	EXHAUST CEILING GRILLE
E.C.R.	EXHAUST CEILING REGISTER
S.W.G.	SUPPLY WALL GRILLE
S.W.R.	SUPPLY WALL REGISTER
R.W.G.	RETURN WALL GRILLE
R.W.R.	RETURN WALL REGISTER
T.W.G.	TRANSFER WALL GRILLE
E.W.G.	EXHAUST WALL GRILLE
E.W.G.	EXHAUST WALL GRILLE
⊕ F.L.F.D.	FUSIBLE LINK FIRE DAMPER
A.P.	ACCESS PANEL
U.L.A.P.	U.L. LISTED ACCESS PANEL
A.C.	AIR CONDITIONING UNIT
R.E.F.	ROOF EXHAUST FAN
C.E.F.	CEILING EXHAUST FAN
I.E.F	IN-LINE EXHAUST FAN
	ZONE DAMPER
— 2	BYPASS DAMPER
P.O.C.	POINT OF CONNECTION
A.F.F.	ABOVE FINISHED FLOOR
Α	FURNISHED AND INSTALLED UNDER THE ARCHITECTURA DIVISION OF THE SPECIFICATIONS.
Ε	FURNISHED AND INSTALLED UNDER THE ELECTRICAL DIVISION OF THE SPECIFICATIONS.
S	FURNISHED AND INSTALLED UNDER THE STRUCTURAL DIVISION OF THE SPECIFICATIONS.
— - C.S.F.D.	COMBINATION SMOKE/FIRE DAMPER
= = OR ===	<u> </u>
\bigcirc CO ₂ \bigcirc	CARBON DIOXIDE SENSOR
■ OR ■	S.A. OR R.A. DUCT DROPS
	E.A. DUCT DROP



	AIR DISTRIBUTION SCHEDULE													
MADIC	AADIC MAKE	MODEL	C	FM			NECK (IN)	FACE	MAX	MAX	REMARKS			
MARK	MAKE	MODEL	MIN	MAX	STYLE	USE	SIZE	(IN) SIZE	MAX (IN) PD	NC	NEIVIANNO			
CD-1	KRUEGER	6204	100	200	PERFORATED	SA	8"X8"	24"×24"	.09	< 15				
CD-2	KRUEGER	6204	400	500	PERFORATED	SA	14"X14"	24"x24"	.02	< 23				



GENERAL NOTES:

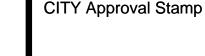
1. ALL NEW DIFFUSERS AND REGISTERS SHALL BE BALANCED TO AIR QUANTITIES INDICATED.

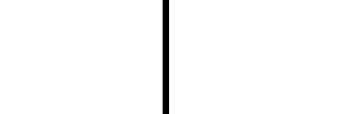
2. ALL REMAINING DUCTING TO BE CLEANED; SEE SPECIFICATIONS.

KEYNOTES:

LOCATION.

- ① EXISTING DIFFUSER TO BE REMOVED. RETAIN FOR RE-INSTALLATION.
- EXISITNG VAV BOX TO REMAIN. CONTRACTOR TO VERIFY ACTUAL LOCATION.
- EXISTING DIFFUSER / REGISTER TO REMAIN. CONTRACTOR TO VERIFY
 ACTUAL LOCATION.
- CONNECT NEW DIFFUSER TO EXISTING DUCTING AS INDICATED. EXTEND DUCTING AS REQUIRED. SIZE TO MATCH EXISTING.
- (5) EXISTING DUCTING TO REMAIN. CONTRACTOR TO VERIFY ACTUAL
- 6 EXISTING THERMOSTAT TO REMAIN. CONTRACTOR TO VERIFY ACTUAL





R E V I S I O N S
2/3/2020 - BACK CHECK COMMENTS

09) 985 - 6939 OFFICE
(909) 985 - 0864 FAX

20 N. MOUNTAIN AVENUE SUITE 200 UPLAND, CA. 91786

OF. DEVELOPMENT CENTER
4030 GEORGIA BLVD.
AN BERNARDINO, CA 92407

PDC CLASSROOM ECHANICAL DEMO AND FLOOR PLAN

DRAWN BY:

DATE:

03.07.2019

SCALE:

M-001

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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards

ELECTRICAL SPECIFICATIONS

1. CODE COMPLIANCE

A. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE STATE OF CALIFORNIA CODE OF REGULATIONS, ELECTRICAL REGULATIONS OF THE STATE FIRE MARSHALL AND ALL OTHER GOVERNING CODES.

