

THE PREMISES TO BECOME ACQUAINTED WITH THE CONDITIONS TO BE ENCOUNTERED. NO EXTRA PAYMENTS WILL BE ALLOWED FOR ANY EXTRA WORK WHICH MAY BE REQUIRED DUE TO FAILURE OF THE CONTRACTOR TO THOROUGHLY EXAMINE THE PREMISES PRIOR TO BID.

## WORK INCLUDED IN THIS SECTION

A COMPLETE AND OPERABLE EXTENSION OF THE NEW 208/120V, 3-PHASE, 4-MIRE, AND POWER SYSTEMS INCLUDING CONDUIT, WIRE, FITTINGS

## APPLICABLE CODES AND REGULATIONS

2016 CALIFORNIA ELECTRICAL CODE. 1

REGULATIONS OF ALL OTHER AUTHORITIES HAVING JURISDICTION.

### PERMITS AND APPROVALS

AS REQUIRED BY CITY ORDINANCES TO BE OBTAINED AND PAID FOR BY THE CONTRACTOR.

### LOCATIONS

THE DRAWINGS INDICATE DIAGRAMMATICALLY THE DESIRED LOCATION OR ARRANGEMENT OF CONDUIT RUNS, OUTLETS, EQUIPMENT, ETC., AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE. PROPER JUDGMENT MUST BE EXERCISED IN EXECUTING THE WORK SO AS TO SECURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME DIFFICULTIES OWING TO SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURAL CONDITIONS WHEREVER ENCOUNTERED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND COORDINATE THE LOCATION OF ALL DUTLETS AND LIGHTING BYTHRES WITH THE ARCHITECTURAL STRUCTURAL AND MECHANICAL DRAWINGS AND WITH ALL SHOP COMINDO PILLO DICE SI AND DESTROYA DE SENTA DE S PLACED SYMMETRICALLY WITH RESPECT TO THE CEILING TILE PATTERN OR OTHER ARCHITECTURAL CEILING AND WALL MODULES.

AWY DAMAGE TO THE STRUCTURE OR FINISHED SURFACES DUE TO THE INSTALLATION OF THE ELECTRICAL WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIR BY THE TRADESMEN OF THE TRADE INVOLVED.

### SHOP DRAWINGS

PROVIDE EIVE COPIES OF CATALOGICATS FOR EACH OF THE FOLLOWING ITEMS:

- PANELBOARDS
   MATERIAL LIST
- STRUCTURAL CONDITIONS

PENETRATE NO STRUCTURAL ELEMENTS INCLUDING SHEAR WALLS, WITHOUT WRITTEN CONSENT OF ARCHITECT.

REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR WIRING, DIAGRAMS, EXACT EQUIPMENT LOCATION, AND OTHER INFORMATION REGARDING THE EXTENT OF ELECTRICAL WORK REQUIRED BUT NOT INDICATED ON ELECTRICAL DRAWINGS.

# EXCAVATIONS

DO ALL EXCAVATING NECESSARY FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK WHETHER OR NOT INDICATED ON THE DRAWNISS OR SPECIFICE, WHEN ON THE COMMENS PROPERTY, UNDERSCROUND PRIVARY AND SECONDARY SERVICES AND HEND LICEAGE RESERVES AND BUILD LICEAGE RESERVES AND HEND LICEAGE THAN 18" BELOW FINISH GRADE

AFTER THE INSTALLATION OF WORK REQUIRING EXCAVATIONS HAS BEEN INSPECTED AND APPROVED, ALL EXCAVATIONS SHALL BE FILLED WITH CLEAN EARTH AND TAMPED TO A CONSISTENCY SO THAT NO SETTLEMENT WILL COCUR, AND THE GROUD LEFT FIRM AT NATURAL GRADE. A

EXCAVATED EARTH WHICH IS NOT USED FOR BACKFLL SHALL BE REMOVED FROM THE PREMISES OR OTHERWISE DISPOSED OF AS ILIRECTED.

ALL PLANTS, SHRUBS, TURE AND SURFACING THAT OCCUR IN THE AREA OF THE EXCAVATION SHALL BE CAREFULLY REMOVED AND PLACED WHERE THEY WILL NOT BE DAMAGED. AFTER THE EXCAVATIONS ARE FILED. THE PLANTS, SHRUBS, TURE AND SURFACING SHALL BE REPLACED AS DIRECTED. ALL SIDEWALKS DRIVEWAYS OR OTHER CEMENT OR ASPHALT SURFACES WHICH ARE DAMAGED DURING EXCAVATION SHALL BE REPAIRED TO MATCH THE ADJACENT WORK IN MATERIAL AND ENISH

# CONDUITS

INSTALL ALL CONDUIT CONCEALED EXCEPT AS NOTED ON DRAWINGS.

GALVANIZED OR SHERARDIZED RIGHT STEEL CONDUIT FOR EXPOSED CONDUIT BELOW 6 FT, WHEN LISED EXPOSED ON EXTERIOR OR WHEN INSTALLED IN MASONRY OR CONCRETE. USE GALVANIZED COUPLINGS, LOCKNUTS, BUSHINGS AND CONNECTORS.

NON-INSTALLIC: RIGID PVC ELECTRICAL CONDUIT EXTRUDED TO SCHEDULE 40 DIMENSIONS OF HIGH IMPACT, VIRGIN POLYVINYL CHLORIDE AND SHALL BEAR U.L. LABEL. PVC, SCHEDULE 40 CONDUIT SHALL BE USED FOR ALL UNDERGROUND RUNS. ENCASE IN CONCRETE OF 3" MINIMUM THICKNESS ON ALL SIDES. USE STANDARD STEEL CONDUIT ELLS WHEREVER A RUN TURNS UP ABOVE GROUND OR CONCRETE SLABS. WHER CONDUIT SIZE IS INCREASED FOR GROUND CONDUCTOR BY A CHANGE TO PYC. INCREASE THE SIZE OF THE ENTIRE LENGTH OF THE CONDUIT RUN

ELECTRICAL METALLIC TUBING: THIN WALL, GALVANIZED STEEL WITH COMPRESSION FITTINGS ONLY: FOR ALL CONCEALED WORK OR WHEN

FLEXIBLE METALLIC CONDUIT: SPIRAL INTERLOCKED, GALVANIZED STEEL FOR CONDUIT CONCEALED ABOVE GROUND, NOT ENCASED IN MASONRY OR CONCRETE AND PROHIBITED IN WET OR DAMP LOCATIONS: SEAL-TITE OIL RESISTANT FLEXIBLE CONDUIT WITH PROPER FITTINGS FOR WET OR DAMP LOCATIONS. WHERE FLEXIBLE METALLIC CONDUIT IS PERMITTED, THE TOTAL LENGTH OF THE CONDUIT IN ANYONE RUN SHALL NOT EXCEED 6

HCF-90 HOSPITAL GRADE ARMORED STEEL CABLES MAY BE USED FOR DROPPED TO OUTLETS IN WALLS AND HORIZONTAL RUNS IN WALL. HOMERUNS CONDUITS ABOVE CELING AND ALL HORIZONTAL RUNS ABOVE CELING SHALL EMT.

INSTALL METALLIC CONDUCT AS A COMPLETE SYSTEM CONTINUOUS FROM OUTLET TO DUTLET CASINET BOX OR FITTINGS AND SO MECHANICALLY ED THAT ADEQUATE ELECTRICAL CONTINUITY FROM ONE CONDUIT TO ANOTHER IS SECURED. HOWEVER THIS SHALL NOT CONSTITUTE THE MECHANICAL GROUND FOR THE CIRCUIT

INSTALL CONDUIT AS INDICATED ON PLANS AND FRMLY SECURED AT LEAST 6" FROM ANY HOT WATER PIPE, HOT AIR DUCT, FLUE OR VENT

ELASH AND COUNTER ELASH ALL CONDUIT PENETRATING SLOPED RODES WITH GALVANIZED SHEET STEEL RODE JACKS. ALL PENETRATIONS. THROUGH FLAT ROOF SURFACES BY ELECTRICAL CONDUIT SHALL BE THROUGH PITCH POCKET PANS A MINIMUM OF 6" LARGER THAN THE CONDUIT. PAN SHALL BE FILLED WITH HOT COAL TAR PITCH

## CONDUCTORS

98% CONDUCTIVITY, SOFT DRAWN COPPER, TYPE "THW" WIRE, 600V, INSULATION FOR GENERAL WIRING: TYPE "THHN" 600V, INSULATION FOR USE WHERE AMBIENT EXCEEDS 30 DEGREES C. COPPER WIRE FOR ALL CONDUCTORS. MANUFACTURED BY ANACONDA, GENERAL CABLE, GENERA ELECTRIC, OR EQUAL. CONDUCTORS 48 AND LARGER SHALL BE STRANDED, CONDUCTORS #10 AND SMALLER SHALL BE SOLID

DO NOT USE ANY MECHANICAL DEVICE TO PULL WIRE UNLESS SPECIFICALLY APPROVED BY ELECTRICAL ENGINEER

IDEAL YELLOW #77 OR EQUAL PULLING COMPOUND IS THE ONLY LUBRICANT PERMITTED FOR PULLING WIRE.

LISE SPLIT BOLT OR HUPRESS COMPRESSION CONNECTORS FOR #6 AWG AND LARGER CONDUCTORS, WRAP JOINTS WITH A MINIMUM OF THREE (X) S OF SCOTCH TAPE #33 WHERE SPLICES ARE TO BE WATERPROOFED. ADD PROPER HEAT-SHRINK OR COLD-SHRINK TUBES OR WITH A 3M

USE 3M SCOTCHLOK OR IDEAL WING-NUT CONNECTIONS FOR #8 AWG AND SMALLER CONDUCTORS

CALVANIZED PRESSED STEEL KNOCKOUT TYPE FOR GENERAL INTERIOR WIRING, PROPER SIZE FOR NUMBER OF WIRES BUT NOT LESS THAN 4"

### FIRESTOPPING

ALL OUTLIET BOXES INSTALLED IN PATED WALLS /LOR 2 HOURLSHALL NOT BE CLOSER THAN 24". ALL SLICH OUTLIET BOXES SHALL ALSO BE WRAPPED WITH AN APPROVED FIRESTOPPING PADIS). U.L. LISTED AND CERTIFED PADIS) SHALL BE IPE TYPE FSP1077 OR EQUAL BY NELSON. OUTLETS OR BOXES GREATER THAN 16" SQUARE SHALL BE ENCLOSED IN A RATED ENCLOSURE EQUAL TO THE BATED WALL IN WHICH INSTALLED

### SWITCHBOARDS

PROVIDE NEWA STANDARD DESIDAED, DEAD FROMT, DEAD REAR, BUS BARS OF 89 PERCENT COMPER, BRACED FOR \$0,000 AMPÉRES RUS SYMMETRICAL AWAL BLE FAULT COMPRET SYNTO-BOOM PARISON TEO AND ASSENSILED OF VICE MANUFACTURES. DESIGN OF SYNTO-BOOM TO SEC COMPARISE BY THO COSE REQUIRESTINGS AND THE RECOGNISTING OF THE OF SERVING UTILITY OF UTILITY METERINGS. EQUIPMENTS, COMPONENTS, AND MOUNTING DEVICES AS THOUGH SPECIFIED HEREIN. OVERCURRENT DEVICES SHALL BOLT-ON QUICK-LAG, AMBIENT COMPENSATED, THERMAL MAGNETIC TYPE SINGLE HANDLE, COMMON TRIP FOR 2 AND 3 POLES BREAKERS.

BOLT-ON TYPE, AMBIENT COMPENSATED, THERMAL MAGNETIC TYPE CIRCUIT BREAKERS SERIES RATING, SINGLE HANDLE, COMMON TRIP FOR 2 AND 3 POLE BREAKERS. BUSSING SHALL BE COPPER. INSTALL A TYPEWRITTEN DIRECTORY ON INSIDE OF DOOR TO DESIGNATE OUTLETS OR EQUIPMENT SERVED BY CIRCUIT. FLUSH OR SURFACE WOUNTED AS INDICATED WITH HAWMERTONE GRAY FINISH AS MANUFACTURED BY SQUARE "D" CO PANELBOARDS MANUFACTURER BY SQUARE D. EATON OR SIEMENS. FLUSH PANEL TRIM SHALL BE A ON PIECE ASSEMBLY WITH HINGED LOCKABLE

ALL PANEL BOARDS SHALL HAVE BUS BRACING AND CIRCUIT BREAKER PAULT INTERRUPTING CAPABILITY TO WITHSTAND AND INTERRUPT THE AVAILABLE RIMS SYMMETRICAL FAULT CURRENTS INDICATED ON THE DRAWINGS. IN NO CASE, HOWEVER, SHALL THIS CAPABILITY BE LESS THAN FOR 10,000 AMPERES AT 208/240 VOLTS

EXTERNOR WEATHERDROOF PANEL BOARDS SHALL BE MEMA TYDE 3P, NEMA 5 AND NEMA 12 PATED WITH GASKETING AND OTHER AMENITIES TO COMPLY WITH ALL RATINGS.

MOTOR SWITCHES: PROVIDE FOR FRACTIONAL HORSEPOWER MOTORS WHERE NO REMOTE CONTROL IS REQUIRED. FOR CONTROLLING SINGLE PHASE MOTORS OF 3/4 HORSEPOWER OR LESS RATING EQUIPPED WITH INTEGRAL THERMAL PROTECTION, PROVIDE SQUARE D, CLASS 2510 OF GENERAL ELECTRIC TYPE CR101.

MAGNETIC MOTOR STARTERS; UNLESS OTHERWISE INDICATED, PROVIDE NOW, REVERSING, FULL VOLTAGE, ACROSS THE LINE MECHANISMS, CLOSED BY COLE ACTION AND OPPRIED BY GRAVITY. EQUIP STARTERS WITH 120 VOLL COLES AND SELF CONTAINED CONTRIOL. TRANSFORMER UNLESS OTHERWISE MONICATED, RESET DUTNOT 10 DE ACCESSISE WITHOUT OF PROMISE STARTERS SEA INDICATED OR REQUIRED BUT NOT SMALLER THAN NEWA SIZE 1. GENERAL ELECTRIC CRIDS OR SQUARE D. CLASS 85%

COMBINATION STARTERS: PROVIDE A CIRCUIT REPAKER OR SWITCH IN COMMON ENCLOSURE WITH MAGNETIC STARTER WHERE INDICATED TO CORRELATIONS SAFERS A COUNTILE A CHARGE FOR EACH OF SAFE AND SAFE ONLY ON FUSED CIRCUITS.

DRIVING ENCLOSINGS FOR MOTOR STARTERS, MOTOR SWITCHES, AND COMBINATION STARTERS INLESS INVESTED OR SPECIFIC TO MOUNT WITHIN THE ENCLOSURES SPECIFIED FOR MOTHER PRODUCT, PROVIDE NEMA 1 ENCLOSURES FOR INDIOOR USE AND NEMA 3R ENCLOSURES FOR CUT OF DOORS AND AREAS SUBJECT TO MOISTURE.

PROVIDE PILOT LIGHTS AND CONTROL DEVICES AS INDICATED, OPERABLE AT FRONT OF ENCLOSURE WITHOUT OPENING ENCLOSURE. WHERE NOT OTHERWISE INDICATED FOUR MACNETIC STARTERS WITH STOP START PUSH BUTTON STATIONS WHERE NO REMOTE AUTOMATIC CONTROL IS INDICATED, AND WITH HAND OFF AUTO SELECTOR SWITCHES WHERE CONTROLLED BY AUTOMATIC DEVICE.

DISCONNECT SWITCHES SHALL BE 250 YOLT OR 600 YOLT A.C., COMPLYING WITH SOURCE VOLTAGE, HEAVY DUTY NEMA TYPE HD, QUICK MAKE, QUICK BREAK, HORSEPOWER RATED, NON-FUSIBLE OR FUSIBLE SWITCHES IN NEWA TYPE 1 ENGLOSURE WITH NUMBER OF POLES AND AMPERAGE AS INDICATED ON THE DRAWNASS. FUSBLE SWITCHES SHALL BE FOURPED WITH REJECTION CLIPS TO PREVENT THE USE OF ONE-TIME AND RENEWABLE FUSES. WHERE ENCLOSURE IS INDICATED WEATHERPROOF, AND FOR DUTDOOR USE, SWITCHES SHALL BE IN RAINTIGHT NEWA TYPE

WHERE FUSES ARE REQUIRED. PROVIDE DUAL ELEMENT "BUSS" "FUSETRON" FUSES LINLESS OTHERWISE INDICATED ON DRAWING

# DEVICES

## CIRCUIT SWITCHES

CIRCUIT SWITCHES SHALL BE WHITE, TOTALLY ENCLOSED, BAKELITE, OR COMPOSITION BASE, TOGGLE TYPE WITH 240 VOLT, A.C. RATING FOR FULL CAPACITY OF CONTACTS FOR INCANDESCENT OR FLUORESCENT LAMP LOADS. SWITCH RATINGS SHALL BE 20 AMPERE ONLY. SWITCHES SHALL BE BACK AND SIDE WIRED.

- 2. LOCK TYPE SWITCHES SHALL MATCH EXISTING SWITCHES WHE RE NEW WORK CONSISTS OF REHABILITATION OR ADDITION TO EXISTING
- 3. SWITCHES SHALL BE WHITE COLOR FOR MORRAW POWER AND BED WHEN CONNECTED TO EMERGENCY POWER

# DIMMERS AND DAYLIGHT CONTROLS

- 0-10 YOLT LED WALL BOX DIMMERS IN OPEN OFFICE AREAS SHALL BE LEVITION #AWSINT-7DW (WHITE) OR APPROVED EQUAL. DIMMER SHALL RE RATED 1920/3680/4432 VA 120/230/277 VOLTS
- 0.10 VOLT LED WALL BOX DIMMER OCCUPANCY SENSORS SHALL BE LITTROM MAS 7:101 VOM ANHITELOR APPROVED FOLIAL DIMMER SHALL BE
- 3 STAND ALONE PHOTODIODE (PHOTOCELL FOR DAYLIGHT HARVESTING SHALL BE GREENGATE #DLC-PD-DIM

# OCCUPANCY LIGHT SENSOR CONTROL

- WALL SWITCH SENSORS SHALL BE CAPARLE OF DETECTION OF OCCUPANCY AT DESKTOP LEVEL UP TO 300 SQUARE EFET, AND GROSS MOTION UP TO 1000 SQUARE FEET
- WALL SWITCH SENSORS SHALL BE DUAL TECHNOLOGY ACCOMMODATING LOADS FROM 0 TO 800 WATTS AT 120 VOLTS: 0 TO 1200 WATTS AT 277 VOLTS AND SHALL HAVE 180° COVERAGE CAPABILITY.
- WALL SWITCH PRODUCTS SHALL UTILIZE ZERO CROSSING CIRCUITRY WHICH INCREASES RELAY LIFE, PROTECTS FROM THE EFFECTS OF INRUSH CURRENT, AND INCREASES SENSOR'S LONGEVITY. WALL SWITCH SENSORS SHALL HAVE NO LEAKAGE. CURRENT TO LOAD, IN MANUAL OR IN AUTO/OFF MODE FOR SAFETY PURPOSES AND SHALL HAVE VOLTAGE DROP PROTECTION
- WALL SWITCH SENSORS SHALL PROVIDE A RELIGISELECTARLE OPTION TO CONVERT SENSOR OPERATION FROM WALL SITTLE SENGUES SPALL FROM EAR THE SECURION DESCRIPTION TO CONVENT SENGUE OF PRIVILEY FROM AUTOMATICAL ON AND HAVE WANDAL RESISTANT CONSTRUCTION AND UTILIZE A HARD LENS WITH A MINIMUM. 1.00M THICKNESS. PRODUCTS UTILIZING A SOFT LENS WILL NOT BE CONSIDERED.
- 5. ALL SENSORS SHALL CONSIST OF PASSIVE INFRARED AND ULTRASONIC TECHNOLOGIES FOR OCCUPANCY DETECTION

# **ELECTRICAL SPECIFICATIONS** PRODUCTS THAT REACT TO NOISE OR AMBIENT SOUND SHALL NOT BE CONSIDERED

- WALL SWITCH/OCCUPANT LIGHT SENSOR SHALL BE GREENGATE #ONW-1001-MV-W WITH A SINGLE SWITCH AND #ONW-D-1001-DMV-W (WHITE) WHERE BI-LEVEL LIGHT CONTROL IS INDICATED.
- #OAC-DT-2000, OAC-DT-1000, OAC-DT-0501 WITH A HEAVY DUTY SWITCHPACK #SP20-MV

## DUPLEX RECEPTACLES

- DUPLEX RECEPTACLES SHALL BE WHITE, GROUNCING TYPE, 125 VOLT, 20 AMPERE AND SHALL HAVE TWO CURRENT CAPRYING BALLASTS CONTACTS AND ONE GROUNDING CONTACT WHICH IS INTERNALLY CONNECTED TO THE FRAME. OLD ET SHALL ACCOMMODATE STANDARD PARALLEL BLADE CAP AND SHALL BE SIDE WIRED ONLY. RECEPTACLES SHALL HAVE LF-GROUNDING STRAPS, WHICH ARE U.L. APPROVED FOR INSTALLATION WITHOUT A BONDING JUMPE
- BECEDTACLES SHALL BE INSTALLED WITH THE U.F. CROLLINDING CONTACT AT THE TOP, EXCEPT FOR DECEPTACLES INSTALLED. FOR TIXED APPLIANCES. WHERE RECEPTACLES NEED TO BE MOUNTED HORZONTALLY, THEY SHALL BE INSTALLED NEUTRAL CONTRACT AT THE TOP.
- SAFETY TYPE DUPLEX RECEPTACLES: SAFETY TYPE DUPLEX RECEPTACLES SHALL BE GROUNDING TYPE, 15 AMPERE, 128 VOLT WITH THYO CURRENT CARRYING CONTACTS AND ONE GROUNDING CONTACT WHICH IS INTERNALLY CONNECTION THAT PRAME, INTERNAL CONSTRUCTION SHALL BE SO THAT CURRENT IS SHUTTED AWAY FROM METALLIC OBJECTS INSERTED INTO ANY OPENING, OUTLET SHALL ACCOMMODATE STANDARD PARALLEL BLADE CAR
- DUPLEX G.F.I. RECEPTACLE: GROUNDING TYPE DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER SHALL CONFORM OTENANCE INSERPAGAZIONE SOCIOURING THE DUCKE WHICH CAPITATION OF AUXILIARIES PROPERIES ALLOWED TO THE CONTROLL OF A MATERIAL CONTROLL OF AT THE RECEPTAGE BINNING OF A SCOUND, DIVIDED THE RECEPTAGE SHALL BE CONTINUED THE RECEPTAGE DIVIDED AND ASSESSED THAT AS DO RESERVED THAT AS DO RESERVED THAT AS DO RESERVED THAT AS DO RESERVED AND ASSESSED THAT AS DO RESERVED THAT AS DO RESERVED
- 5. OTHER DEVICES: WHITE COLOR, SPECIFICATION GRADE, OF TYPE NOTED IN SYMBOL LIST AND PLANS.
- 6. MANUFACTURED BY PASS & SEYMOUR, LEVITON, BRYANT, GENERAL ELECTRIC OR ARROW-HART

- 1. REQUIRED FOR ALL WIRING DEVICES, TELEPHONE AND DATA OUTLETS AND SIMILAR APPLICATIONS.
- WALL PLATES: (WHITE, PLASTIC), (0.040" TYPE 302 ALLOY STAINLESS STEEL), SPECIFICATION GRADE, STANDARD SIZE, SWOOTH AND SHALL BE LISTED BY UNDERWITTERS LADORATORES. ALL WALL PLATES SHALL BE OF ONE MAKE AND DESK EQUAL TO PASS & SEYMOUR (PLASTIC LINE) (STAINLESS STEEL LINE). ENGRAVE ALL PLATES AS NOTED ON PLANS OR OF 3
- 3. GANG COVERS FOR GANG BOXES.

- FACTORY PREPARED, STEEL METAL RACEWAY SHALL BE USED FOR ALL EXPOSED INTERIOR WIRING.
- EACH RUN SHALL INCLUDE ALL OUTLET BOXES, ELBOWS, COUPLINGS, TEES, OFFSETS, COVERS, CONDUIT ENTRY FITTING AND OTHER
- 3. ALL SURFACE METAL RACEWAY SHALL BE OF THE SIZE RECOMMENDED IN THE MANUFACTURER'S PUBLISHED DATA FOR THE NUMBER AND IF CONDUCTORS CONTAINED IN THE RACEWAY AND SHALL BE EQUAL TO THE WIREMOLD CO. PRODUCT:
- TYPE "1" RACEWAY AS INDICATED ON THE DRAWINGS SHALL BE A TWO COMPARTMENT WITH EMERGENCY POWER RECEPTACLES IN ONE COMPARTMENT AND NORMAL POWER RECEPTACLES IN THE OTHER COMPARTMENT. RACEWAY SHALL BE WIREMOLD 4000 SERIES WITH DUPLEX RECEPTACLES AND PLATES INSTALL ONE CENTERS AS INDICATED ON THE DRAWINGS.
- TYPE "2" RACEWAY AS INDICATED ON THE DRAWINGS SHALL BE ONE-PIECE RACEWAY RECEPTACLES IN RACEWAY OUTLET BOXES LOCATED AS INDICATED ON THE DRAWINGS. RACEWAY AND DEVICE OUTLET BOXES SHALL BE WIREWOLD 700WH SERIES WITH RECEPTACLES AND ACCESSORIES AS INDICATED HEREIN

# NAMEPLATES

DROWING BLACK-ONLINEITE MANIEDLATES FOR EACH SIMTCHROADD, DANEL TERMINAL CARINET CONTROL CENTER DITH, BOY DISCONNECT SIMTCH PROVIDE BUTCH OF THE IE INVIDENTIALS FOR EXPONDING HOUSE, LEDING CHIEF, LOCAL THOCK CENTER, TO THE BUTCH BUTCH AND MACHINETIA ONTOR STATTER TO CORRESPOND WITH DESIGNATIONS ON THE DRAWINGS. NUMERILATES SHALL BE SECURED WITH SCREWS, BOLTS OR RIVETS, OTHER MEANS OF ATTACHMENT SHALL NOT BE ACCEPTED, "DYMO" TYPE LABELS WILL NOT BE ACCEPTED, NAMEPLATES FOR DEVICES OR EQUIPMENT SUPPLIED BY EMERGENCY POWER SHALL BE RED-ON-WHITE

# LIGHTING FIXTURES

FURNISH AND INSTALL U.L. APPROVED LIGHTING FIXTURES AT ALL LIGHTING OUTLETS INDICATED ON THE DRAWINGS.

FIXTURES ARE LISTED AND DESCRIBED IN THE FIXTURE SCHEDULE ON THE DRAWINGS

INSTALL FIXTURES AT HEIGHTS INDICATED ON THE DRAWINGS OR AS DIRECTED. FURNISH AND INSTALL ALL SUPPORTS REQUIRED FOR THE INSTALLATION OF THE ENTLINES.

SOCKETS: CORROSION RESISTANT METALS OF BRASS, BRONZE OR COPPER ALLOY; PRESSED ALUMINUM SHELLS OR CONTACTS ARE NOT ACCEPTABLE

# INSTALL LAMPS IN ALL FIXTURES.

# DIFFUSERS

UNLESS NOTED OTHERWISE, ALL LIGHTING FIXTURE DIFFUSER SHALL BE VIRGIN ACRYLIC PLASTIC.

ALL FLAT PLASTIC DIFFUSERS SHALL BE CLEAR WITH MALE CONICAL PRISMS AND MANUFACTURED FROM CLEAR VIRGIN ACRYLIC LENS SHALL BE AS IMMUFACTIRED BY ROHM 8 HAAS CO., KSH OR CONTINENTAL POLYWERS, NOMINAL 2'X4' OR SMALLER LENSES SHALL HAVE A MINIMUM MARKEN REPORT OF THE REPOR

PROVIDE 120 VOLT INCANDESCENT LAMPS, GENERAL SERVICE, INSIDE FROSTED, MEDIUM BASE. FLUORESCENT LAMPS SHALL BE 32 WATT T-8 3500 K, 2900 LUMENS AS LISTED IN FIXTURE SCHEDULE OR AS REQUIRED. LAMPS SHALL BE MANUFACTURED BY NORTH AMERICAN PHILLIPS, G.E, SYLVANIA, OSRAM OR EQUAL

METAL HALIDE LAMPS: METAL HALIDE LAMPS SHALL BE OF THE WATTAGE SHOWN, CLEAR OR PHOSPHOR-COATED AS DESCRIBED UNDER "FIXTURE TYPES', LAMPS SHALL BE FOR BASE UP. BASE DOWN OR FOR BURNING POSITIONS OTHER THAN VERTICAL BASE UP OR BASE DOWN AS SPECIFICALLY REQUIRED FOR EACH FIXTURE. THE EXACT LAMP SHALL BE USED FOR EACH CONDITION. LAMPS SHALL BE STANDARD LINE TYPE

HIGH PRESSURE SODIUM LAMPS: HIGH PRESSURE SODIUM LAMPS SHALL BE USED ONLY WITH HIGH PRESSURE SODIUM BALLASTS AND SHALL BE OF THE WATTAGE AS CALLED FOR ON THE DRAWINGS AND/OR AS SPECIFIED HEREINAFTER UNDER "FIXTURE TYPES", LAMPS SHALL BE CAPABLE OF OPERATION IN ANY POSITION. BULB FINISH SHALL BE CLEAR OR DIFFUSE AS CALLED FOR UNDER "FIXTURE TYPES".

FUNDESCENT ELECTRONIC: BALLAST SHALL BE INTEGRATED CRICLIT. FULLY SOUD STATE TYPE: ULL INTER AND LABELED AND ELLLY SELF PROJECTION BULLST SHALL BE SUTFACE FOR THE TOTAL OF THE TOTAL SHALL BE SHAL GUIDELINES OF IEEE PUBLICATION 587, CATEGORY A. NEUTRAL PHASE (THIRD HARMONIC) CURRENT SHALL BE LIMITED TO A MAXIMUM OF 20% FOR

AST NOISE LEVEL SHALL BE BELOW AUDIBLE UNDER TYPICAL "QUIET" AMBIENT CONDITIONS SUCH AS SOUND STAGES. CREST FACTOR SHALL

META, HALDE AND HIGH PRESSURE SCOUM BALLAST: ALL BALLASTS FOR META, HALDE LAMPS SHALL BE HIGH POWER FACTOR, CONSTANT WAITENCE, MUTOTRANSFORMER AND DESINED AND MAINSFORMED HIACOGRANICE HITH AND AND LIS SPECIFICATIONS AND STANDARDS, CORE AND CLI BALLASTS PARIL BELL COMPOSITY, DECORRIGED AND BRITE 19 FLOOR, FOR MIRALASTS HANK LIEU, LISTED AND BREAT HE UI.

ALL BULLASTS FOR HIGH PRESSURE SOCIUM LAMPS SHALL BE HIGH POWER FACTOR, HIGH REACTANCE, AUTOTRANSFORMER TYPE AND DESIGNED AND MAIN FACTURED IN ACCOMMINENT HIT HAS NOU. SPECIFICATION AND STANDARDS, CODE, AUTO, COD, BULLASTS SHALL BE U. LICENPOWERT SHEEP AND DEATH THE LLUCKO, COMPONENT, SPECIFICATION SHEEP AND SEAT THE LLUCKO.

CORE-AND-COL RALLASTS SHALL INCORPORATE A CLASS 180°C INSULATION SYSTEM ICLASS HUMB RE VACUUM IMPREGNATED WITH SUICA FILLED POLYSTER VANISH TO ASSURE COOL, QUIET, LONG LIFE OPERATION, WHERE CAPACITOR VOLTACES ARE 300 VOLTS CLESS, THE CAPACITOR SHALL BE POTTED IN A NON-CONDUCTIVE CONTAINER, HAVE NO EXPOSED LIFE PARTS, AND BEAR THE LOGO, CAPACITOR CASE TEMPERATURE.

IGNITORS, WHERE REQUIRED FOR METAL HALIDE OR HIGH PRESSURE SOODIN LAMPS. SHALL BE POTTED IN A NON-CONDUCTIVE CONTAINER. IGNITOR CASE TEMPERATURE LIMITATION SHALL BE 165°C FOR 100 VOCT HPS LAMPS (250 AND 400 WATT HPS) AND 90° FOR ALL OTHER HPS AND METAL HALDE LAMPS. IGNITORS AND CAPACITORS SHALL ALSO BEAR THE 9Y LOGO.

BALLAST VOLTAGE: REGARDLESS OF VOLTAGES THAT MAY BE IMPLIED BY CATALOG NUMBERS OR OTHER INFORMATION INCLUDED LINDER FORLIRE DESCRIPTIONS, THE CONTRACTOR SHALL VERFY THE CORRECT VOLTAGE FOR ALL BALLASTS AND SHALL ORDER THE CORRECT BALLASTS ACCORDINGLY.

### LED LUMINAIRE REQUIREMENTS

- 1. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
- 2. NRTL COMPLIANCE: LUMINAIRES FOR HAZARDOUS LOCATIONS SHALL BE LISTED AND LABELED FOR INDICATED CLASS AND DIVISION OF
- 3 FM GLORAL COMPLIANCE: LUMINAIRES FOR HAZARDOUS LOCATIONS SHALL BE LISTED AND LARFLED FOR INDICATED CLASS AND DIVISION OF
- RECESSED FIXTURES: COMPLY WITH NEMA LE 4.
- 5 BULB SHAPE COMPLYING WITH ANSI C79 1
- 6 LAMP BASE COMPLYING WITH ANSI CR1 61 OR IEC 60061-1
- 7. CRI OF MINIMUM 80. CCT AT 4100 K
- 8. RATED LAMP LIFE OF 50,000 HOURS MINIMUM.
- 9. LAMPS DIMMABLE FROM 100 PERCENT TO 0 PERCENT OF MAXIMUM LIGHT OUTPUT
- 10. INTERNAL DRIVER WITH 0-10 VOLT DIMMING CONTROLLER AS INDICATED ON THE DRAWINGS
- 11. LED DRIVER SHALL BE OPTICALLY ISOLATED
- 12 NOMINAL INPUT OPERATING VOLTAGE: 120/277 V AC.
- 13. LED DRIVER AND LEDS SHALL HAVE A 10 YEAR LIMITED WARRANTY, THE WARRANTY INFORMATION SHALL BE SUBMITTED WITH THE SHOP
- 14. LENS THICKNESS: AT LEAST 0.01875 INCH MINIMUM UNLESS OTHERWISE INDICATED

PROVIDE A YVARRANITY FOR ALL LABOR AND EQUIPMENT FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE PROJECT. ANY ELECTRICAL TROUBLE DEVELOPING DURING THIS PERIOD DUE TO FAULTY WORKMANSHIP OR MANUFACTURE SHALL BE COVERED UNDER THE WARRANTY AND IMMEDIATELY CORRECTED AT NO COST TO THE OWNER.

# TESTS

TEST ALL WIRE FOR SHORTS, OPENS, GROUNDS, OR OTHER DEFECTS: CORRECT ANY DEFECTIVE WORK, DEMONSTRATE CONTINUOUS SATISFACTORY OPERATION OF ALL ELECTRICAL WORK WITH THE OWNER BY RUNNING THROUGH MANUAL OPERATIONS



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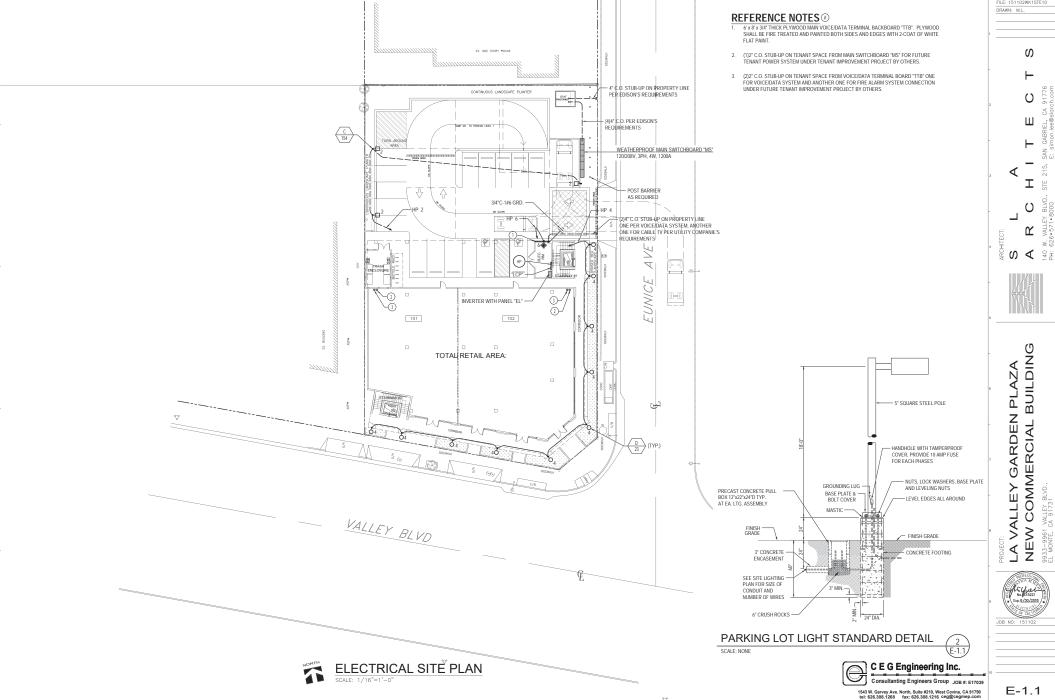
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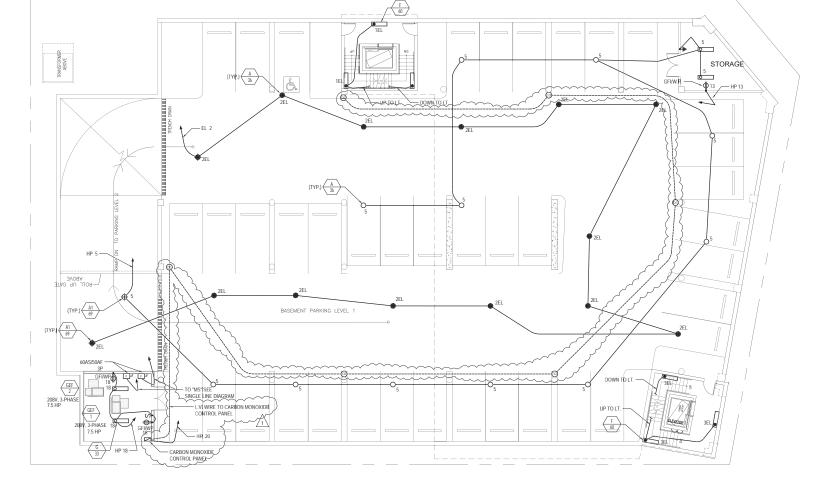
FILE: 151102WK1STE10

E-1.1

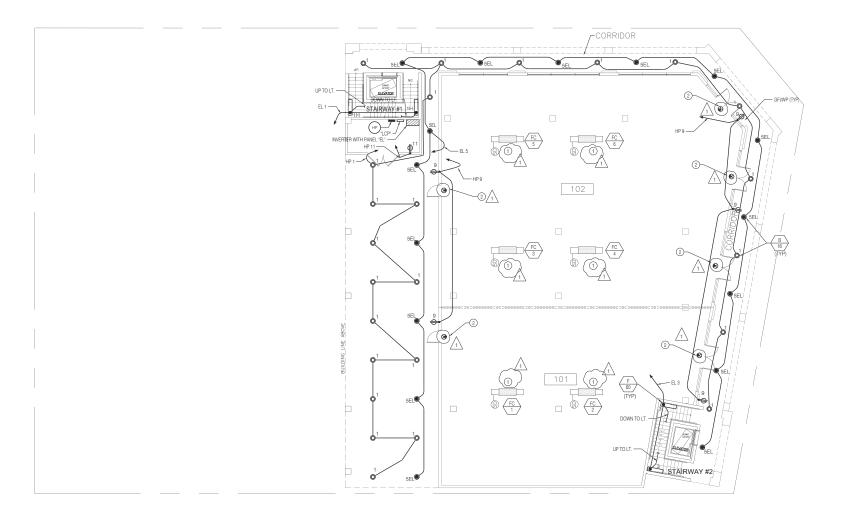
E-2.2

C E G Engineering Inc. 1543 W. Garvey Ave. North, Suite #210, West Covina, CA 91790 tel: 626.308.1268 fax: 626.308.1216 ceg@cegmep.com





PROVIDE (1)3/4°C.O. FOR EXIT SIGN POWER CONNECTION UNDER TENANT IMPROVEMENT PROJECT BY OTHERS.