2. PERMITS AND FEES

SECURE AND PAY FOR ALL PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK.

3. MATERIAL

A. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND LISTED BY THE UNDER—WRITER'S LABORATORIES, INC. MANUFACTURED IN ACCORDANCE WITH U.L., NEMA, ANSI OR IEEE STANDARDS, AND APPROVED BY ALL AUTHORITIES HAVING JURISDICTION.

4. GROUNDING

- A. ALL ELECTRICAL EQUIPMENT, DEVICES AND SYSTEMS SHALL BE GROUNDED IN STRICT COMPLIANCE WITH NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL CODES. A GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL NEW BRANCH CIRCUIT WIRING.
- 5. ALL CONDUCTORS SHALL BE COPPER TYPE "THWN\THHN" RATED AT 600 VOLTS, UNLESS OTHERWISE NOTED.
- 6. ALL CONDUITS EXPOSED SHALL BE (RGS) RIGID GALVANIZED STEEL.
- 7. ALL CONDUITS CONCEALED SHALL BE "EMT".
- 8. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL ELECTRICAL CONDITIONS THAT MAY AFFECT HIS BID AND HE SHALL INCLUDE ALL SUCH COSTS WHEN SUBMITTING HIS BID PROPOSAL. NO EXTRAS WILL BE ALLOWED IF THE CONTRACTOR DID NOT VISIT THE EXISTING JOB SITE AND TAKE INTO CONSIDERATION ALL EXISTING ELECTRICAL CONDITIONS.
- 9. THE CONTRACTOR SHALL EXERCISE CARE AND PRUDENCE WHEN RUNNING CONDUIT BELOW GRADE. ALL DAMAGES INCURRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 10. WHERE CONDUITS ARE RUN EXPOSED ON ROOF OR COVERED WALK, USE 2" X 4" REDWOOD BLOCKS AT 5'-0" ON CENTER. USE MASTIC TO SECURE THE BLOCKS TO THE ROOF OR CANOPY, NO SCREWS ALLOWED.
- 11. WHERE CUTTING OF EXISTING CONCRETE AND ASPHALT IS NECESSARY, THE CON-TRACTOR SHALL PATCH THE CONCRETE OR ASPHALT TO MATCH EXISTING SURFACE.
- 12. ALL TRENCHING AND BACKFILL AREAS SHALL BE PROTECTED SO AS TO PREVENT PERSONNEL INJURY. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY INJURY. COORDINATE TRENCHING WITH EACH SCHOOL PRINCIPAL.
- 13. ALL BACKFILL SHALL BE TAMPED TO MATCH THE EXISTING DENSITY. ANY CRACK-ING OR SAGGING OF ASPHALT OR CONCRETE PAVING WILL BE REPAIRED AT NO ADDITIONAL COST TO THE SCHOOL DISTRICT. DO NOT BACKFILL PRIOR TO INSPECTION OF DUCT BANK.
- 14. REWORK OF EXISTING PANELBOARDS

WHERE A NEW CIRCUIT BREAKER ARE CALLED FOR WITHIN EXISTING PANELBOARDS THE NEW CIRCUIT BREAKER SHALL MATCH THE EXISTING IN ALL ASPECTS.