E-2.3

FILE: 151102WK1STE10
DRAWN: M.L.

H I E C I S

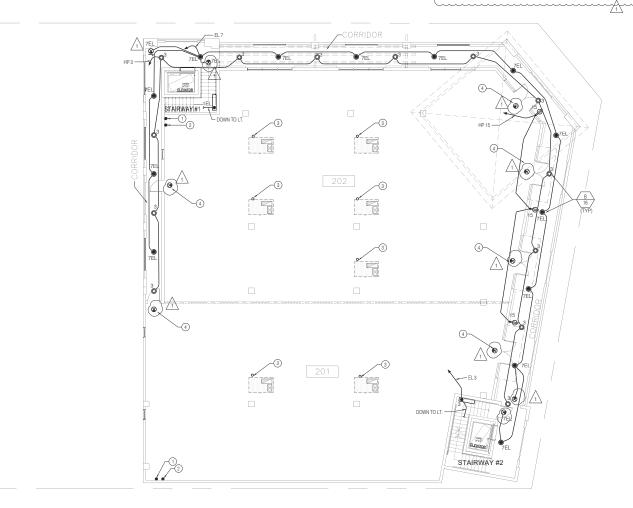


E-2.4

1543 W. Garvey Ave. North, Suite #210, West Covina, CA 91790 tel: 626.308.1268 fax: 626.308.1216 ceg@cegmep.com



- (2)2" C.O. STUB-IP ON TENANT SPACE FROM MAIN SWITCHBOARD "MS" FOR FUTURE TENANT POWER SYSTEM UNDER TENANT IMPROVEMENT BY OTHERS.
- (2)2°C.O. STUB-UP ON TENANT SPACE FROM VOICE/DATA TERMINAL BOARD "TTB" ONE FOR VOICE/DATA SYSTEM AND ANOTHER ONE FOR FIRE ALARM SYSTEM CONNECTION UNDER FUTURE TENANT IMPROVEMENT PROJECT BY OTHERS.
- PROVIDE (1)1°C.O. FOR FUTURE POWER CONNECTION AND (1)1/2 °C.O. FOR INTERLOCKING CONTROL FOR FUTURE TENANT IMPROVEMENT PROJECT BY OTHERS.
- PROVIDE (1)3/4°C.O. FOR EXIT SIGN POWER CONNECTION UNDER TENANT IMPROVEMENT







 $\mathbb{C}$ S ⋖

BUILDING AZA PL GARDEN OMMERCIAL

ш VALL ⋖

C E G Engineering Inc. Consultanting Engineers Group IOR #: E17039

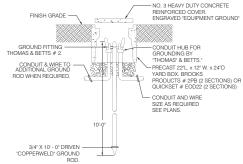
E-3.1



GROUND BUS

- 3. 1'C-1#3/0 EQUIPMENT GROUND TO BUILDING STEEL.
- 4. 1'C-1#3/0 ELECTRODE GROUND.
- FOR COLD WATER GROUND BOND WITHIN FIVE(5) FEET OF COLD WATER PIPE ENTERING TO THE BUILDING

ENGRAVED LETTERING TO READ 'EQUIPMENT GROUND BUS'. ATTACH NAMEPLATE TO WALL ABOVE



**GROUND ROD DETAIL** SCALE: NONE

E-3.1

23,583 VA

MAIN SWITCHBOARD 'MS' LOAD CALCULATION

125% LCL =

	ment officer
NEW RESTAURANT SPACE:	9 422 CO ET
LIGHTING LOAD: 2VA/S	
GENERAL RECEPTACLE	S: 1VA X 9,433 S
KITCHEN EQUIPMENT: 3	OVA X 3,500 SQ.
HVAC: 8VA/SQ.FT. X 9,43	3 SQ.FT. =
SUB-TOTAL:	
NEW RETAIL SPACE:	7,318 SQ.FT.
LIGHTING LOAD: 3VA/S	Q.FT. X 7,318 SQ
GENERAL RECEPTACLE	S: 1VA X 7,318 S
HVAC: 8VA/SQ.FT. X 7,31	8 SQ.FT. =
SUB-TOTAL:	
HOUSE PANEL LOADS:	
HOUSE FAREE COADS.	

LIGHTING LOAD: 2VA/SQ.FT. X 9,433 SQ.FT. X 125% LCL =	23,583	VA
GENERAL RECEPTACLES: 1VA X 9,433 SQ.FT. =	9,433	VA
KITCHEN EQUIPMENT: 30VA X 3,500 SQ.FT.	105,000	VA
HVAC: 8VA/SQ.FT. X 9,433 SQ.FT. =	75,464	VA
SUB-TOTAL:	213,480	VA
NEW RETAIL SPACE: 7,318 SQ.FT.		
LIGHTING LOAD: 3VA/SQ.FT. X 7,318 SQ.FT. X 125% LCL =	27,443	VA
GENERAL RECEPTACLES: 1VA X 7,318 SQ.FT. =	7,318	VA
HVAC: 8VA/SQ.FT. X 7,318 SQ.FT. =	58,544	VA
SUB-TOTAL:	93,305	VA
208V, 3-P	HASE, 4-WIRE 853	AMP
HOUSE PANEL LOADS:	250	AMP
TOTAL MAIN SWITCHBOARD "MS" ESTIMATE LOADS: 208V, 3-P	HASE, 4-WIRE 1,103	AMP

OUIFUI				FOWER FAL	
CIR	BRKR	LIGHTS	VOLT AMPS	SERVING/LOCATION SERVING/LOCATION	REMARKS
1	20A-1P	8	480	STAIR WAY#1	
2	20A-1P	15	850	BASEMENT PARKING 1 EM. LTG.	
3	20A-1P	8	480	STAIR WAY#2	
4	20A-1P	15	850	BASEMENT PARKING 2 EM. LTG.	
5	20A-1P	16	256	FIRST FLOOR EMERGENCY LTG	
6	20A-1P		0	SPARE	
7	20A-1P	10	160	SECOND FLOOR EMERGENCY LTG	
8	20A-1P				
9					
10					
11					
12					
TOTAL			3076		

WEATHERPROOF MAIN SWITCHBOARD "MS"

1

400A

- STUB-UP AT TENANT

FUTURE RESTAURANT

3/4°C-2#10 & 1#10 GRD

- 5KVA INVERTER 208V INPLIT 120V OLITPLIT

30A-2F

SPACE (TYP)

THWN CU

MAIN CIRCUIT:

POWER FACOR:

AIC RATING:

40

400A

(M)

200A

FUTURE RETAILS

120/208V. 3-PHASE. 4W. 1200A (65KAIC)

) 50A 3P

60AS 50AF 3P

GEF #2

30A

PANEL HP

47A

E-3.1

EMERGENCY CENTRAL INVERTER "EL'

60AS 50AF 3P

GEF #1

30A

4

200AS 125AF 3P

92A

SINGLE LINE DIAGRAM

SCALE: NONE

ELEV. #2

92A

208V. 3-PHASE 208V. 3-PHASE 208V. 3-PHASE

NOTE: PROVIDE SHUNT-TRIP BREAKER FOR ELEVATOR DISCONNECT

30HP (V.L.) 30HP (V.L.) 7.5HP (TYP FOR 2)

INPUT VOLTAGE: 208 VOLTS

OUTPUT VOLTAGI 120 VOLTS

OUTPUT RATING: 5.0kVA/5.0kW

-(M)

1200A

-(4)

E.G.B.B

GROUND ROD, SEE 2 E6.1,

PHOTOCELL ON ROOF FACEING

TO THE NORTH

CONDUIT AND CONDUCTORS

ALSO INCLUDE UN-SWITCHED HOT

TO CONTROLLED LIGHTING

CIRCUIT

SURFACE

SURFACE

6" RECESS

18' POLE

WALL

SURFACE

SURFACE

SURFACE

TIME CLOCK, PHOTOCELL OVERRIDE

TIME CLOCK, PHOTOCELL OVERRIDE

TIME CLOCK, PHOTOCELL OVERRIDE

TIME CLOCK, PHOTOCELL OVERRIDE TIME CLOCK, PHOTOCELL OVERRIDE

**LUMINAIRE SCHEDULE** 

154W LED

60W LED

33W LED

1200A

(3) 4°C.O. PER EDISONS REQUIREMENT

PER EDISON'S REQUIREMENTS

CONDUIT AND CONDUCTORS

PANFI

HP

PANEI

EL

PARKING LOT

2ND FLOOR EXTERIOR

FIRST FLOOR EXTERIOR

DESCRIPTIONS HE WILLIAMS LTG. #VG1-LED30-740-T5-SM-BLK-DIM-

PEACHTREE LIGHTING.#6BLRD-18-40-80-SH-TRW-

LSI LTG. #XALM-FT-LED-SS-40-UE-BLK-IMS-SBCEG

WITH POLE #ULS-SSA-4151-15

BROWNLEE LTG. #7333-AB-F23LED-40K

EMERGILTE-XSI X-20-X-R-AF-N-SRCEG

NEW STAR LTG #STWL-4TRES-L2-40-UNV-SD3

LSI INDUSTRIES-WNA10-LED-SS-NW-UE-SBLOG

HE WILLIAMS LTG. #VG1-LED65-740-T5-SM-BLK-DIM-

LCP

GREENGATE #CKT-8

365-DAY PROGRAMMABLE LIGHTING

CONTROL PANEL APPROVED BY

EXTERIOR LIGHTING CONTROL WIRING DIAGRAM

CALIFORNIA ENERGY COMMISSION

ARE REQUIRED FOR LIGHTING AND POWER CIRCUIT

LCP ID: LCP

Supply Circuit:

Relay Circuit

1 HP-2

2 HP-1

3 HP-4

4 HP-3 5 EL-5

7 PHOTOCEL 8

SCALE: NONE

UNV-SBLOG

UNV-SBLOG

120-SBI OG

ITEM NO./WATTS

A/36

A1/69

B/16

C/154

D/23

F/60

G/33

**(29**)

Location: Electrical Room

SECTION

	В			225A M.L.	
REMARKS	В	REAK	ER		L
		AMP	POLE	LTG	RB
PARKING GARAGE	1	20	1	23	
PARKING GARAGE	3	20	1	13	
	- 5	20	1	12	
PARKING GARAGE	7	20	1	15	
PARKING GARAGE	9	20	1		5
	11	20	1		1
	13	20	1		1
	15	20	1	-	3
	17	30	1		
DRILLED-MOUNT ON SLAB PER STRUCTURE	19	30	/		
	21	/	2		_
ENGR CALCULATION	23				
	25	_			_
EXTERIOR WALL	27	-		-	-
EXTERNOR WALL	29	_			-
	31	$\vdash$		_	Н
STAIRWELL	35	-	-	-	$\vdash$
STAINWELL	37	-		-	$\vdash$
	39	-	-		$\vdash$
	41	-	-		$\vdash$
	41	_		-	_
			2	15% C	ON

				1207		A
	B			225A		
		м	AIN:	M.L.	0.	
	В	REAK	ER		LO	N
	#	AMP	POLE	LTG	REC	ĥ
	1	20	1	23		t
	3	20	1	13		t
	- 5	20	1	12		t
	7	20	1	15		t
	9	20	1		5	t
	11	20	1		1	t
	13	20	. 1		. 1	t
	15	20	1		3	t
	17	30	1			t
	19	30	7			t
R STRUCTURE	21	/	2			t
	23					Т
	25					t
	27					T
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	mount.	M.L.	0.								FED FRO	M: MAI	I SW	TCH	BOAR	D	_	_
REA	KER		LC	AD	CIRCUIT	CKT	TO	TAL V	A	CKT	CIRCUIT		LO	AD		BF	EAK	ER
Al	POLE	LTG	REC	MISC KITO	DESCRIPTION	V-A	A	8	c	V-A	DESCRIPTION	клон	MSC	REC	LTG	AMP	POLE	
20	1	23			FIRST FL EXTERIOR LTG	368	968			600	PARKING LOT POLE LTG				3	20	1	2
20	1	13			2ND FL EXTERIOR LTG	208	-	508		100	EXTERIOR WALL SCONCE				10	20	1	4
20	1	12			BASEMENT PARKING 1	1000		-	1400	400	VOICEDATA BOARD "TTB"			1		20	1	6
20	1	15			BASEMENT PARKING 2	1000	1500			500	ELEVATOR PIT			1	1	20	1	8
20	1		5		FIRST RECEPTACLE	900		1400		500	BLEVATOR PIT			1	1	20	1	10
20	1		1		ELECTRICAL ROOM RECEPT	200			700	500	ELEVATOR CAB LT		1			20	1	12
20	1		1		MECH ROOM RECEPT	200	700			500	ELEVATOR CAB LT		1			20	1	14
20	1		3		2ND FL RECEPTACLES	540	1000	740	17777	200	ELEVATOR ROOM			1	100	20	1	16
34	1			1	WFC-1	2280	900	1000	2680	400	MECHANICAL ROOM			2	2	20	1	18
1	0/			1	5KVA INVERTER "EL"	2500	2700	Visio	36000	200	002		6		- 11	20	1	20
1	2					2500	2000	2500			SPACE							22
	$\top$				SPACE			-	0		SPACE							24
Ξ					SPACE		. 0				SPACE							26
Ξ					SPACE			0			SPACE							28
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					SPACE			(, )	0		SPACE							36
					SPACE		0				SPACE							38
					SPACE			. 0			SPACE							40
					SPACE				0		SPACE				1/			42

1543 W. Garvey Ave. North, Suite #210, West Covina, CA 91790 tel: 626.308.1268 fax: 626.308.1216 ceg@cegmep.com

	(Flavised (4516)	_					CALIFORNIA ENERGY COMMISSION
Indoor Lighting	F COMPLIANCE						NRCC-LTI-01-6 (Page 1 of 6)
Project Name LA		Dieta.				Date Prepared	
- SA	AWITTA GOSTALA	FUNDA					ECONOMIC.
A. General In	formation						
Climate Zone	Cor	nditioned Flo	or Area:				
	9 Un	conditioned I	Floor Area: 37586 SQ.FT.				
Building Type:			Nonresidential		High Rise Residential	10	Hotel/Motel
Schools		-	Relocatable Public Schools		Conditioned Spaces	2	Unconditioned Spaces
Phase of Const	nuction:	- 81	New Construction		Addition	0	Alteration
Method of Compliance:			Complete Building	183			Tailored
Project Addres		144	Complete sonerig	180	I were caregory		Tianore
Project Adores	K						
n Habelon Co	- Constant		destruction and description	3.4.4			
			elect yes for each document in				
		COMP. DI		illancir do	currents, refer to the Norvesia	Pertial Monuel put	dahed by the California Energy Commission.
WES .	NO O	NRCC4TIG		N. Billion of the	and the state of the state of		
	0	NRCC-LTI-0					along for all to be into
0	0	NRCC4714			ance, and the Carcinston. In	rages required on	parts for an supriscant.
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0	0	NACC-LTI-E			5		
0	8	NRCC4TI-0					
TATE OF CALIFOR	eva.	enderds - 2016	Nurresidental Compliance				Art 201
TATE OF CALFOR	GHTING		Nonresidental Compliance				CAL PORNIA ENERGY COMMUNICA
CA Building Energy Transport CAUSTING TO C	OVA GHTING 1 Sevent Octob F COMPLIANCE		Noonevidential Compliance				e

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

CA Building Energy Efficiency Standards - 2016 N	concesidantial (	nomediano.								April 201
TATE OF CALIFORNIA										
NDOOR LIGHTING ECHICCLTIST E Standard 06/16)								CAL FORMA ENERGY	COMME	80
CERTIFICATE OF COMPLIANCE								ACAD ACAD ACAD ACAD ACAD ACAD ACAD ACAD		CC-LTI-01
Indoor Lighting									()	Page 4 of
Project Name LA VALLEY GARDEN PLAZA							Date Prepared	13/20/2017		
	-	-								
G. Installed Portable Luminaires in Offi					100000		See 12.0 (1.54 (2.			
this compliance document.  This section is used to determine if greate  Fill out a separate line for each different of	r than 0.3 wa	tts of po	rtable lightin				table lighting)	may be grouped together.	This allo	wance
this compliance document.  This section is used to determine if greate Fill out a separate line for each different of shall not be traded between offices having	r than 0.3 wa	tts of por ffices the ghting sy	rtable lightir et are typical stems.	(having t	the same gr	neral and por	rable lighting) :	The second second		0000
this compliance document.  This section is used to determine if greate  Fill out a separate line for each different of	r than 0.3 wa	tts of por ffices the ghting sy	rtable lightin	(having t	the same gr	neral and por	table lighting)	may be grouped together.  Office Location		wance Inspecto
This section is used to determine if greate     Fill out a separate line for each different of     shall not be traded between offices having     Office Portable Luminaire Schedule	r than 0.3 wa office. Small o ng different li	its of por ffices the phting sy Office	rtable lightir et are typical stems. Installed Po	thaving t	the same gr	neral and por		Office Location		Inspecto
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this compliance document. This section is used to determine if greate Fill out a separate line for each different shall not be traded between offices havi- Office Portable Luminaire Schedule Of Complete Luminaire Description (i.e., LTD, under cabinet, femiture movies)	er than 0.3 wa office. Small o ng different li 02 Watts per	offices thurst of portion of the control of the con	rtable lighting at are typical stems. Installed Po- O4 Installed portable luminaine watta in this office (602 x 603)	table Lur 05	ninaire W/f 06 Watts per square fost	97 # 006 s 0.3, enter 18 606 > 0.3,	08 (605 x 607 )	Office Location 09 Identify Office area in which these portable	Field	Inspecto 10
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RTIFICA	TE OF CO	MPLIANCE							PALA ENERGY	N	RCC-LTI-01-	
oor Lig	hting	-					10				Page 2 of 6	
pert Nam	* LA VALLE	TY GARDEN PLAZA						Date Proposed 13/20/2017				
-	-											
		lowed Lighting Power										
ondition	ed and Ur	nconditioned space Lighting must not be co		or complia	nce	_	1-4	HARLES AND ADDRESS OF THE PARTY	mail and T			
-		Indoor Lighting Power for Conditioned	Spaces				Indoo	Lighting Power for Uncon	ditioned Sp			
- 1		Installed U		Wat	11			Installed Lie			VITS.	
01		NRCC LTI-01 E, Table H.	page 5					NRCC-LTI-01-E, Table H, p			2385	
02		Portable Only for	Offices	S								
		NRCC-LTI-01-E, Table G,	page 4	•		_			- 1			
03		Minus Lighting Control NRCC-LTI-02-E,						Minus Lighting Control C NRCC-LTI-G2-E, p			0	
04		Adjusted Installed Lighting	Power		0		- /	Adjusted Installed Lighting P	ower _		2185	
,,,		(now 1 plus row 2 minus	row 3)					[row I minus r	tw 3)		2300	
		Complies ONLY if Installed s Allowed (Box	04 < Box 0	15]		0	omplies ONL	Y if Installed s Allowed (Box	04 < Box (	05)		
+		Allowed Lighting Power		1			Allowed Li	ghiling Power				
		Conditioned NRCC-LTI-03-E, page 1					nditioned NI	CC-ETI-03-E, page 1				
75	Alter	lations with replacement luminaires that have a	at least			Alterat	tions with rep	acement luminaires that have	at least.		547E.5	
	50/35%	inwer power compared to the original existing I stead use the allowed wattage from NRCC-LTI-C	Si page 2					repared to the original existing lowed wattage from NRCC-LTI-				
_	-39,10	and the property springs man specifically		1	_			The second second		_		
Dood	ation of	Received Contillents of last 7									_	
		Required Certificates of Installation						to describe and the				
dare b	NO	yes for all of the Certificates that will be a Form/Title	ubmitted.	netan co	pres and v	ently form	s are comple	ned and ugned.)	_			
	700	NRCI-LTI-01-E - Must be submitted for a							-			
0	0				-				☐ Field	mspecto	e.	
0	0	NRCI-LTI-02-E - Must be submitted for a	lighting co	trys lorane	em, or for	an Energy	Manageme	nt Control System (EMCS),	E Feld	Inspecto	r.	
_	-	to be recognized for compliance.	. The same	and the section of the	Adlered			Barrier and the control				
0	0	NRCI-LTI-03-E - Must be submitted for a overcurrent protection panel used to er							[] Field	Inspecto	ė.	
331	-									187.15		
		NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a							Field Inspector			
0	0	conference room, a multiournose room						vention center, a	☐ Field I	Inspecto		
- 177	10770	conference room, a multipurpose room NRCI-LTI-OS-E - Must be submitted for a	, or a theat	ter to be n	ecognized	for compl	larce.		-	18000		
0	0	NRCI-LTI-05-E - Must be submitted for a	, or a thea Power Ad	ter to be n justment i	ecognized Factor (PA	for compl F) to be re	lance. reognized for	compliance.	☐ Field	hspecto	,	
0	0		, or a thea Fower Ad additional s	ter to be n justment i	ecognized Factor (PA	for compl F) to be re	lance. reognized for	compliance.	-	Inspecto	,	
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L le, and submit the track lighting compliance document (NRCC LTI-d5-E) when line-voltage track lighting is installed.

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		COMPLIANCE	CALFORNIA EMERGY COMMISSION MICC-LT1-02-6
		- Lighting Controls	(Page 1 of 3
ment bern	LA VALL	IY GANDEN PLAZA	12/36/2017
. Mai	ndator	y Lighting Control Declaration Statements (Indicate if the n	measure applies by checking yes or no below.)
YES	NO	Control Requirements	
0	0	Lighting shall be controlled by self-contained lighting control devices Efficiency Regulations in accordance with Section 110.9.	which are certified to the Energy Commission according to the Title 20 Appliance
0	0	shall be submitted in accordance with Section 130.4(b).	nagement control system in accordance with §110.9. An installation Certificate
0	0	One or more Track Lighting Integral Current Limiters shall be installed §130.0. Additionally, an installation Certificate shall be submitted in a	I which have been certified to the Energy Commission in accordance with §110.9 and accordance with Section 130.4(b).
0	0	A Track Lighting Supplementary Overcurrent Protection Panel shall be installation Certificate shall be installed in accordance with Section 1:	e installed in accordance with Section 110.9 and Section 130.0. Additionally, an 30.4(b).
0	0	All lighting controls and equipment shall comply with the applicable r instructions in accordance with Section 190.1.	requirements in §110.9 and shall be installed in accordance with the manufacturer's
0	0	All luminaires shall be functionally controlled with manual ON and OF	F lighting controls in accordance with Section 130.1(a).
0	0		systems in an area. Floor and wall display, window display, case display, consmental, sats that are 20 amps or less. When track lighting is used, general, display, rolled; in accordance with Section 130.1(a)4.
0	0	The general lighting of any enclosed area 100 square feet or larger, w multi-level lighting control requirements in accordance with Section	ith a connected lighting load that exceeds 0.5 watts per square foot shall meet the 130.1(b).
•	0	All installed indoor lighting shall be equipped with controls that meet	the applicable Shut-OFF control requirements in Section 130.1(c).
0	0	Lighting in all Daylit Zones shall be controlled in accordance with the	requirements in Section 130.1(d) and daylit zones are shown on the plans.
0	0	Lighting power in buildings larger than 10,000 square feet shall be ca accordance with Section 130.1(e).	pable of being automatically reduced in response to a Demand Responsive Signal in
•	0	normal use, indoor lighting controls serving the building, area, or site	ing or area, or a new lighting system serving a building, area, or site is operated for shall be certified as meeting the Acceptance Requirements for Code Compliance in Acceptance Requirements include automatic daylight controls, automatic shut-OFF

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance					January 20
BIAST OF CALFORNIA  THE OF CAL			CALIFORNIA EX	lamber de	6
CERTIFICATE OF COMPLIANCE			DALF OF THE LO	SCHOOL SO	NRCC-LTI-03-I
Certificate of Compliance - Indoor Lighting Power Allowance					(Page 1 of 4)
LA VALLEY GARDEN PLAZA	Sale	12	/20/2017		1000
If using Complete Building Method for compliance, use only the total in column (a) as total if using Area Category Method, Tailored Method, or a combination of Area Category and 1 allowed building watts		ce, use o		imn (b)	
01 Complete Building Method Allowed Watts, Documented in section B of NRCC+T1-03-E (b)	alou on this name	-	(4)	-	(%)
02 Area Category Method Allowed Watts, Documented in section C-1 of NRCC-LT-G3-E (bel		-		-	2182
03 Tailored Method Allowed Watts, Documented in section A of NRCC-LTI-04-E	JW-Uni Urss Balge)	$\neg$		н	. 4394
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-	171-01. Page 2. Bow 1	-	-	-	2167
☐ Check here if building contains both conditioned and unconditioned areas.					1,700
B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE					
01	02 WATTS	$\Box$	03 COMPLETE	$\Pi$	64 ALLOWED

CA Building Energy Efficiency Standards - 2016 Nonvesidential Compliance

For Alterations Only – Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if usin

Total Watts. Enter Total Watts into section A, row 2 (Above on this pa

CERTIFICATE OF COMPLIAN													NAC	C-LTI	02-E
ndoor Lighting - Lighting Co										45/0.6300			(8)	age 2	of 3)
LA VALLEY GARDEN	PLAZA								Total Program	12/20/201	7				
separate document n CONDITIONED SPA	nust be filled out for Conditione CES UNCONDITIONED		condit	ioned	Spac	es. Thi	is pag	e is u	sed on	ly for the	follow	wing:			
B. Mandatory and Pro	escriptive Indoor Lighting Contr	ol Sched	ale, PA	F Calc	ulatio	in, and	d Field	d Imag	ection						
										PAF Cred	t Calc	ulation"	33		-
Lighting Control Schedule					that ap	Comply ply, or xempte	leave e			Watts of Controlled Lighting	PAF	Control Credit (11 x 12)	If Acceptance Test Required	100000000	Field Impector
01	02	03	04	05	06	07	08	09	10	11	12	13	14		15
Location in Building	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc)	af of Units	\$130,1(a)	(4)0.0018	(b)t.0016	(p)11.0018	\$130.1(e)	\$140.6(a)2	\$140.6(d)					Pass	76
PARKING GARAGE	OCC SENSOR, DIMMER	58			*	- 83	20.	100	- 11			8		0	0
STORAGE	OCC SENSOR	1	16.	*	.0	- 10	40.		#			.0	0	0	0
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	IP MULTIPLE PRIORS ARE USED, E	NIER SUM	TOTAL	UF CON	es Ci	SERT FOR	an pag	es reco	s (sum	or an Conum	0.131	Enter Co into NRC			
ional lighting controls eck Table 140.6 A for c	controls; \$130.0(b) = Multi Level; \$136 installed to earn a PAF; \$140.6(d) = Pro orrect Factor, PAFs shall not be traded t, signed, and submitted.	ricriptive S	econdo	ry Sidel	it Dayl	ght Con	strols.							O.K.	te jis

ERTIFICATE OF COMPLIANCE						NRCC-LTI-01
Certificate of Compliance - Indoor Lighting R	ower Allowance					(Page 2 of
LA VALLEY GARDEN PLAZA		- 31	Sea Proposal	12/20/2017		
A separate page must be filled out for Con CONDITIONED spaces	Stioned and Unconditioned Spaces. This page is only for:  UNCONDITIONED spaces:					
Do not include portable lighting for officer	ERAL LIGHTING POWER ALLOWANCE  Portable lighting for offices shall be documented only in Sention area as defined in \$100.1 of the Standards.	ection G of NR	CC-LTI-03-	£.		
1. (1	01	02		03	TT	04
AREA CATEGORY Location in Building	(From §140.6 Table 140.6-C) Primary Function Area per Table 140.6-C	WATT: PER ft		AREA (ft²)	1.[	ALLOWED WATTS
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Enter sum	total Area Category allowed watts into section C-1 of N	RCC-LTI-03-J	Fifthis cor	noliance docume	ent)	5476.5

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 4 of 4
LA VALLEY GARDEN PLAZA	Del 12/20/2017
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
<ol> <li>I certify that this Certificate of Compliance documentation is according to the formation of th</li></ol>	rate and complete.
	Leidnich
CEG ENGINEERING	Number 1/1/2017
ES43 W. GARVEY AVE., NORTH #210	(SA SerVicence Mentification (Flaminished)
Chylline: Tip WEST COVINA, CA 91790	[636] 308-1368
RESPONSELL PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the S  1. The information provided on this Certificate of Compliance is true	and correct.
Conffy the following under providing of policys, under the lows of the 3.  The information provided on this certificial of Consultance is the 2. See rightly an experience of the certificial of the followings of the 2. See rightly to under this circumstance specifications, existential, co. The energy features and performance specifications, existential, co. Compulsive contents to the requirements of the 28, Peri 1 and 4.  The building design features or system design features in selection of discussment, workform, circulations, plant and specifications will advanced. Whether, circulations, plant and specifications will be a selected of the conference of the conference of the discussment, workform, circulations, plant and specifications will be designed to the conference of the conference of the discussment workform, circulations, plant and specifications will see designed to the conference of the conference of the discussment of the conference of the conference of the discussment of the conference of the conference of the discussment of the discussment of the conference of the discussment of the conference of the discussment of discussment of discussment of discussment of discussment of discussment of discussme	and correct. In occupant page, the property of the building design or system design identified on this Certificate of Compliance to occupant page, and membrated desirate to the building design or system design identified on this Certificate of an 4 of the Colorise Certificate of Certificate
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INDOOR LIGHTING - LIGHTING CONTROLS	CALIFORNIA EMENUY COMMISSION
CERTIFICATE OF COMPLIANCE	NRCC-L11-02-E
Indoor Lighting - Lighting Controls	(Page 3 of 3)
LA VALLEY GARDEN PLAZA	12/20/2017
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
<ol> <li>I certify that this Certificate of Compliance documentation is accurate.</li> </ol>	and complete.
Insurentiation Author Nume Jessica Yaek	
CEG ENGINEERING	3/1/2017
1543 W. GARVEY AVE., NORTH #210	CSA Careframon shreefisation of applicables
Chyllian Tor WEST COVINA, CA 95790	Page 100-1368
RESPONSIBLE PERSON'S DECLARATION STATEMENT	anguna sa
preparation designer).  The energy features and performance specifications, materials, composite for the preparation of the preparation of the 2A, Part 1, and Part 5, Compliance confirm to the requirements of Ticle 2A, Part 1, and Part 5, The building design features or system design features identified and deciments, workshorts, calculations, plant and specifications submitted in the confirmation of the preparation of the prep	correct.  corporations of the building design or system design identified on this Certificate of Compliance ments, and manufactured devices for the building design or system design identified on this Certificate of

INDOOR LIGHTING POWER ALLOWANCE

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

1543 W. GARVEY AVE., NORTH #210

83	02	08.	04	05	06	. 87
Primary Function	SqFt or Linear ft <sup>3</sup>	Additional Watts Allowed	Wattage Allowance (02 = 03)	Description(s) and Quantity of Special Luminate Types in each Primary Function Area	Total Design Watts <sup>3</sup>	WATTS Smaller of D4 or D6
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 $\stackrel{\frown}{\sim}$  C E G Engineering Inc. C E G Engineers Group JOB #: E17033
Consultanting Engineers Group JOB #: E17033

- C--life #210, West Covins, CA 91790
- C--compp.com 1543 W. Garvey Ave. North, Suite #210, West Covina, CA 91790 tel: 626.308.1268 fax: 626.308.1216 ceg@cegmep.com

E-4.2

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W. VALLEY BLVD., 626.571.8000

FILE: 151102WK1STE10 DRAWN: M.L.

BUILDING LA VALLEY GARDEN PLAZA
NEW COMMERCIAL BUILDIN
ELWONE, CA 9173 FLVO.

A. General Project Add Phase of Co Outdoor Lig	Information  Mess: 616 N. STONEM			ton Passed 3/1/2017	(Page 1 of			
A. General Project Add Phase of Co Outdoor Lig	Information Mess: 816 N. STONEM			non-Propert 3/1/2017				
Project Add Phase of Co Outdoor Lig	STONEM							
Phase of Co Outdoor Lig	BIGN STONEM	AND THE PROPERTY OF THE PARTY O						
Outdoor Lig	Constitution 79	IN AVE., ALHAMBRA, CA 9160	tu.	Total Illuminate 11187 SQ FT	ed Hardscape Area:			
	pretruction: 🔀	New Construction	☐ Addition	☐ Alteration				
have confi	ghting Zone (LZ)	□12·1	□12·2	Z12-3	□12·4			
	Irmed with the AHJ w	hich LZ applies to this site.	For default lighting zone design	gnations, see Title	24 Part 6, §10-114			
B. Lighting	Compliance Docume	ets (check box for each do	ocument included)					
			cy Standards compliance documen	ts, refer to the Nonre	rsidential Manual			
	the California Energy (							
	410-01-4	Certificate of Compliano						
	410-62-6		ols Certificate of Compliance					
	410-044		Allowance Certificate of Compilar					
☐ MICC	LIUGHE	Outdoor Lighting Existin	ng Conditions Certificate of Complia	PICE :				
C. Summar	y of Allowed Outdoo	r Lighting Power		T	Watts			
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90.	Alterations with NO alloy							
	10000	Complies ONLY if Ins	stalled (Box 02) ≤ Allowed (Box	01)				
02 1	Sum Total INSTALLED	Outdoor Lighting Wattage	e from NACC-LTO-01-E, page 3.		786			
	tion of Required Inst decking all Installation		itted. (Retain copies and verify con	regliance documents	are completed and			
NAC-LTO	-01-E - Must be submit	ed for all buildings		☐ Field Inspector				
	CS), to be recognized for		m, or for an Energy Management i	Control	d Inspector			
E. Declarat	ion of Required Cert	ficates of Acceptance						
Declare by o and signed.)		cates of Acceptance that will	be submitted. (Retain copies and					
MRCA-LTD	002 A - Must be submit	ted for outdoor lighting contr	rols.	☐ Flet	d Inspector			
f School /	of Luminaires form	est from the Outdoor Links	ting Power Requirements in \$1	40.7				
	01 I	pr one Ostobol Egis	OS LOMES SECTIONS IN 24					
Name	or Symbol	Description	of exempt luminaire in accorda	nce with the exem	ptions			

BEATE OF CALIFORNIA

Oxford Lighting  G. Schedele of Luminaires Exempt from the Oxford Requirements in \$130.2(b)  G. Schedele of Luminaires Exempt from the Oxford Requirements in \$130.2(b)  G. Schedele of Luminaires Exempt from the Oxford Requirements in \$130.2(c)  G. Schedele of Luminaires Exempt from the Oxford Requirements in \$130.2(c)  G. Schedele of Luminaires Exempt from the Oxford Lighting Control Requirements in \$130.2(c)  G. Schedele of Luminaires Exempt from the Oxford Lighting Control Requirements in \$130.2(c)  G. Schedele of Luminaires Exempt from the Oxford Lighting Control Requirements in \$130.2(c)  G. Schedele of Luminaires Exempt from the Oxford Lighting Control Requirements in \$130.2(c)  G. Schedele of Luminaires Exempt from the Oxford Lighting Control Requirements in \$130.2(c)  G. Schedele of Luminaires Exempt from the Oxford Lighting Control Requirements in \$130.2(c)  G. Schedele of Luminaires Exempt from the Oxford Lighting Control Requirements in \$130.2(c)  G. Schedele of Luminaires Exempt from the Oxford Lighting Control Requirements in \$130.2(c)  G. Schedele of Luminaires Exempt from the Oxford Lighting Control Requirements in \$130.2(c)  G. Schedele of Luminaires Exempt from the Oxford Lighting Control Requirements in \$130.2(c)  G. Schedele of Luminaires Exempt from the Oxford Lighting Control Requirements in \$130.2(c)  G. Schedele of Luminaires Exempt from the Oxford Lighting Control Requirements in \$130.2(c)  G. Schedele of Luminaires Exempt from the Oxford Lighting Control Requirements in \$130.2(c)  G. Schedele of Luminaires Exempt from the Oxford Lighting Control Requirements in \$130.2(c)  G. Schedele of Luminaires Exempt from the Oxford Lighting Control Requirements in \$130.2(c)  G. Schedele of Luminaires Exempt from the Oxford Lighting Control Requirements in \$130.2(c)  G. Schedele of Luminaires Exempt from the Oxford Lighting Control Requirements in \$130.2(c)  G. Schedele of Luminaires Exempt from the Oxford Lighting Control Requirements in \$130.2(c)  G. Schedele of Luminaires Exempt from the Oxford Li	CERTIFICATE OF COMPLIANCE	
G. Schedule of Luminaires Exempt from the Cutoff Requirements in \$139.2(b)  02  02  Name or Symbol  Constription of exempt Luminaire in accordance with the exempt  H. Schedule of Luminaires Exempt from the Outdoor Lighting Control Requirements in \$139.2(c)  02	Outdoor Lighting	
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Name or tem Tag	Complete Luminaire Description	Watts per Lambailre		mage was mined of Reports	Number of Luminosins	Total installed Wath in this area (03 x 55)	Primary Function area in which these furnishings are installed (Curdoor Lighting Zone)	BUG Rating	Pass	1000
.A	LED EXTERIOR WALL SCORCE	D	D	2	я	646		UH: UL: FVH: BVH: FH:	0	353
1	LED EXTERIOR STEP LIGHTS	4	п	2	в	140		UH: UK: FVH: BVH: FH:	0	
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		19457	TALLED W	ATTS PAG	E TOTAL:	784	Enter sum total of all pages (5 INSTALLED Outdoor lighting v NRCC-LTO-01-E; Page 1		3	96

CERTIFICATE OF COMPLIANCE

Outdoor Lighting

Insurance PACEIC VILLA ALHAMBRA - LOT 4 DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

3. I entitly that this Certificate of Compliance documental documentation Author Nation Jestica Yueh Jeiguel PF CEG Engineering, Inc. PERSONAL TOTAL NAME OF THE PERSONAL PROPERTY O enforcement agency for all applicable inspection builder provides to the building owner at occupa-ratio burgus hame. Jessica Yueh feiguel CIG Engineering, Inc.