15. SCHEDULE OF WORK

ANY WORK TO BE PERFORMED IN EXISTING BUILDINGS DURING SCHOOL SESSIONS MUST BE PLANNED BY THE CONTRACTOR IN ADVANCE. THE SCHEDULING SHALL BE DONE IN COOPERATION WITH THE SCHOOL PRINCIPAL WHO WILL MAKE AVAILABLE TO THE CONTRACTOR FOR THE PERFORMANCE OF THIS WORK, PORTIONS OF BUILDING WHICH MAY NORMALLY BE IN USE.

16. CONTINUITY OF EXISTING ELECTRICAL SYSTEMS

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL POWER, LIGHTING, COMMUNICATION, SIGNAL, FIRE ALARM AND SECURITY SYSTEM SERVICES WITHIN ALL AREAS OF NO WORK WITHIN THIS BUILDING.
- B. REFRIGERATION MOTORS SHALL BE KEPT OPERATING AT ALL TIMES, EXCEPT FOR PERIODS OF TIME NOT AGGREGATING MORE THAN TWO HOURS IN ANY ONE DAY AND DURING THE VACATION PERIOD. NOTIFY THE DISTRICT BEFORE DISCONNECTING REFRIGERATION MOTORS.
- 17. SCHEDULED POWER OUTAGES

 COORDINATE AND SCHEDULE ALL OUTAGES WITH THE OFFICE MANAGER AND SCHOOL DISTRICT'S DIRECTOR OF MAINTENANCE PRIOR TO ANY AND ALL OUTAGES.

18. SHOP DRAWINGS

- A. WITHIN TEN (10) DAYS AFTER RECEIPT OF CONTRACT, SUBMIT TO ARCHITECT SEVEN (7) COMPLETE SETS OF DRAWINGS FOR ALL ELECTRICAL EQUIP—MENT AND DEVICES LISTED BELOW. DO NOT DELIVER THESE ITEMS TO THE JOB SITE UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED BY ARCHITECT AND ELECTRICAL ENGINEER.
- B. SUBMIT DRAWINGS FOR THE FOLLOWING EQUIPMENT:
 -) CIRCUIT BREAKERS
 - 2) SIGNAL\COMMUNICATION DEVICES
 3) DUPLEX RECEPTACLES
- 4) LIGHTING FIXTURES AND MOTION SENSORS

19. GUARANTEE

THIS CONTRACTOR SHALL FURNISH THE OWNER WITH A WRITTEN GUARANTEE FOR THE PERIOD OF ONE YEAR AGAINST FAILURE OF THE ELECTRICAL SYSTEM DUE TO FAULTY MATERIALS OR WORKMANSHIP, GUARANTEE PERIOD SHALL START AT THE DATE OF FINAL ACCEPTANCE BY THE OWNER. ALL SUCH DEFECTS MUST BE REPAIRED OR DEFECTIVE MATERIALS REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE

20. CLEAN-UP

UPON COMPLETION OF THE WORK, THIS CONTRACTOR SHALL REMOVE FROM THE JOB SITE ALL DEBRIS AND UNUSED MATERIALS, TOOLS AND EQUIPMENT RESULTING FROM THIS WORK.

21. DRAWINGS AND SPECIFICATIONS

ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN SOME RESPECTS. SIZES AND LOCA—
TION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY
BE DISTORTED FOR CLARITY IN THE DRAWINGS. FINAL LOCATIONS OF OUTLETS
AND EQUIPMENT SHALL BE ADJUSTED AS DICTATED BY EXISTING CONDITIONS. IT
IS NOT WITHIN THE SCOPE OF DRAWINGS TO SHOW ALL NECESSARY BENDS, OFF—
SETS, PULL BOXES AND OBSTRUCTIONS. IT SHALL BE THE RESPONSIBILITY OF
THE CONTRACTOR TO INSTALL HIS WORK TO CONFORM TO THE STRUCTURE, PRESERVE
HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR.

SYMBOLS LIST (NOT ALL SYMBOLS ARE USED)

NTS NOT TO SCALE.

No. 13 Exp. 06,

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INTERIOR RENOVAT
PROF. DEVELOPMENT C
4030 GEORGIA BLV
SAN BERNARDINO, CA
SAN BERNARDINO CITY

CITY Approval Stamp

CIRCUIT BREAKER (SEE SINGLE LINE DIAGRAM).

CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS.

------ CONDUIT RUN BELOW GRADE.

CONDUIT ONLY.

"RGS" CONDUIT RUN EXPOSED ON ROOF.

FREE STANDING DISTRIBUTION PANELBOARD.

FLUSH MOUNTED PANELBOARD. (SEE SINGLE LINE DIAGRAM).

WP WEATHERPROOF. UON UNLESS OTHERWISE NOTED.

GRD. GROUND. CU COPPER.

⊕s JUNCTION BOX FLUSH MOUNTED IN CEILING FOR SECURITY SYSTEM MOTION SENSOR.

S ob FLUSH MOUNTED 277V. 20A. RATED SINGLE POLE TOGGLE SWITCH AT +48" U.O.N. a,b,c, etc. INDICATES LIGHTING FIXTURE CONTROL.

FLUSH MOUNTED 125V.,2P.,3W.,15 AMP RATED DUPLEX RECEPTACLE MOUNTED AT +18". U.O.N.

FLUSH MOUNTED 125V.,2P.,3W.,15 AMP RATED DOUBLE DUPLEX RECEPTACLE MOUNTED AT +18". U.O.N.

CLOCK: WALL MOUNTED AT +8'-0" U.O.N. TO MATCH DISTRICT STANDARD

INDICATES EXISTING TO REMAIN.

X ADJACENT TO LIGHT FIXTURE, OUTLET SYMBOL OR IN CONDUIT RUN

XR ADJACENT TO LIGHT FIXTURE, OUTLET SYMBOL OR IN CONDUIT RUN INDICATES EXISTING TO BE REMOVED.

XRL ADJACENT TO LIGHT FIXTURE OR OUTLET SYMBOL INDICATES EXISTING LIGHT FIXTURE OR OUTLET SHALL BE DISCONNECTED, REMOVED AND REINSTALLED AT NEW LOCATION NOTED.

NL ADJACENT TO LIGHT FIXTURE OR OUTLET SYMBOL INDICATES NEW LOCATION OF RELOCATED LIGHT FIXTURE OR OUTLET.

FLUSH MOUNTED DATA OUTLET. +18" U.O.N. WITH 1"C.O. STUBBED INTO CEILING SPACE. FURNISH AND INSTALL 2 DATA JACKS AND 2 CAT 6 CABLES BACK TO NEAREST MDF OR IDF.

ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR TO MATCH EXISTING FIRE ALARM SYSTEM SMOKE DETECTOR.

—— FA—— 3/4"C. (2) 2#18/2 TWISTED PAIR

NOTES:

- 1. THE ELECTRICAL DRAWINGS INDICATE NEW WORK. EXISTING ELECTRICAL SYSTEMS ARE NOT SHOWN EXCEPT WHERE INTERFACING IS REQUIRED.
- 2. CONSULT WITH THE DISTRICT'S ELECTRICAL INSPECTOR BEFORE STARTING WORK.
- THE ELECTRICAL PLANS ARE DEVELOPED FROM AS—BUILT DRAWINGS. THE CONTRAC—TOR IS RESPONSIBLE TO PROVIDE CIRCUIT CONTINUITY FOR A WORKABLE SYSTEM.
 EACH EMPTY CONDUIT SHALL HAVE A PULL CORD INSTALLED IN IT.
- 5. ALL ELECTRICAL SYMBOLS SHOWN ON SCHEDULES ARE NOT NECESSARILY USED ON THIS PROJECT.
- 6. VERIFY EXACT LOCATION OF ALL EXISTING ELECTRICAL SWITCHGEAR, SIGNAL CABINETS (TEL/INTERCOM, F.A., CABLE TV., AND SECURITY) PRIOR TO BID AND INSTALLATION AND NOTIFY SCHOOL DISTRICT OF ANY DISCREPANCY WITH THEIR PLANS
- 7. EACH PANELBOARD SHALL BE GROUNDED WITH A 3/4" X 10' LONG COPPER CLAD STEEL
- 8. MAKE ALL FINAL CONNECTIONS TO PANELBOARDS IN PORTABLE CLASSROOMS.