1543 W. Garvey Ave. North, Suite 233 heen/lige. West Cavina, CA 71790

OUTDOOR LIGHTING

OUTDOOR LIGHTING

C E G Engineering Inc.

Consultanting Engineers Group JOB #: E17039

E-4.3

FILE: 151102WK1STE10 DRAWN: M.L. S

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I W. VALLEY BLVD., 626.571.8000  $\circ$  $\mathbb{C}$ ARC+





NEW COMMERCIAL BUILDING
BUSS-9991-9991-9417-8410-8



1543 W. Garvey Ave. North, Suite #210, West Covina, CA 91790 tel: 626.308.1268 fax: 626.308.1216 ceg@cegmep.com

INT OF CALFFORMA UTBOOK LIGHTING CONTROLS  ALFORMA DIRECT TOOLS TO Be The Best of TOOL  ALFORMA DIRECT TOOLS TO BE THE BEST COMMISSION  ALFORMA DIRECT TOOLS TO BE THE BEST COMMISSION  ALFORMA DIRECT TOOLS TO BE THE BEST COMMISSION  ALFORMA DIRECT TOOLS TO BE THE BEST TOOLS TO BE TH	OUTDOOR LIGHTING COM	NTROLS				200,000	BMA ENERGY CO	/andton	
ERTIFICATE OF COMPLIANCE NRCC-LTO-02-E	CERTIFICATE OF COMPLIANCE Outdoor Lighting Controls						COLUMN TO SERVICE SERV	NRCC-L	TO-02-E p= 2 of 3)
Fige 1 of 3	PACIFIC VILLA ALHAMERA - L	OT 6		100	3100	017		(7.94)	12.01.37
	B Mandaton Dudges Univ	ting Control Schedule and Field Inspection	Chaddler			_			- 10
. Mandatory Outdoor Lighting Control Declaration Statements	B. Mandatory Outdoor Light	ting Control Schedule and Freid Inspection	Спескизс				$\overline{}$		_
heck all that apply:  Upting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Tritle 20 Appliance Efficiency				Secretaria.	Complying	1000	ii.	1	ž.
Regulations in accordance with \$110.9(a).  Lighting shall be controlled by a lighting control system or energy management control system in accordance with \$110.9. An installation Certificate shall be submitted	Outdo	or Lighting Control Schedule	( )	of all that app	ply, or leave	empty if	- thi	cceptu	9
In accordance with \$130.4(b).				Ee	empted)		i	ança an	g.
All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.0(d).	01	62	03 04	05 06	07	80	09	10	11
Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirements in Section 110.9(b)\$.	Section Section	Type/ Description of Lighting Control (i.e. outdoor motion sensor, outdoor	7 3	9 8	5	8	8		
All outdoor incandescent luminaires rated over 100 watts, determined in acconfunce with Section 130.0(c), shall be controlled by a motion sensor,  All outdoor luminaires rated for use with lumps greater than 110 lamp watts, determined in accordance with Section 130.0(c), shall comply with	Location and Application of Luminaires Being	photocontrol, outdoor astronomical time-	of COS	\$130.28	\$130.23	\$130.2§	130 akg	Pati	Ē
Uplight and Glare requirements in accordance with Section 130.2(b)  All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control, or other control capable of automatically switching OFF	Controlled	control, part-night outdoor lighting control)	ones ==	2 2	2	#	2		
in accordance with Section 130.3(c)1.	EXTERIOR COURT YARD	OUTDOOR PHOTOCONTROL ATS	1					0 0	
7. All installed autdoor lighting shall be circuited and independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130-21c12.		1		_	$\vdash$			0 0	0
P. All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130 2(c)3.		2		=	=			0 0	0
For Outdoor Sales Frontage, an automatic lighting control shall be installed in accordance with Section 130.2(c)4.								0 0	0
For Building Facade, Ornamental Hardscape and Outdoor Dining Eighting, an automatic lighting control shall be installed in accordance with Section 130.2(c)5 Refore an occupancy permit is granted for the newly constructed building or for the addition, or for any altered outdoor lighting controls.		1	$\rightarrow$	_	$\vdash$			0 0	0
shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4 (a), Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8.					$\Box$			0 0	0
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UTDOOR LIGHTING POWER ALLOWANCES CARCICL/TOGAR (Minimal DICTR) CALFORNIA DICTRIC COMMISSION	OUTDOOR LIGHTING POV	VER ALLOWANCES					RMA DNENGY CO		(0)
ERTIFICATE OF COMPLIANCE NRCC-LTO-03-E	CERTIFICATE OF COMPLIANCE					100000	MANAGEMENT TO	NRCC-L	TO-03-E
Utdoor Lighting Power Allowances (Page 1 of 4)	Outdoor Lighting Power Allowances PACIFIC VILLA ALHAMBRA - LO				W1/2	2017		(Pag	pr 2 of 4)
OUTDOOR LIGHTING POWER ALLOWANCE SUMMARY  General Hardiscape Lighting Power Allowance (Site Tatal from Section 8 of NRCC+310-03-1)  1. 2206.88	C. ADDITIONAL "USE IT OR LO.  D. The additional specific outdoor lig	SE IT" OUTDOOR LIGHTING POWER ALLOY fiting power allowance shall be the smaller of the a	WANCES FOR SPE flowed lighting power	er or the actual	ICATIONS il lighting po	ower used.			100
Additional Specific "use it or lose it" Lighting Power Allowances listed in such of these cells shall be identical to total allowed watts elemined in Section C-1 to C-4 of MICC-LTD-01-6.	☐ Use Outdoor Lighting Zone (OLZ) t	that is documented on page 1 of NRCC-LYO-01-E to	calculate the specifi	c wattage alla	wances.				
PERAPPLICATION PERUNIT LENGTH PERHADISCAPE AREA PERSPECIFIC AREA	C-1. WATTAGE ALLOWANCE P	ER APPLICATION - Table 140.7-B							
from Section C-1 (SALES FRONTAGE) (DRNAMENTAL LIGHTING) from Section C-4.	D Available only for qualifying local	tions, which include Building Entrances or Exits; Prin	many Entrances to Se	nior Care Faci	lities, Police	e Stations,	Hospitals, Fin	e Stations	and
0 + 0 + 0 + D + 2. 8		e Up Windows; Vehicle Service Station Uncovered I is used per location, use multiple rows for that loca		Machine Light	ing				
Sum Tetal ALLOWED Outdoor Lighting Wettage Ladd nows 1 and 2)  3. 2200.65	01 02	0) 04 05	06	67	0	08	199		30
GENERAL HARDSCAPE LIGHTING POWER ALLOWANCE FROM TABLE 140.7-A		LIOTTED WATTS Writings	DES	IIGN WATTS	_	-		1000	
Area Workinge Allowance (AWA) Linear Wattage Allowance (LWA) Allowance (IWA) Lighting Allowance	Name of Location Number of for Which Allowance Qualifying	Allowance per Allotted Luminaire Qualifying Watta Code or		Lance	eine War	taper 3	Design Watts		ed Watts r of 04 or
0E 03 03 04 05 06 07 06 09	Is Claimed Locations	Location (02 x 03) Symbol L	urrinaire Description	Quant	By Sumf	anaire .	\$67 x 083		29)
Name of Area (Suringend ANA Per Sun Suringend ANA Per Sun		0 0			$\pm$	$\pm$	0		
EXTERIOR COURT NAIS 22050 0.04 882 2299 0.35 804.65 520 2206.65		0		_	_	$\rightarrow$	0	-	_
0 0 0				fum total	i allowerez p	per applicati	Jon on this site	e :	0
	C-2. WATTAGE ALLOWANCE P	ER UNIT LENGTH (Sales Frontage) from Ta	ble 140.7-B						-
	<ol> <li>If more than one luminaire type in</li> </ol>	sused per location, use multiple rows for that loca							
	01 02	03 04 05 ALIGITED WATTS	06	SIGN WATTS		08:	.09	-	10
	Name of Location	Wattage Allotted Currowave							et With
	for Which Allowance Unear Feet of is Claimed Sales Frentage	f Allowance per Watts Code or e Linear Fect (02 x 03) Symbol	Luminaire Description	Quart	tify Lore	Hispor I Viname	Design Watts (07 x 00)		r of 04 or 79)
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1004.   236.69	1			Sum total at	lawares for	sales fronta	age on the site;	9	d
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1 THE PROPERTY OF THE PROPERTY									
	STATE OF CALIFORNIA								0
	OUTDOOR LIGHTING POV	VER ALLOWANCES				CALVOR	MAN ENERGY CO	Charleson	-
	CERTIFICATE OF COMPLIANCE Outdoor Lighting Power Allowances			- 5.		1713-0-			(TO-03-E pe 4 of 4)
	PACIFIC VILLA ALHAMBR	A-LOT4		-	3/1/2	2017		1.75	23,0134
	DOCUMENTATION AUTHOR'S DECLAR	NATION STATEMENT							$\neg$
	<ol> <li>I sartify that this Certificate of Co Decimentation Author Name: Jessica Yoeh</li> </ol>	mpliance documentation is accurate and complete.	Disconstruction, Kulher Sp	gratum: -	faiffur	il.			-
	CEG Engineering, Inc.		Squature Date: 3/1/201		U g				
	1543 W. Garvey Ave. North, Su	Re 210	158 Sartificania stando	utije (f againskis)					
	Cha/tomiche West Covina, CA 91790		Flure 626-308-1268						
	RESPONSIBLE PERSON'S DECLARATIO I santify the following under penulty or								-
	The information provided on this     I am eligible under Division 3 of t	f perjury, under the laws of the State of California. Coefficate of Compilance is true and correct. the Business and Professions Code to accept responsibilit	y for the building desig	pn or system de	sign identifie	d on this Ca	artificate of Co.	empliance:	
	(responsible designer).  3. The energy features and perform	sance specifications, materials, components, and manufa	ctured devices for the	building design	or system in	esign identif	fied on this Car	rificate of	
		inements of Title 24, Part 1 and Part 6 of the California C system design features identified on this Certificate of Co Sons, plans and specifications submitted to the enforcem							á I
	<ol> <li>I will ensure that a completed sig</li> </ol>	med copy of this Certificate of Compliance shall be made	avoidable with the built	ding permit(s)	issued for the	e building, as	and made avails	lable to the	. I
	enforcement agency for all applic builder provides to the building of	cubile inspections. I understand that a completed signed :	copy of this Certificate	of Compliance	is required to	a be include	d with the doc	curvertation	ithe
	Answeride Designer Name: Jessica Yuarh		Annually began by	to for	igneh				
	Campany CEG Engineering, Inc.		Description 3/3/2017						
	1543 W. Garvey Ave. North, Su Chultonicille West Covins. CA 91790	ite 210	Floor 626-308-1268						-
	West Covina, CA 91790		626-006-1268						

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

OUTDOOR LIGHTING CONTROLS

	NACC-LTO-0
Outdoor Lighting Controls	(Page 3 c)
PACIFIC VILLA ACHAMBRA - LOT 4	a/1/2017
DOCUMENTATION AUTHOR'S DECLARATION STATEMEN	
1. Learning that this Certificate of Compliance document	
Decemenation Author Harrier Securica Yuesh	Immoration have been fairful
CIG Engineering, Inc.	Square line: 3/1/2017
1545 W. Garvey Ave. North, Suite 230	EEA ComPliation (British plan (E Application)
Distribute The West Covins, CA 91790	Final 826-308-1268
RESPONSIBLE PERSON'S DECLARATION STATEMENT	**
I certify the following under penalty of perjury, under the 1. The information provided on this Certificate of Comp. 2. I am eligible under Division 3 of the Business and Pro	
I certify the following under pushing of pochys, under the Jan The information provided on the Circlet of Corni- Tics. The information provided on the Circlet of Corni- Tics are slightly under Division 5 of the Business and Pro- incipalities designers.  3. The energy features and porformance specifications. Compliance control in the respirators of 15to 246.  4. The hulding design features or system design features of documents, worksets, citabilities up plans and spec- difications. The complete of the provided specific or con- processing specific properties of the provided specific or professional specific properties.	aleand in two and convext.  Seeing of the second convext empreciability for the building design or system design interested on this Destificate of Complaints extension Code to accept empreciate of the second code of the se
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OUTDOOR LIGHTING CONTROLS

OUTDOOR LIGHTING POWER ALLOWANCES (1) (Page 3 of 4) C-3. WATTAGE ALLOWANCE PER SQUARE FOOT OF HARDSCAPE AREA (Ornamental Lighting) - Table 140.7-8 Section 130.0(c), and shall be post-top luminaires, lanterns, pendant lum C-4. WATTAGE ALLOWANCE PER SQUARE FOOT OF SPECIFIC AREA - Table 140.7-B

01	0.7	03	. 04	05	06	07	08	09	10
	ALI	OTTED WATTS			DESIGN	WATTS			
Name of Location for Which Allowance is Claimed	Fluminated Area of Application	Wrattage Allowance per Square Foot	Allotted Watts (02 x 03)	Code or Symbol	Luminaire Description	Laminaire Quantity	Watts per Luminaine	Design Watts (07 x 06)	Allowed Watts (smaller of 04 or 08
			0						
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- Allowances for Building Facades; Outdoor Sales Lots; Vehicle Service Station H

CA Building Energy Efficiency Standards - 2016 Noovesidential Compliance



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W. VALLEY BLVD., 9 626-571-8000 O

C E G Engineering Inc. Consultanting Engineers Group JOB #: E17039

E-4.4 1543 W. Garvey Ave. North, Suite #210, West Covina, CA 91790 tel: 626,308.1268 fax: 626,308.1216 ceg@cegmep.com

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est Covina, CA 91790

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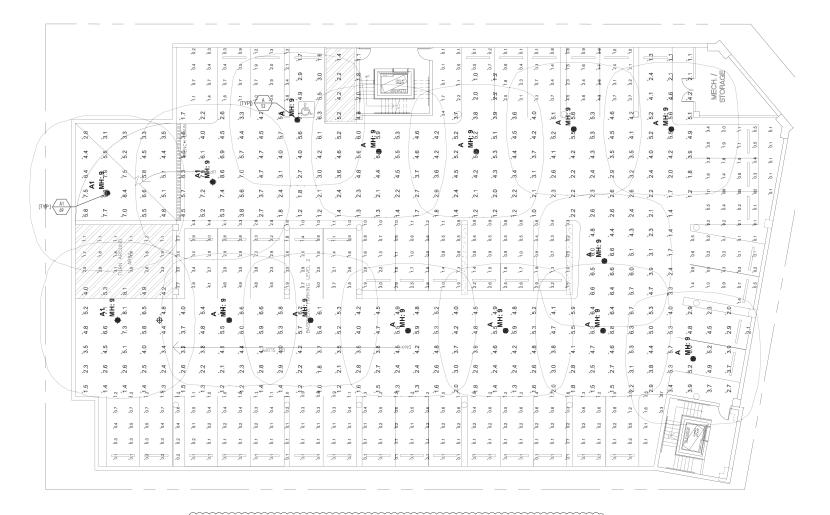
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CALCULATION SUMMARY							
LABEL	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN	HEIGHT OF CALC POINTS
EGRESS PATH - BASEMENT 1	Fc	4.02	11.4	1.0	4.02	11.40	0
EGRESS PATH - BASEMENT 2	Fc	3.93	9.3	1.0	3.93	9.30	0
PARKING STALLS - BASEMENT 1	Fc	1.34	5.9	0.1	13.40	59.00	0
PARKING STALLS - BASEMENT 2	Fc	1.14	4.9	0.1	11.40	49.00	

LUMINAIRE SCHEDULE



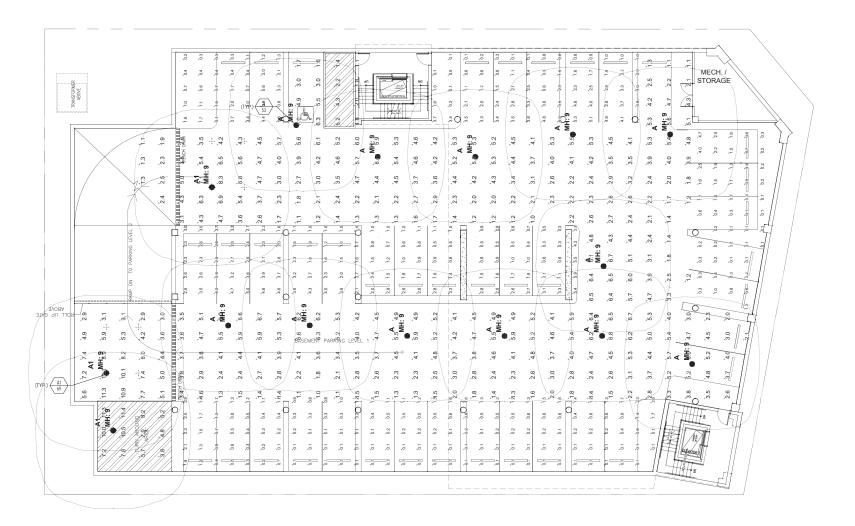


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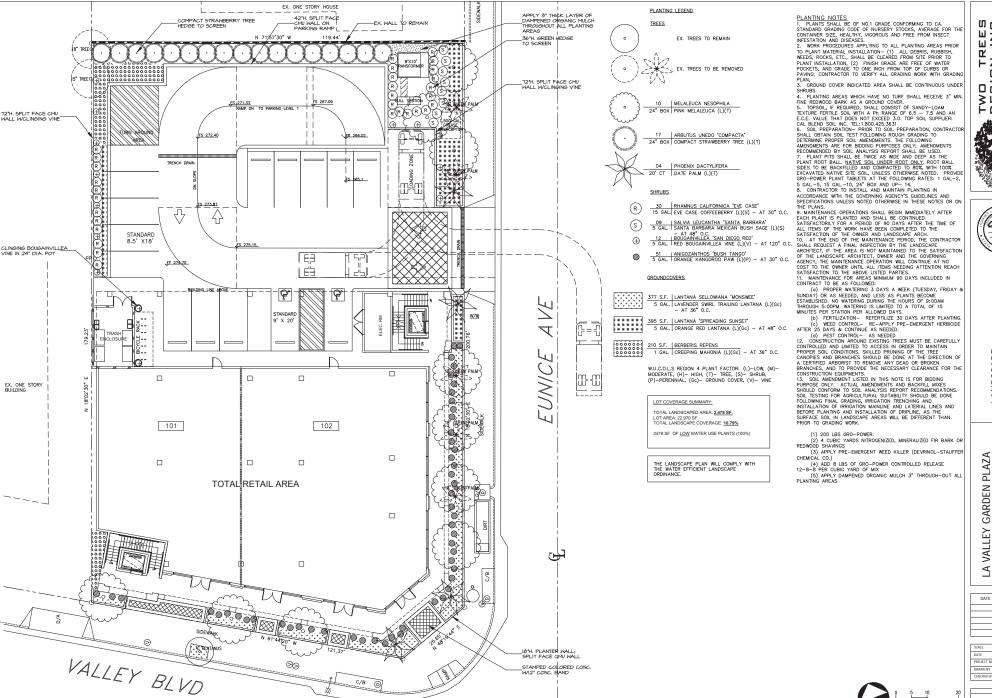
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CALCULATION SUMMARY							
LABEL	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN	HEIGHT OF CALC POINTS
EGRESS PATH - BASEMENT 1	FC	4.02	11.4	1.0	4.02	11.40	0
EGRESS PATH - BASEMENT 2	FC	3.93	9.3	1.0	3.93	9.30	
PARKING STALLS - BASEMENT 1	FC	1.34	5.9	D.1	13.40	59.00	0
PARKING STALLS - BASEMENT 2	FC	1.14	4.9	D.1	11.40	49.00	0







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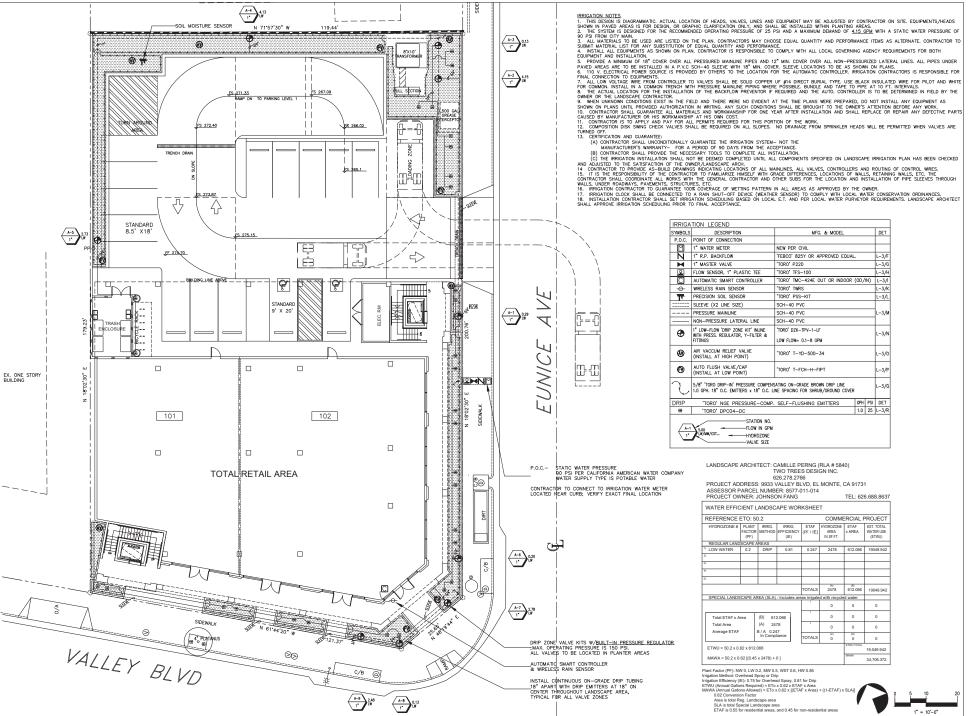
LANDSCAPE PLANTING PLAN

GARDEN VALLEY 9933 VALLEY BLV EL MONTE, CA. 9' ۲

DATE	REVISIONS
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SCALE	AS SHOWN
DATE	03-16-2018
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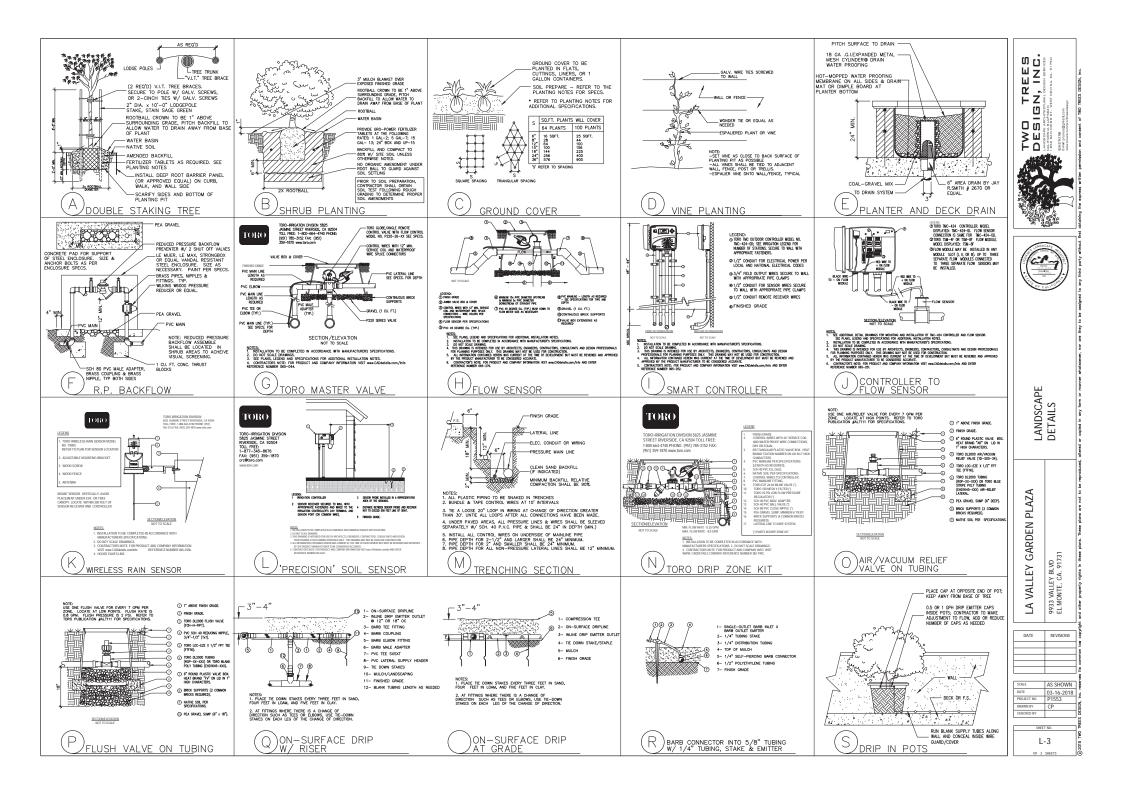
LANDSCAPE IRRIGATION PLAN

VALLEY GARDEN PLAZA

LA VALLEY
9933 VALLEY BLV
61 MONTE, CA. 9.

CALE	AS SHOWN
ATE	03-16-2018
ROJECT NO.	P1553
RAWN BY	CP
HECKED BY	

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### O. ADMINISTRATIVE REQUIREMENTS:

- A) THE PERSON WITH OUTPUL RESPONSEDLY FOR CONSTRUCTION OR THE PRESON RESPONSED FOR THE INSTILLATION OF PEDIATRIT FIRSTERS, MATTERLS, COMPONENTS, OR MANUFACTION DIONOS SHALL PORT, OR MAKE ANALEE WITH THE BULDION FERMIT(S) ISSUED FOR THE BULDION, THE REQUIRED RESTALATION CERTIFICATE(S) OF FEATURES, METRICS, COMPONENTS, ON MANUFACTURED DEVICES REQUILED BY THE APPLIANCE FEFTOEDION REQUILATIONS OR PART 6. SUCH INSTALATION CERTIFICATE(S) SHALL BE MORE ANALIBLE TO THE ENTERCEBUTH ARRIVEY OF ALL AMERICANE FOR SHALL PROPERRY ENTERCEDION. THESE CERTIFICATES SHALL:
- IDENTIFY FEATURES, MATERIALS, COMPONENTS, OR MANUFACTURED DEVICES REQUIRED TO VERIFY COMPLIANCE WITH THE APPLIANCE EFFICIENCY REGULATIONS AND PART 6.
- II) INCLUDE A STATEMENT INDICATING THAT THE FEATURES, MATERIALS, COMPONENTS, OR MANUFACTURED DEVISE CONFORM TO THE APPLIANCE EFFICIENCY REGULATIONS AND PART 6 AND THE REQUIREMENTS FOR SUCH FEAT MATERIALS, COMPONENTS, OR MANUFACTURED DEVICES GIVEN IN THE PLANS AND SPECIFICATIONS APPROVED B THE LOCAL DEPORCEMENT ABOUT.
- THE LOCAL ENFORCEMENT PROFITS.

  IN STATE THE NUMBER OF THE BUILDING PERMIT UNDER WHICH THE CONSTRUCTION OR INSTALLATION WAS PREFERRIEFD.

  SEC. 10-10.3 (a) 3 A
- 8) AFTER INSTALLING WALL, CELING, OR FLOOR INSULATION, THE INSTALLER SHALL MAKE AMALBLE TO THE PROFECIENT ACENCY OR POST IN A CONSPICUOUS LOCATION IN THE BRUDDING A CERTIFICATE SCHEED BY THE INSTALLER STATEM THAT THE INSTALTANTON IS CONSISTENT WITH THE PLANS AND SPECIFICATION SESSIBED IN SEC. 10–103 (A) 2. THE CERTIFICATE SHALL ALSO STATE THE MANUFACTURER'S NAME, MATERIAL IDINTIFICATION, AND THE INSTALLED R.-VALUE. SEC. 10-103 (a) 4
- AND ITE. RISINGLED M, "MULK." SEC. 10-103 (0).

  SEC. 10-103 (0).
- SUBMITTED FOR PLAN APPROVAL

  D) THE BUILDER SHALL PROVIDE THE BUILDING OWNER OR THE PERSON(S) RESPONSIBLE FOR BUILDING MAINTENANCE (IN CASE OF MULTI-TENANT OR CENTRALLY OPERATED BUILDINGS) AT OCCUPANCY THE FOLLOWING: OPERATING INFORMATION: THE APPROPRIATE CERTIFICATE(S) OF COMPLIANCE AND A LIST OF THE FEATURES, MATERIALS, COMPONENTS, AND MECHANICAL DEVICES INSTALLED IN THE BUILDING AND INSTRUCTIONS ON HOW TO
- OPERATE THEM EFFICIENTLY.

  2) MAINTENANCE INFORMATION: REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY STATED AND INCORPORATED ON A READILY ACCESSIBLE LABEL. THE LABEL MAY BE LIMITED TO IDENTIFYING THE OPERATION AND
- MAINTENANCE, MANUAL.

  3) VENTILATION INFORMATION: A DESCRIPTION OF THE QUANTITIES OF OUTDOOR AND RECIRCULATED AIR THAT THE VENTILATION SYSTEMS ARE DESIGNED TO PROVIDE TO EACH AREA.

- 11. MANAGORY MESCHERS.

  3) MANIFACTURED HESTISTATION PRODUCTS AND EXTERIOR DOORS SHALL:

  1) HAVE A TEMPORARY LAREL METING THE REQUIREMENTS OF SEC. 10-111 (A) .1, NOT TO BE REMOVED BEFORE
  MORPECTION BY THE DEPROGREMENT AGENCY, LISTING THE CENTRED U-PHOTOR AND SHOC, AND CERTIFINED THAT THE
  ARE LEXANCE REQUIREMENTS OF SEC. 116 (A) 1 ARE LET FOR EACH PRODUCT LINE; AND

  2) HAVE A PERMANNI LAREL METING THE REQUIREMENTS OF SEC. 10-111 (A) 2 F THE PRODUCT IS RATED USING
- NPRC PROCEDURES.

  SEC. 116 (6)

  B) FIELD-FARRICATED EMERITATION AND FIELD-FARRICATED EXTERIOR DOORS SHALL BE CULLUED BETWEEN THE
  FRESTRATION PRODUCTS OR EXTERIOR DOOR AND THE BUILDING, AND SHALL BE WEATHER STREPPED. EXCEPTION.
  UNFRAMED CLASS DOORS AND FIRE DOORS.
- C) JOINTS AND OTHER OPENINGS IN THE BUILDING ENELOPE THAT ARE POTENTIAL SOURCES OF AIR LEAKAGE SHALL BE CALLED, CASKETED, WEATHER STRIPPED, OR OTHERWISE SEALED TO LIMIT INFILITATION AND EXPLITATION.
- D) THE OPAQUE PORTIONS OF FRAMED DEMISING WALLS IN NONRESIDENTIAL BUILDINGS SHALL BE INSULATED WITH AN INSTALLED R-VALUE OF NO LESS THAN R 13 BETWEEN FRAMING MEMBERS.

  SEC. 118 (I)
- E) ALL INSULATING MATERIAL SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF THE CBC.
- F) ANY ROOFING PRODUCT USED AS A COOL ROOF SHALL BE CERTIFIED AND LABELED IN ACCORDANCE WITH THE REQUIREMENTS OF SEC. 10-113 BY THE COOL ROOF RATING COUNCIL (CRRC) AND MEET CONDITIONS SET IN SEC. 118 (f).

  SEC. 118 (f).
- REQUIREMENTS OF SEC. 10-11.5 BY THE COOL ROOF RATING COUNCIL (CRRC) AND MEET COMMINIONS SET IN SEC. 118 (I).

  (I) HEAT PAINES WITH SUPPLEMENTARY LECTRIC RESISTANCE HEATERS SHALL HAVE CONTROLS:

  (I) THAT PRESENT SUPPLEMENTARY HEATER OPERATION WHEN THE HEATING LONG OWN BE MEET BY THE HEAT PUMP ALONE; AND

  2) IN WHICH THE CUT—ON TEMPERATURE FOR COMPRESSION HEATING IS HIGHER THAN THE CUT—ON TEMPERATURE FOR SUPPLEMENTARY HEATING, AND THE CUT—OF TEMPERATURE FOR SUPPLEMENTARY HEATING, AND THE CUT—OF TEMPERATURE FOR SUPPLEMENTARY HEATING, AND THE CUT—OF TEMPERATURE FOR SUPPLEMENTARY HEATING, AND THE SHAPPING FOR SUPPLEMENTARY HEATING. AND THE SHAPPING FOR SUPPLEMENTARY HEATING, AND THE SHAPPING FOR SUPPLEMENTARY HEATING, AND THE SHAPPING FOR SUPPLEMENTARY HEATING, AND THE SHAPPING FOR SHAPPING F
- BUILDING IS NORMALLY OCCUPIED.

  SEC. 121 (
  ) HOTEL/MORE CUEST ROOM THERMOSTATS SHALL HAVE NUMERIC TEMPERATURE SETPOINTS IN DEGREES F, EACH SETPOINT STOPS ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, TO RESTRICT OVERHEATING AND OVER-COOLING.
- SEC. 122 (C)

  J. ALL ARD STREETING NISTRAD DUTTS AND FLENANS: INCLUDING, BUT NOT LIMITED TO, BRILDING CANTES,
  J. ALL ARD STREETING NISTRAD TO STREET AND FLENANCE, STREETING TO THE STREETING THE STREETING TO THE STREETING THE THE FOLIOTING REQUIREMENTS AS PROJUZIES.
- a) EACH SPACE CONDITIONING ZONE SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL THAT RESPONDS TO TEMPERATURE WITHIN THE ZONE AND MEETS THE APPLICABLE REQUIREMENTS OF SECTION(b). b) EACH THERMOSTATIC CONTROL REQUIRED BY SECTION (A) SHALL BE CAPABLE OF BEING SET LOCALLY OR REMOTELY BY ADJUSTMENT OR SELECTION OF SENSORS TO CONTROL:
- 1) COMFORT HEATING DOWN TO 55°F OR LOWER.
- COMFORT COOLING UP TO 85°F OR HIGHER.
   BOTH HATING AND COOLING, THE TRANSITION CONTROLS SHALL BE CAPABLE OF PROVIDING A TEMPERATURE RANGE OR EDG AND OF AT LESST 5°F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING ENERGY TO THE ZONE IS SHUT OFF OR REDUCED TO A MINIMUM. L) OUTDOOR AIR SUPPLY AND EXHAUST EQUIPMENT SHALL BE INSTALLED WITH DAMPERS THAT AUTOMATICALLY CLOSE
- M) DEMAND CONTROL VENTILATION DEVICES (CO2 SENSORS) SHALL BE INSTALLED IN ACCORDANCE WITH SEC. 121(C) 4
- N) EACH SPACE-CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT COMPLY WITH ITEMS 1 AND 2 BELOW:
- BELOW:

  1) ARE CAPABLE OF AUTOMATICALLY SHUTTING OFF THE SYSTEM DURING PERIODS OF NON-USE AND SHALL HAVE:
- 1) ARE OPHIBE OF AUTOMATICALLY SHITTING OF THE SYSTEM DURNO FERIODS OF NON-LISE AND SHALL HAVE.

  3) AN AUTOMATIC HER SHITIOL CONTINUE, DEVICE COMPLYING WIN SEC. 119(2), WHAT AN ACCESSIBLE MANUAL

  OFFICIAL SHALL AUGUST CONTINUE OF THE SYSTEM FOR UP TO 4 HOURS, OR

  3) A FOUR-HOUR THATE THAT ON HE WANNIALY OFFICIAL THE SYSTEM OF THE SYSTEM

- CHURCHES, AND THEATER'S EQUIPPED WITH 7-DAY PROGRAMMABLE TIMERS.

  2) AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN:

  3) A SETBACK HEATING THERMOSTAT SETPOINT, IF THE SYSTEM PROVIDES MECHANICAL HEATING; AND EXCEPTION: AREA WITH THE MESISIN MINIER QUIDON TEMPERATURE OF REARTER THAN 32F.
- b) A SETUP COOLING THERMOSTAT SETPOINT, IF THE SYSTEM PROVIDES MECHANICAL COOLING. EXCEPTION: AREA WITH THE DESIGN SUMMER OUTDOOR TEMPERATURE OF LESS THAN 100°F. EXCEPTION: SYSTEMS SERVING HOTEL/MOTEL GUEST ROOMS, IF THEY HAVE A READILY ACCESSIBLE MANUAL
- 0) THE PIPING FOR ALL SPACE CONDITIONING AND SERVICE WATER HEATING SYSTEMS SHALL BE INSULATED IN ACCORDANCE WITH TABLE 123-A. SEC. 123
- P) WAITER HEATING SYSTEMS SHALL BE EQUIPPED WITH AUTOMATIC TEMPERATURE CONTROLS CAPABLE OF ADJUSTMENT FROM THE LOWEST TO THE HIGHEST ACCEPTABLE TEMPERATURE SETTINGS FOR THE INTENDED USE AS LISTED IN TABLE 2, CHAPTER 9 OF THE ASTIME HANDBOOK, HIMO APPLICATIONS VOLUME. Q) SERVICE WATER HEATING SYSTEMS AND EQUIPMENT SHALL MEET THE APPLICABLE REQUIREMENTS OF THE APPLIANCE
- EFFICIENCY REGULATIONS AS REQUIRED BY SEC. 111. R) SERVICE HOT WATER SYSTEMS WITH CIRCULATING PUMPS OR WITH ELECTRICAL HEAT TRACE SYSTEMS SHALL BE CAPABLE OF AUTOMATICALLY TURNING OFF THE SYSTEM.
  SEC. 113 (
- S) LAVATORIES IN PUBLIC RESTROOMS SHALL HAVE CONTROLS THAT LIMIT THE WATER SUPPLY TEMPERATURE TO 110°F.

## NOTES

1. SUPPLY AIR, RETURN AIR, AND OUTSIDE AIR FOR HEATING, COOLING, OR EVAPORATIVE COOLING SYSTEMS SHALL CONDUCTED THROUGH DUTC SYSTEMS CONSTRUCTED OF METAL AS SET FORTH IN THE ANSIISMACIAN GOOG-2006 HAVIC DUCT CONSTRUCTION STANDARDS — METAL AND FLENBLE, OR ANOTHER

. ROOF MOUNTED EQUIPMENT SHALL BE LABELED AS TO THE PACE IT SERVES.

3. OUTDOOR AIR INTAKE OPENINGS SHALL BE COVERED WITH A SCREEN HAVING NOT LESS THAN 1/4-INCH OPENINGS AND NOT ORE THAN 1/2-INCH OPENINGS.