SYMBOLS, NOTES
ND SPECIFICATIONS
TITLE 24 FORMS

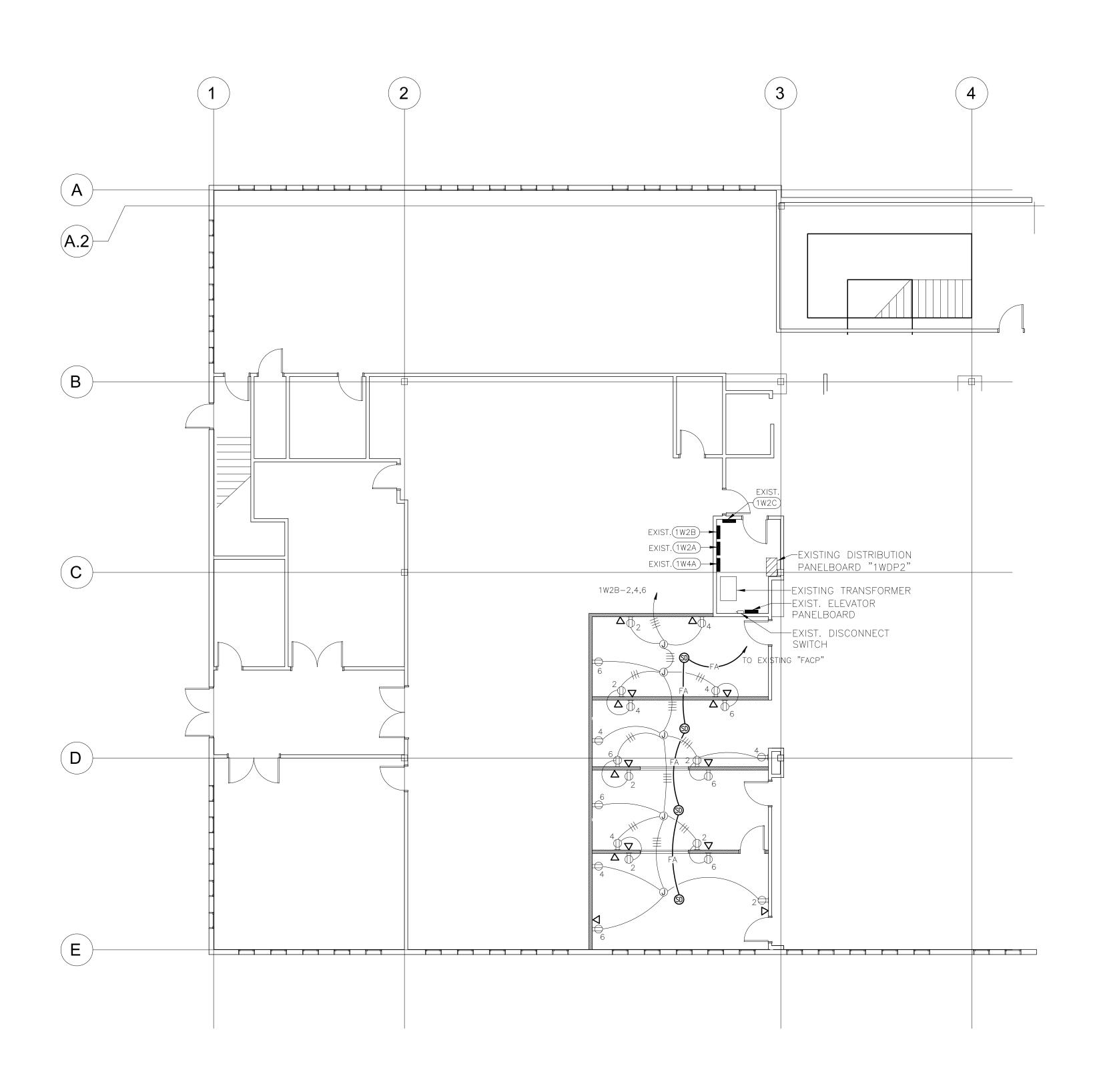
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DATE:

03.07.2019

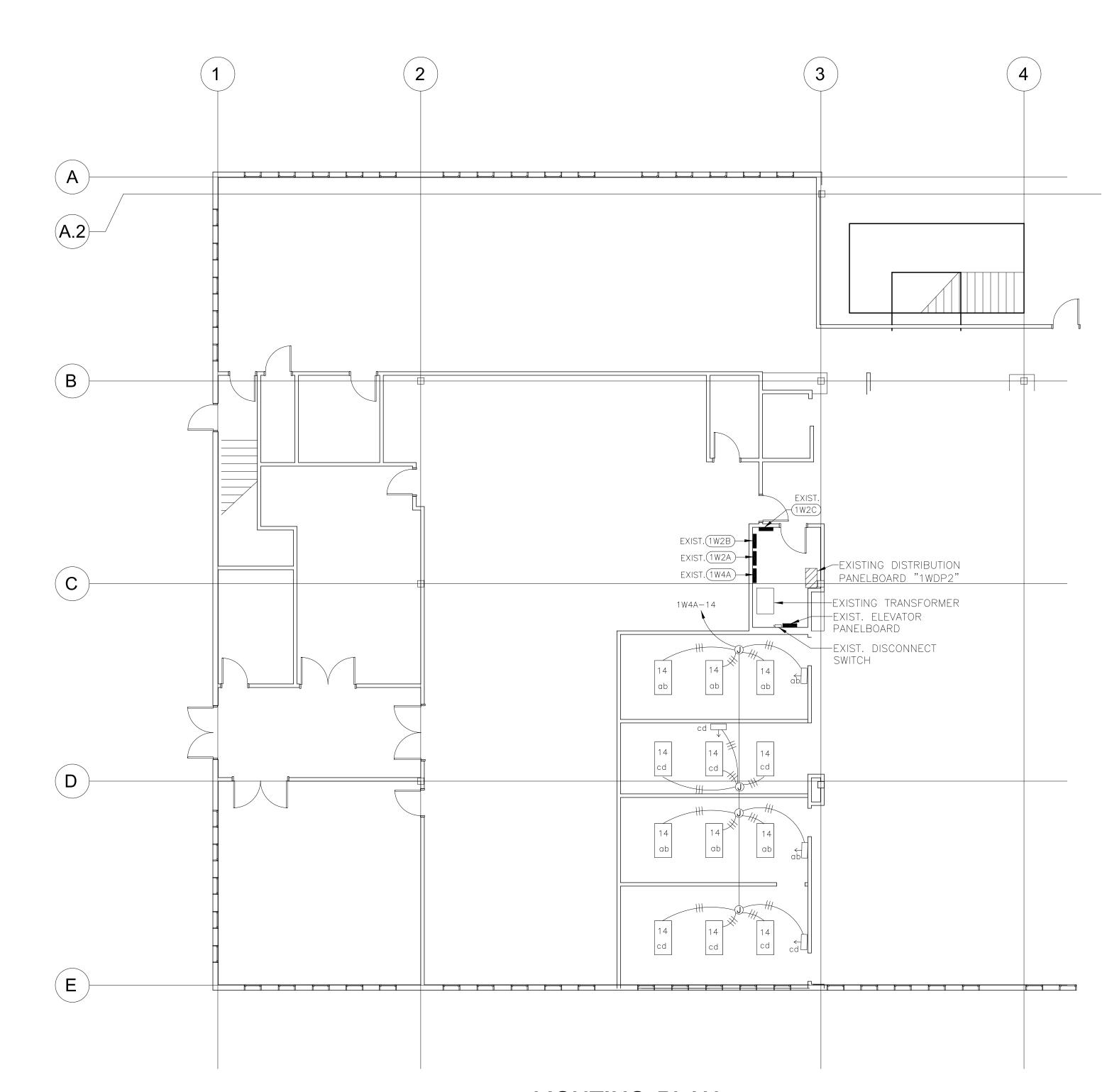
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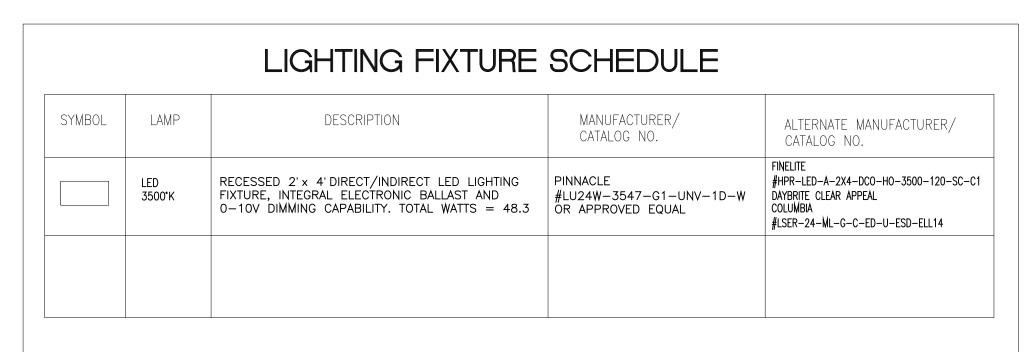