. Garage ventilation exhaust air inlets shall be installed 0 that the highest elevation of the exhaust air inlet is 0 greater than 12 inches below the lowest ceiling VEL. (CMC 403.9.1 .2)

- 5. GARAGE VENTILATION EXHAUST AIR INLETS SHALL BE SPACED TO BE WITHIN 50' FROM ALL PORTIONS OF THE GARAGE. (CMC 403.9.1.2)
- 6. DUCT SYSTEMS USED WITH BLOWER TYPE EQUIPMENT WHICH ARE PORTIONS OF A HEATING, COOLING, ABSORPTION, EMPORATIVE COOLING OR OUTDOOR AIR VENTILATION SYSTEM SHALL BE SIZED IN ACCORDINGE WITH CHAPTER 17 OF THE CALIFORNIA MECHANICAL CODE.
- 8. SUPPLY AIR, RETURN AIR, AND OUTSIDE AIR FOR HEATING, B. SUPPLY AIR, RELIDIA MR, AND UDISIDE AIR FOR HEALING, COOLING, OR EMPORATIVE COULING SYSTEMS SHALL BE CONDUCTED THROUGH DUCT SYSTEMS CONSTRUCTED OF METAL AS SET FORTH IN THE ANSISTEMON GOR-ZOOD HAVE DUCT CONSTRUCTION STANDARDS — METAL AND FLEXIBLE, OR ANOTHER APPROVED DUCT CONSTRUCTION STANDARD.

## **EQUIPMENT SCHEDULE**

SPLIT HEAT PUMP SYSTEMS



CARRIER MODEL: 25HCC560 SPLIT HEAT PUMP COOLING: 57,500 BTUH (TC), 44,750 BTUH (SC) HEATING: 57,000 BTUH SEER=15, EER=12.5, HSPF=8.5 SHP ELECT: MCA=34.2, 50A BREAKER, 230V/1PH/60HZ WT: 294 LBS WI: 294 LBS LIQUID LINE(OD) = 7/8" (INSULATE LIQUID LINE)
VAPOR LINE(OD) = 1-1/8"

CARRIER MODEL 48HCLA06, 5 TON A/C 60,400 BTU/HR TOTAL COOLING, 48,000 BTU/HR SENSIBLE COOLING CEDB = 95°F EWB = 67°F GAS HEATING INPUT/OUTPUT CAPACITY: 60,000 BTUH/50,000 BTUH, AFUE=81% SEER = 15.2, EER= 12.45, 2000 CFM SUPPLY AIR @ 0.6" ESP R410A REFRIGERANT 208 VOLTS, 3 PHASE, 60 CYCLES FLA = 22.5A, 40A BREAKER FACTORY ECONOMIZER W/AUTOMATIC FAULT DETECTION AND DIAGNOSTICS, BAROMETRIC RELIEF AIR DAMPER. FACTORY CURB, FILTER RACK W/MERV 8 FILTERS & OUTSIDE AIR HOOD. PROVIDE CO2 DEMAND CONTROLLED VENTILATION. UNIT TOTAL WT. = 600 LBS. UNIT HEIGHT (INCL. 8" CURB) = 50"

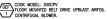


SPLIT A/C (COOLING ONLY) OUTDOOR CONDENSING UNIT CARRIER MODEL: 38MFC009 COOLING CAPACITY: 9,000 BTUH, 15 SEER, 10EER ELECT: MCA=19, 30A BREAKER, 120V/1PH/60HZ R410A REFRIGERANT REFRIGERANT LINE(LIQUID): 1/4", (VAPOR): 3/8" WT: 59 LBS



INDOOR WALL-MOUNTED UNIT CARRIER MODEL:40MFC009 192 CFM, 0.02HP 0.02 HP MOTOR. POWER FROM OUTDOOR UNIT. WT: 16 LBS

PARKING GARAGE VENTILATION FANS



CFM =14,000 , TSP =1.5" WG, FAN RPM =942 W/ISOLATION RAILS, HOUSED SPRING ISOLATORS, L10 200K BEARINGS, SPIRAL INLET GUARD, BELT GUARD, 7.5 HP, FLA=24.2, 208V/3#/60HZ, WT.=863 LBS FAN CONTROLLED BY CO SENSING SYSTEM.

GEF COOK MODEL: 300 CPV
CENTRIFUGAL UTILITY FAN, CLOCKWISE UP-BLAST CFM=13,000, SP=1.5\*WG, FAN RPM=902, PROVIDE INLET GUARD, ISOLATION RAIL, LOOR MOUNTED SPRING ISOLATORS: SF-220 SET(4), 7.5 HP, FLA=24.2, 208V/3ø/60HZ, WT,=863 LBS NOTE: FAN CONTROLLED BY TIME CLOCK AND RUN CONTINUALLY

# GARAGE VENTILATION CALCULATION

RASEMENT PARKING 1

ACCORDING TO 403.7.2.2 OF 2016 CMC.

ACCURDING TO 403-72.2 OF 2016 CMC.
PARKING STAIL C. ACCURDING VIOLENCE OF ACCURDING VEHICLES. 40X2.5%=1, 1 OPERATING VEHICLE.
EVHAUST FAR IF 14,000X1=14,000 CPM
EVHAUST FAR IF 14,000X1=16,000 CPM
CARBON MONORDE SENSING SYSTEM.

BASEMENT PARKING 2 ACCORDING TO 403.7 OF 2016 CMC. PARKING AREA: 17,215 SQFT EXHAUST RATE: 0.75X17.215=12.912 CFM. EXHAUST FAN GEF-2(13,000 CFM) CONTROLLED BY TIME CLOCK AND RUN CONTINUALLY IN THE BUSINESS HOURS.

## GENERAL NOTES

ALL WORKS SHOULD COMPLY WITH CMC 2016 AND 2016

- POWER WIRING, CONDUIT, SWITCHES AND TIME CLOCKS SHAL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. 2. LOW VOLTAGE WIRE AND CONDUIT SHALL BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR. FINAL CONNECTIONS BY AIR CONDITIONING CONTRACTOR.

  3. CONDENSATE DRAIN PIPPING (COPPER OR CALV.). TO AN
- APPROVED RECEPTOR BY PLUMBING CONTRACTOR. CONDENSA
- DRAIN TO BE TRAPPED.

  4. GENERAL CONTRACTOR SHALL FURNISH AND/OR INSTALL CUTTING, PATCHING, FRAMING, ROPING, PAINTING, EQUIPMENT SCREENING, CURBS, OR PLATFORMS WITH THE REQUIREMENT OF THE AIR CONDITIONING SYSTEM.
- 5. EQUIPMENT, INSTALLATION AND OPERATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES.
- 6. ALL A/C SYSTEMS SHALL BE TESTED AND BALANCED IN ACCORDANCE WITH AMBC GUIDELINES. THE T & B CONTRACTOS SHALL NOTIFY MECH. CONTRACTOR OF MAY DEFICIENCY IN THE SYSTEMS AND HAVE THEM CORRECTED PRIOR TO FINAL START
- TOILET EXHAUST DUCTS SHALL BE MADE OUT OF GALV. STEEL 8. LISTED FIRE DAMPERS AND SMOKE DAMPERS ARE REQUIRED T BE INSTALLED AT ALL DUCT PENETRATIONS THROUGH FIRE RATED SHAFTS.
- RATED SHAFTS.

  9. PROVIDE SHATION OF HVAC SYSTEM SERVING SMOKE DAMPERS OR COMBINATION SMOKE—FIRE DAMPERS WHEN AUTOMATIC ACTIVATION OF DAMPER OCCURS, (SMI) EXCEPTION HVAC SYSTEMS SERVING A SIGNE EVACUATION SYSTEM OR AN ENCLOSED SPACE HAVING A COMMON ATMOSPHERE WHERE OPENIONS ARE REQUIRED TO BE PROTECTED.

10. MATERIALS EXPOSED WITHIN DUCTS OR PLENING SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAWE-SPREAD INDEX NOT GREATE THAN THEITY-PIX (25) AND A SUNCE DEVELOPED INDEX NOT GREATES THAN THEITY-PIX (25) AND A SUNCE DEVELOPED INDEX NOT GREATES THAN FIFTY (50) WHEN TESTED AS A COMPOSITE PER APPLICABLE TESTING STANDARD.

11. WHEN FIRE DETECTION OR ALARM SYSTEMS ARE PROVIDED FOR THE BUILDING, ANY REQUIRED SMOKE DETECTORS SHALL BE SUPERVISED BY SUCH SYSTEMS AND SHALL BE CAPABLE OF ACTIVATING THE FIRE ALA

12. ALL APPLIANCE AND PLUMBING VENTS AND THE DISCHARGE OUTLET OF EDMANST FANS SHALL BE AT LEAST TEN (10) FEET IN A HORIZONTA-DIRECTION, OR THREE (3) FEET ABOVE THE OUTSIDE-AIR INTAKES FOR HAVIC UNITS.

13. ALL APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN PLACE PER BUILDING CODE REQUIREMENTS OR APPLICABLE MANUFACTURER INSTALLATION REQUIREMENTS. 14. ROOF MOUNTED EQUIPMENT SHALL BE LABELED AS TO THE SPACE STRUCK

15. WHOLE HOUSE EXHAUST FANS INSTALLED SHALL HAVE INSULATED LOUVERS OR COVERS (MINIMUM R.2) WHICH CLOSE WHEN THE FAN IS OF

16. ALL MECHANICAL EXHAUST FANS IN ROOMS WITH A BATHTUB OR SHOWER SHALL COMPLY WITH THE FOLLOWING:
A. FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING. TERMINATE COTSIDE THE BUILDING.

B. FANS MUST BE CONTROLLED BY A READILY ACCESSIBLE HUMDISTAT UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION.

17. AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON TO CONSTRUCTION SITE AND UNIT, FANAL STARTUP OF THE HEATING AND COURNE EQUIPMENT, ALL DUCT AND OTHER RELATED AND DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, FLASTIC, SHEET METAL, OR OTHER ACCEPTABLE NETHOODS TO REDUCE THE AMOUNT OF DUST OF DERRIS WHICH MAY COLLECT IN THE STSTEM. CODE 3.50-43.

# TITLE 24 NOTES

- TITLE 24 FOR AC ENERGY CONSERVATION
- ALL DUCTWORK, INCLUDING INSULATION, SHALL CONFORM TO CALIFORNIA ADMINISTRATIVE CODE, 2016 TITLE 24, AND THE CALC LOW VELOCITY DUCT CONSTRUCTION STANDARDS, LATEST 2016 EDITION.
- ALL EXHAUST FANS TO BE FURNISHED WITH BACKDRAFT DAMPERS.
- DAMPERS.
  ALL AC UNITS SHALL BE PROVIDED WITH A THERMOSTAT FOR AUTOMATIC REGULATION OF TEMPERATURE AND A FOUR HOUR OVERRIDE TIMER. THERMOSTAT AND TIMER SHALL BE READILY ACCESSIBLE AND BE MANUALLY ADJUSTABLE.
- NATIONALLY PRODUCTION OF THE STATE OF BEING SET TO MAINTAIN SPACE TEMPERATURE SET POINTS FROM 55 DEGREES F, TO 85 DEGREES F, AND SHALL BE CAPABLE OF OPERATING THE SYSTEM HEATING AND COOLING SEQUENCE.
- AND COOLING SEQUENCE.

  ALL THERMOSTATS SHALL BE ADJUSTABLE TO PROVIDE A TEMPERATURE RANGE OF UP TO 5 DEGREES F. RETWEEN FULL HEARING AND FULL FOR THE STATE OF TH
- TRANSVERSE JOINTS FOR ALL AIR SUPPLY DUCTS
  INSTALLED WHERE AIR LEAKAGE WOULD BE NON-INSTALLED WHERE AIR LEARNER WOULD BE RONBENEFICIAL TO THE OCCUPIED AREA TEMPERATURE
  REQUIREMENTS SHALL BE SEALED WITH APPROVED
  MASTIC OR TAPE.
- A MAINTENANCE LABEL SHALL BE AFFIXED TO MECHANICAL EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE OWNERS USE.

# DUCT MOUNTED SMOKE DETECTOR REQUIREMENT

ALL HAZ UNITS SYSTEMS WITH 2000 CPM OR MORE OR SERVIN A COMMON ARE SPACE MUST BE INTERCONNECTED TO SHIFT DON MAREDURITY UPON ANAMY CONDITION FROM DUCT DETECTION (OR FIRE ALAMAN SYSTEM MERL USING AREA SMORE DETECTIONS (OR FIRE ALAMAN SYSTEM MERL USING AREA SMORE DETECTIONS OR ANY OTHER SYSTEMS. ALL CONTROL, BELLOS USED FOR SHIF DOWN MUST BE CALIFORMS ATATE FIRE MARSHAL USITED FOR MANUFACTURE: ANE PRODUCTS & CONTROLS NO. MANUFACTURE: ANE PRODUCTS & CONTROLS NO. MANUFACTURE: ANE PRODUCTS & CONTROLS NO. TEL: (888) 332-2241

# VENTILATION AND PURGE CYCLE

REQUIRED BY CEC ALL VENTILATION SHALL MEET CEC GUIDELINES. A/C UNIT SHALL START 1 HR. PRIOR TO OCCUPAN AND CYCLE TO PROVIDE PURGE CYCLE.

		L	.EGEND
SYM	(BOL I SINGLE	ABBREVI- ATION	DESCRIPTION
	— SA —	SA	SUPPLY AIR DUCT
⇉	-RA-	RA	RETURN AIR DUCT
}`	— EAD —	EAD	EXHAUST AIR DUCT
	— 0A —	OA	OUTSIDE AIR DUCT
田			TRANSITION - RECTANGULAR TO RECT- ANGULAR
Ä	-		TRANSITION - RECTANGULAR TO ROUND
7			ELBOW W/TURNING VANE
$\equiv$	6X6L	(L)	LINED DUCT, DUCT SIZE WITH L FOR SINGLE LINE
12	1		RISE IN DIRECTION OF AIRFLOW
121	1111		DROP IN DIRECTION OF AIRFLOW
<b>=</b>			DUCT ENCLOSURE IN GYPSUM BOARD FOR 2 HOURS RATING
WW	W		FLEXIBLE DUCT
ď	Ď		THERMOSTAT WITH AUTOMATIC CHANGE— OVER & VENTED LOCKABLE CLEAR COVER
D	4		SUPPLY AIR DUCT - SECTION
	4		RETURN, EXHAUST, OR OUTSIDE AIR DUCT —SECTION
(	3		ROUND DUCT OR STACK - SECTION
	⊠—	12X12CD 360	12"X 12" NECK PERFORATED CEILING DIFFUSER, 360 CFM
1	<b>Z</b>	6X6R 150	6"X 6" PERFORATED CEILING REGISTER, 150 CFM
		CD	CONDENSATE DRAIN
		DN.	DOWN
		DWG.	DRAWING
		OBD	OPPOSED BLADE DAMPER
	<b>-</b> ®	SD	DUCT MOUNTED SMOKE DETECTOR
-	_	VD	VOLUME DAMPER
	<b>→</b>	CFSD	COMBINATION FIRE/SMOKE DAMPER
_	₩	FD	FIRE DAMPER

# AIR DISTRIBUTION

CEILING DIFFUSER- T-BAR CEILING
TITUS: PCS. PERFORATED CEILING SUPPLY
DIFFUSER WITH ADJUSTABLE CURVED DEFLECTOR BLADES.
#28 WHITE.

CEILING DIFFUSER - HARD CEILING TITUS: TDC, CEILING SUPPLY DIFFUSER #26 WHITE.

RETURN & EXHAUST AIR GRILLES/REGISTERS
FOR T-BAR CELLING:
FOR T-BAR CE FOR HARD CEILING: TITUS: 350RL, RETURN GRILLE, #26 WHITE.

SUPPLY GRILLE TITUS: 300RS RETURN GRILLES

# DUCT WORK

SHEET METAL GALVANIZED IRON FABRICATED & INSTALLED AS PER 2016 CMC CODE & 2016 CALIFORNIA TITLE 24 STANDARDS.

SUPPLY & RETURN MAINS

1. SPIRAL DUCT FABRICATED, INSTALLED, & INSULATED AS PER CODE.

2. RECTANGULAR OR

2. RECTANGULAR OR ROUND, FABRICATED & INSULATED AS PER UNIC CODE, & INSULATED PER INSULATION SCHEDULE.

FINAL CONNECTORS TO AIR DEVICES I. FLEXIBLE FIBERGLASS DUCT.
MAXIMUM 7'-0' LONG, 1 1/2' TK.
HEAVY DENSITY FIBERGLASS WITH
LINER & VAPOR JACKET, CLASS I, STANDARD 181.

	SHEET INDEX
SHEET NO.	SHEET TITLE
M-0.1	NOTES AND SCHEDULE
M-0.2	DETAILS
M-1.1	HVAC SITE PLAN
M-2.1	HVAC BASEMENT PARKING 1 & 2 PLANS
M-2.2	HVAC 1ST & 2ND FLOOR PLANS
M-2.3	HVAC ROOF PLAN
M-3.1~3.3	TITLE 24 ENERGY COMPLIANCE FORMS



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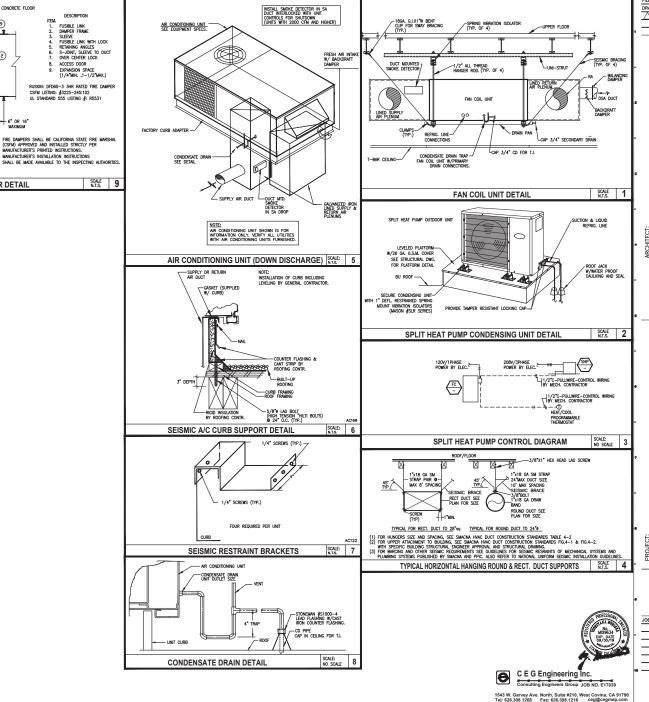
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FIRE DAMPER DETAIL