POWER/SIGNAL PLAN SCALE: 1/8"=1'-0"

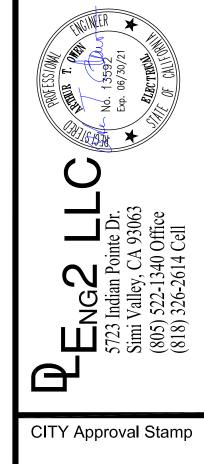
120/208 VOLTS						F	A	IEL	"1W2	В"			MAI	и вк	R: L	JGS ON	ILY	
3 PHASE						L	ocz	TION	1st. FLR. I	ELEC. RM	1.							250A A. BUSSING
4 WIRE			ER				ENT	ER C	SURFACE MTG.									
LOCATION	VO	DLT AN	/IPS	LTG		MIC	OID	BKR		DIAD	OID		DEO	LTG	VO	LT AN	IPS	LOCATION
LOCATION	φА	φВ	φC	LCL	REC	MIS	CIR	BKK		BKR	CIK	MIS	REC	LCL	φА	φВ	φC	LOCATION
SPARE OFF	0			_	_	_	1	20/1	+	20/1	2	-	7	_	1260			NEW OFFICE RECEPTACLE
SPARE OFF		0		_	-	_	3	20/1	1+++	20/1	4	-	7	_		1260		NEW OFFICE RECEPTACLE
SPARE OFF			0	_	_	_	5	20/1	1 + + +	20/1	6	-	7	_			1260	NEW OFFICE RECEPTACLE
SPARE OFF	0			-	-	-	7	20/1		20/1	8	-	-	_	0			SPARE OFF
SPARE OFF		0		-	-	-	9	20/1	1 + + +	20/1	10	-	-	_		0		SPARE OFF
SPARE OFF			0	-	-	-	11	20/1	1 + + +	20/1	12	-	-	_			0	SPARE OFF
SPARE OFF	0			-	-	-	13	20/1	1 + 1	20/1	14	-	-	-	0			SPARE OFF
SPARE OFF		0		-	-	-	15	20/1	1 +++	20/1	16	-	-	_		0		SPARE OFF
SPARE OFF			0	-	-	_	17	20/1	1 + + +	20/1	18	-	-	_			0	SPARE OFF
SPARE OFF	0			_	_	_	19	20/1	1 + 1	20/1	20	-	_	_	0			SPARE OFF
SPARE OFF		0		_	-	_	21	20/1	1 +++	20/1	22	-	_	_		0		SPARE OFF
SPARE OFF			0	-	-	-	23	20/1	1 + + +	20/1	24	-	-	_			0	SPARE OFF
SPARE OFF	0			-	-	-	25	20/1		20/1	26	-	-	_	0			SPARE OFF
SPARE OFF		0		_	-	_	27	20/1	1 +++	20/1	28	-	-	_		0		SPARE OFF
SPARE OFF			0	-	-	-	29	20/1	1	20/1	30	-	-	_			0	SPARE OFF
SPARE OFF	0			-	-	-	31	20/1	1	20/1	32	-	-	_	0			SPARE
SPARE OFF		0		-	-	-	33	20/1	1 +++	20/1	34	-	-	_		0		SPARE OFF
SPARE OFF			0	-	-	-	35	20/1	1 + + +	20/1	36	-	-	_			0	SPARE OFF
SPARE	0			-	-	-	37	20/1		20/1	38	-	-	_	_			SPARE OFF
SPARE OFF		-		-	-	-	39	20/1	1 +++	20/1	40	-	-	_		_		SPARE OFF
SPARE OFF			-	-	-	-	41	20/1	1 + + +	20/1	42	-	-	_			_	SPARE OFF
] ' ' '									
♦A= 1260	'	•	•		φB=	126	i0 \	OLT AN	IPS		•	•	•	4	C= 12	260 V	OLT AW	(PS
TOTAL CONNECTED	LOAD:	3780	VA	N		₹	10.	5 AM I	PS @ 20)8 VOLT	rs –	,	3 ø					
LCL: 0																		
FDL: 3780 VOLT AMPS	OR 10.5 A	MPS																



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



277/480 VOLTS						ı	PAN	IEL	"1	W	1Α	"			MAI	N B	CR: 10	00A,3P				
, 3 PHASE						ı	_OCA	TION	1st. FLR. ELEC. RM.									,		100A A. BUSSING		
4 WIRE						ı	EED	ER							ENT	ER (CAB'T.	ΑT		SURFACE MTG.		
	vo	LT AM	LTG												LTG	VOLT AM		PS				
LOCATION	φА	φВ	φC	or LCL	or REC	MIS	CIR	BKR				BKR	CIR	MIS	REC	or LCL	φА	φВ	φС	LOCATION		
EXISTING LIGHTING	2200			1	-	-	1	20/1	•		\vdash	20/1	2	-	-	1	2200			EXISTING LIGHTING =		
EXISTING LIGHTING		2200		1	-	-	3	20/1	1 -	•	- [20/1	4	_	-	1		2200		EXISTING LIGHTING =		
EXISTING LIGHTING			2200	1	-	-	5	20/1	1 -	+	- [20/1	6	-	-	1			2200	EXISTING LIGHTING =		
EXISTING LIGHTING	2200			1	-	-	7	20/1	-		- [30 /	8	_	-	-	4150			EXISTING =		
EXISTING LIGHTING		2200		1	-	-	9	20/1	1 -	•	- [7	10	-	-	-		4150		W\CKT#8 =		
EXISTING LIGHTING			2200	1	-	-	11	20/1	1 +	+	- [/ 3	12	-	-	_			4150	W\CKT#8 =		
SPACE	-			_	-	_	13	-	-		- [20/1	14	-	-	15	725			NEW LIGHTING =		
SPACE		-		_	-	-	15	-	1 +	•	\vdash [-	16	-	-	_		_		SPACE =		
SPACE			-	_	-	-	17	-	1 -	+	- [_	18	-	-	-			_	SPACE =		
										1	' [=		
φA= 11475 VOLT AMPS		•	•	•	φB=	: 10	750	VOLT A	MPS				•				þ C = 10	0750	VOLT A	MPS =		
TOTAL CONNECTED LOA	D : 3	2975	VA			OR	39.	7 A l	MPS	@	480	VO	LTS	- 3	3 ø					=		
LCL: 20525 VOLT AMPS x 1	25% =	25656	VOLT .	AMPS																Ξ		



E-2.1