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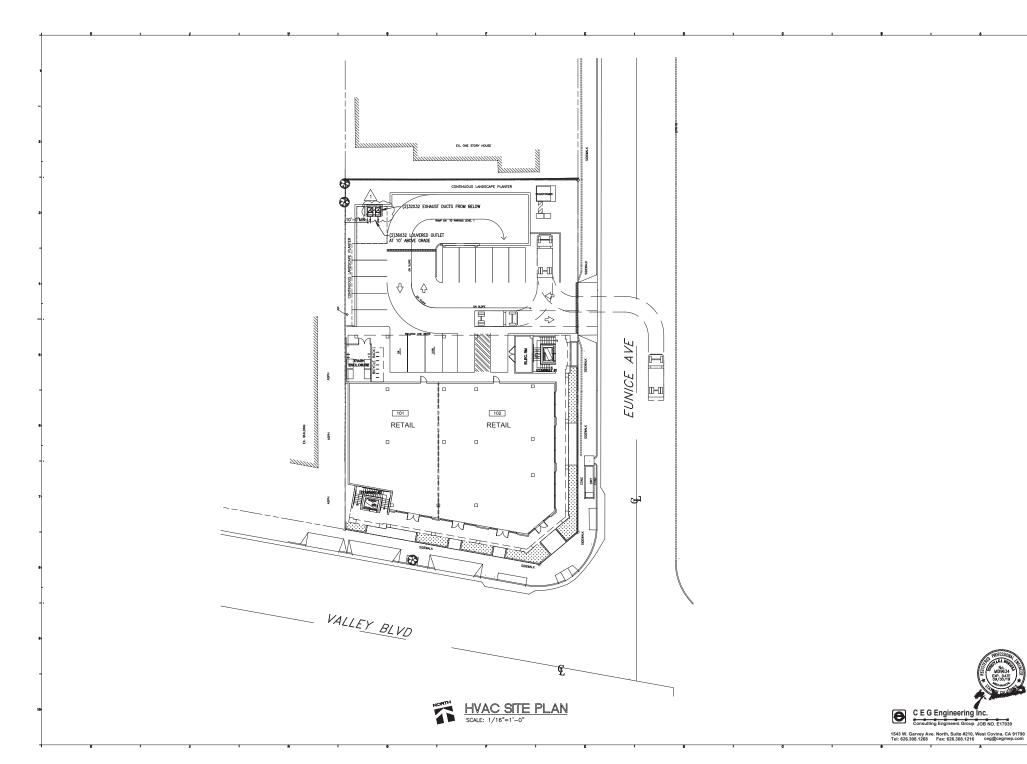
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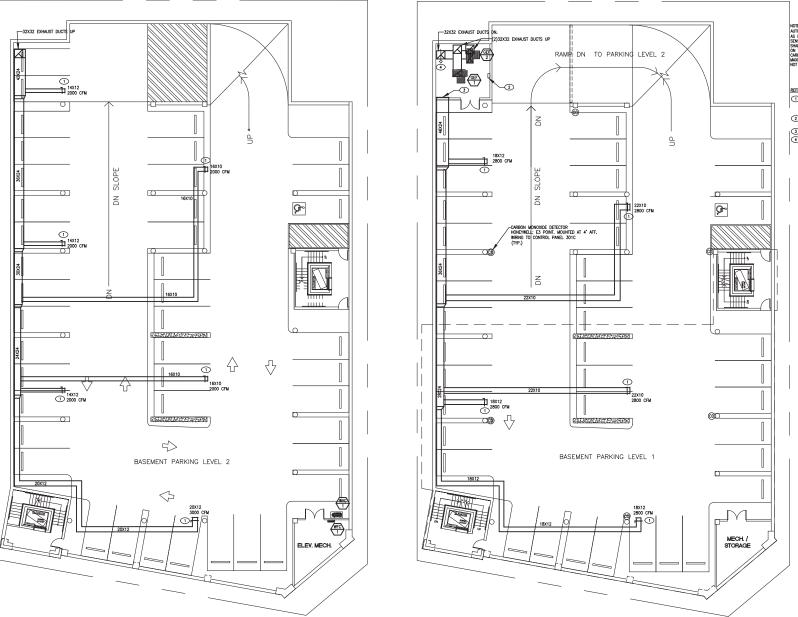
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PH: 626-571-8000





M-1.1



HVAC BASEMENT PARKING 2 PLAN SCALE: 1"=10"-0"

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AUTOMIC CARBON MONOXIDE (CO) SEISING DEVICES SHALL BE SPACED
AS PER IPE MANUFACTURER'S SPECIFICATIONS NO AT LEST ONE
SPECIOR PER AGO SOFT THESE AUTOMIC SEISING CONTROL
SOFT OF STATEMENT OF SPECIFICATION OF A LEST ONE
ON THE STETLE TO MAINTAN A MANUAL MEMBER CONCENTRATION OF
CARBON MONOIDER OF SO PHY MURBAN AND FOR HOME PRODO, WITH A
MANUAL CONCENTRATION NOT DECEDENCE 200 PPM FOR A PERIOD OF
NOT MORE THAN ONE THORP.

# REFERENCE NOTES:

- 1 EXHAUST AIR INLET LOCATED AT NO GREATER THAN 12" BELOW THE LOWEST CEILING DECK WITH MANUAL DAMPER AND 1/4" S.S. WIRE MESH
- 2 GARAGE VENTILATION CONTROL PANEL: HONEYWELL-301C FOR GEF-1
- 3 42X24 DUCT BELOW DECK AT HIGH WALL
- FIRE DAMPER AT THE FLOOR PENETRATION. FIRE DAMPER: RUSKIN: DFD60-3 3HR RATED FIRE DAMPER UL STANDARD 555 LISTING #: R5531. CSFM LISTING: #3225-245:102

W. VALLEY BLVD., 626•571•8000  $\circ$  $\mathbb{C}$ 



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HVAC BASEMENT PARKING 1 PLAN

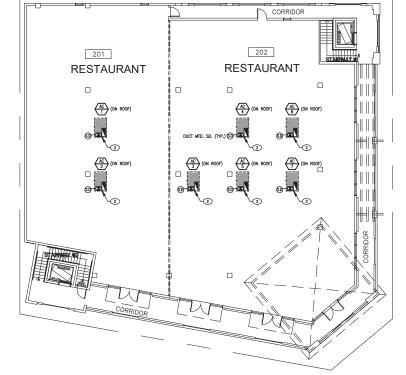
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S L
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140 W. VALLEY BLVD.,
PH: 626-571-8000

M-2.2

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- 1 18X18 LOUVERED OSA INLET WITH 1/4" WIRE MESH.
- 2 CAP THE SA & RA PLENUM FOR T.I., CAP THE CONDENSATE DRAIN FOR T.I.
- 3 CAP THE EXHAUST OUTLET FOR T.I.





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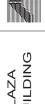
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STE 215, SAN GABRIEL, CA 91776 E: simon.lee@slarch.com

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PH: 626-571-8000







PROJECT:
LA VALLEY GARDEN PLAZA
NEW COMMERCIAL BUILDING
EL WONTE, CA 9173 PLVD.

JOB NO: 151102

M-2.3

C E G Engineering Inc.
Consulting Engineers Group JOB NO. E17039

1543 W. Garvey Ave. North, Suite #210, West Covina, CA 91790 Tel: 626.308.1268 Fax: 626.308.1216 ceg@cegmep.com

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance Report Version: NBCC-PRF-01-5-122020178-5160 Report Generated at: 2017-12-20 14:31:18

Discrepancy between modeled and designed equipment slating? (if "Yes", see Table F. "Additional Remarks" for an explanation)

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-6-122020178-5160

Control

N. ECONOMIZER & FAN SYSTEMS SUMMARY

CFM CFM HP BHP (Sich WC)

Surface Type

ExteriorFloor ExteriorFloor Roof

L BOODING BRODILET SUMMAS

Report Generated at: 2017-12-20 14:31:18

I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance Report Version: NRCC PRF-01-E-122020178-5160

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C E G Engineering Inc.

Consulting Engineers Group JOB NO. E17039

§ 140.4 Confirmed

conomizer Type (if present)

Report Generated at: 2017-12-20 14:31:18

Return Fan

Control

CFM HP BHP (Inch WC)

Project Name: LA VALLEY GARDEN PLAZA NRCC-PRF-03-E Page 10 of 19	Project Name: LA VALLEY GARDEN PLAZA NROC-PRF-01-E Page 11 of 19	Project Name: LA VALLEY GARDEN PLAZA NRCC-PRF-03-E Page 12 of 19
Project Address: 9933-9961 VALLEY BUYD, EL MONTE 91791 Calculation Date/Time: 14:30, Wed, Dec 20, 2017  Compliance Scope: NewEmelopeAndMechanical Input File Name: LA VALLEY GARDEN PLAZA cibd lisk	Project Address: 9933-9961 VALLEY BLVD., EL MONTE 91731 Calculation Date/Time: 14:90, Wed., Dec 20, 2017  Compliance Scope: NewEnvelopeAndMechanical Input File Name: LA VALLEY GARDEN PLAZA.chd16x	Project Address: 9933-9961 VALLEY BLVD., EL MONTE 91731 Calculation Date/Time: 14:30, Wed, Dec 20, 2017  Compliance Scope: NewEmelopeAndMechanical Input File Name: LA VALLEY GARDEN PLAZA citdd fox
N. ECONOMIZER & FAN SYSTEMS SUMMARY 5140.4 Confirmed	O. EQUIPMENT CONTROLS \$ 120.2 Confirmed	S1. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES § 140.9
1. 2. 3. 4. 5.	1. 2. 3. 9 7	This Section Does Not Apply
Outside Air Supply Fan Return Fan 2 2		SZ. COVERED PROCESS SUMMARY – COMMERCIAL KITCHENS § 140.9
	17me WM COSheror Veric Costeror	This Section Does Not Apply
Equip Name CFM CFM HP BHP (Rich Control CFM HP BHP (Rich WC) Control CFM WC) Control CFM HP BHP (Rich WC) Control CFM	(5)48HCLAG6_202 SZAC No Supply Air Temp. Control No Optimum Start	S3. COVERED PROCESS SUMMARY - COMPUTER ROOMS § 140.9
(4)25HCC560_10 223 2000 0.750 0.750 1.43 Constantiolume NA NA NA NA NA NA NA Noticonomizer 🗆 🗆	No Evaporative Cooler No Heat Recovery	This Section Does Not Apply
2H6HCU406_20 997 2000 0,750 0,750 1.43 Constantivolume NA NA NA NA NA FixedDn@ulb 🗆 🗆	P. SYSTEM DISTRIBUTION SUMMARY § 120.4/ § 140.4(I)	S4. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS § 140.9
1 5148HCLA06_20 545 2000 0.750 0.750 1.43 Constant/Volume NA NA NA NA NA RedDinglub 🗆 🗆	Dry System Distribution Confirmed	S4. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS  This Section Does Not Apply
2 S45 2000 0.750 0.750 1.45 Constantionine NA NA NA NA NA Heedbyeub	1. 2. 3. 4. 5. 6.	
EQUIPMENT CONTROLS \$ 120.2 Confirmed	Duct Leolage and   Duct Leolage will be   Ducts   Duct	T. UNMET LOAD HOURS This Section Does Net Apply
	Equip Name Equip Type Sealing Required per verified per NA1 and Insulation R-Value Location R-Value	
1. 2. 3. 2 2. Equip Name Equip Type Controls	[1225NCC560_101	U. ENERGY USE SUMMARY
No DCV Centrols No Economiser	[2948HCLA06_20] SZAC No Yes 8 Other N 🔲 🗎	Energy Component Standard Design Site (MWh) Froposed Design Site (MWh) (MWh) (MWh) (MRw) (MRw) (MRw) (MRw) (MRw)
No Concomiter   No Supply Air Fees Control   No Supply Air Fees Control   No Supply Air Fees Control   No Optimum Start   No Experient Coder		Spece Heating         0.0         1.7         -         70.7         14.3         56.4           Space Cooling         45.3         26.5         18.8         -         -         -
No Evaporative Cooler No Heat Recovery	Source (17 - 19 - 19 - 19 - 19 - 19 - 19 - 19 -	Indoor Fans 24.2 54.9 -30.7
No DCV Controls	Does the Project include a Solar Hot Water System? (If "Tes", see NRCC-PRF-MCH-DETAILS for system information)  No Multifamily or Hotel/ Motel Occupancy? (If "Tes", see NRCC-PRF-MCH-DETAILS for DHW system information)  No	Heat Rejection
No.DC/Ceteis   No.D	·	Pumps & Misc. 0.8
No Evaporative Cooler	Q, INDOOR CONDITIONED LIGHTING GENERAL INFO (see NRCC-PRF-LTI-DETAILS for more info)	
No Heat Recovery	This Section Does Not Apply	COMPUANCE TOTAL 145.5 158.3 -12.8 480.6 424.2 56.4
1 Zones With CO2Sessor Vent. Control Feed Droubli Conceniter No Sunsh Air Tanger	R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E) <sup>1</sup> § 130.0	Receptable 50.4 50.4 0.0
(2)46HCLA06_201 SZAC No Supply Air Temp. Control No Optimum Start	This Section Does Not Apply  "I diction nower deabler were runt in the constituent model for their Denotroes will contract the force for Lun half in the public deskill.	Other Ug
1248H61A6A_201   S2AC   He Controlled   He C	If lighting power densities were aund in the compliance model in thing Departments will earl to their general price force for Landaulre Schwilde Annals.	Process Motors
		TOTAL 195.9 208.7 -12.8 480.6 424.2 56.A
illding Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-122020178-5160 Report Generated at: 2017-12-2014:31:18	CA Building Energy Efficiency Standards-2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-122020178-5160 Report Generated at: 2017-12-20 14:31:18	CA Building Energy Efficiency Standards 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-6-122020178-5160 Report Generated at: 2017-12-20 14:31:18
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pet Nume: UA VALLEY GARDEN PLASA NRCC PRE-CS C. Page: LS of 18	Project Name: LA VALLEY GARDEN PLAZA NRCC-PRF-OL-E Page 14 of 19	Project Name: LA VALLEY GARDEN PLAZA NRCC-PRF-03-E Page 15 of 19
pert Andress: 9933-9961 VALLEY BLUD, EL MONTE 91713 Calculation Date/Time: 9430, Wed, Dec 20, 2017	Project Address: 9933-9961 VALLEY BLVD., EL MONTE 91731 Calculation Date/Time: 14:30, Wed, Dec 20, 2017	Project Address: 9933-9961 VALLEY BLVD., EL MONTE 91731 Calculation Date/Time: 14:30, Wed, Dec 20, 2017
plante Stope: NewEnviropeAntMethancal Ingut File Name: LA VALLEY GARDEN PLAZA citod like	Compliance Scope: NewEnvelopeAndIMechanical Input File Name: LA VALLEY GARDEN PLAZA cibd16x	Compliance Scope: NewErwelopeAndMechanical Input File Name: LA WALLEY GARDEN PLAZA cibid 16x
TUMENTATION AUTHOR'S DECLARATION STATEMENT § 10-103	NRCC-PRF-ENV-DETAILS -SECTION START-	B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E) Confirmed
Iffy that this Certificate of Compliance documentation is accurate and complists.		1. 2. 3. 4.
omeristion Author Name: Yeshi Taka Monoka P.E. Signaturis: Signaturis:	A. OPAQUE SURFACE ASSEMBLY DETAILS Confirmed  1. 2. 3. 4	Fenestration Tag/ID Fenestration Orientation Horizontal Projection Distance Above Window Vertical Projection
ESS 1541 W. Glevery Ave. North, Suite #210 Signature Date: 12/21/2017	1. 2. 3. 4. Surface Name Surface Type Description of Assembly Layers Notes	
(Standard Type West Covina CA 91790 (Et a stems frozon in Applicable)	Stucco - 7/8 in.	Storefront37
no: 1931 105-1566 PONSIBLE PERSON'S DECLARATION STATEMENT	R-19+R5 Wood Stud Wall4 ExteriorWall Wood framed wall, 16in. O.Ç. S.fin. R-19	Scorefront18   East   6.7 ft.   4.0 ft.   Left=0.ft., Right=0.ft.
PONSIBLE PERSON'S DECLARATION STATEMENT  The the following under consults of persons under the less of the State of California:	Gippoun Board - 1/2 in.  Compliance Initial In	Storefront25 South 4.5 ft. None Left: O ft., Right: O ft.
Thy the following under penalty of perjoys, under the laws of the State of Cathering:    Thereby affers that I am eligible under the provious of Cousen." of the Bouness and Professions Code to sign this document as the person regions like for its preparation; and that I am	Concrete Rise Floor 10 Exterior Floor Concrete - 140 lb/ft3 - 4 in.  Capet - 3/4 in.	Door31 Dest 10.0 ft. 6.0 ft. Left: 0 ft., Right: 0 ft.
Named in the State of California as a cold engineer, mechanical engineer, shothcall engineer, or law a biomagn or or law a bounder dendings.  Lather that I are digitally endow the provious of Disease or of the Suprime and Professions Code by section 5537.2 or 6577.3 to sign this document as the periors responsible for its presentation of that are is kneed endowned perioring of the suprime and Professions Code by section 5537.2 or 6577.3 to sign this document as the periori responsible for its presentation of that are is kneed endowned perioring of the suprime and Professions Code by section 5537.2 or 6577.3 to sign this document as the periori responsible for its presentation of that are is kneed endowned perioring of the suprime and period of the suprime and supr	Woodfamed Rev. Via. 05, 11, 70, 11, 70	
preparation; and that I am a licensed contractor performing this work.	R-19 Floori33 Exterior Floor Plywood - 1/2 in	Stockhonn41   South   6.7 ft.   4.0 ft.   Left: 0.8, Right: 0.1.
3 Lafform that I are eligible under Division 3 of the Bounces and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Bosiness and Professions Code Sections 5007, 5538 and \$737.1.	Austral bringle - 1/4 is.   Wave remained by the 1-3 in it.   Wave remained by the 1-3 in it.   Wave remained by the 1-3 in it.   Wave 1-4 in it.   Wave 1	Window47 North 4.0 ft. 6.0 ft. Left: 0 ft., Right: 0 ft. □
controlle Proglam Designer Nation 16600 LFE	R-38 Roof35 Roof Plywood - 1/2 in. Air - Cavity - Well Roof Celling - 4 in. or more	Decr48   North   4,0 ft.   6,0 ft.   Left: 0 ft., Right: 0 ft.   □   □
reparty: SLA ARCHITECTS	Wood frame food, 18in, Oc. 1757, h788	This Section Does Not Apply
thesi (45 N VALLET 61/01, NATE 215. Diet 7 Spreit  VENEZIE SAN GABREL CA 91/76  Declaration Toderment Type:	Air - Cavity - Wall Root College - 4 in or more  Big Interior Flory 17   Interior Flory   Manager - 1 (2 in   1   1   1   1   1   1   1   1   1	
one: (128) 573 6000 (Infe: License #: C142)6	R-O Interior Floor 37 InteriorFloor Piyeon do 1-12 in. Capte 1-14 in.	
ponoble Lighting Designer Name: Signature: NOT IN SCOPE	B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E) Confirmed	
Date Spred:	1, 2, 3, 4,	
State/Zgr. Declaration Statement Type:	Overhang Dimensions Side fin	
e fee: Lietue K		
nedie Mechanical Designer Namic Youln falla Mornida PfL.  Signature:  Signature:		
Seri LH3 W. Gervey Ave. North, Suite #210 Date Signed: 12/21/2017		
State/2g: West Covina CA 91790 Declaration Statem 5 Type:	Storefront13   South   8.5 ft.   4.0 ft.   Left: 0 ft., Right: 0 ft.	
: (LDE) 108-1268 Tale: Ucanor #: A0129634	AAAN GATE ADTE GEORGANISCOTE 📙	
Fing Energy (Microscy Standards 2016 Nonresidential Compliance Report Version: NRCC PRIVITED \$2,2020278 5180 Report Generated at 2017-12-20143118	CA Building Energy Efficiency Standards-2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-122020178-5160 Report Generated at: 2017-12-20 14:31:18	CA Building Energy Efficiency Standards 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-122020178-5160 Report Generated at: 2017-12-20 14:31:18
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t Name: LA VALLEY GARDEN PLAZA NRCC-PRF-03-E Page 16 of 19	Project Name: LA VALLEY GARDEN PLAZA NRCC-PRF-01-E Page 17 of 19	
tt Address: 9933-9961 VALLEY BLVD., EL MONTE 91731 Calculation Date/Time: 14:30, Wed, Dec 20, 2017	Project Address: 9933-9961 VALLEY BIVD., EL MONTE 91731 Calculation Date/Time: 14:30, Wed, Dec 20, 2017	
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C-PRF-MCH-DETAILS -SECTION START-	C. DXHAUST FAN SUMMARY This Section Does Not Apply	
ECHANICAL VENTILATION AND REHEAT (Adopted from 2016-NRCC-MCH-03-E)  Confirmed		
1. DESIGN AIR FLOWS 2. VENTILATION (§ 120.1)	D. DHW EQUIPMENT SUMMARY – (Adapted from NRCC-PLB-01)	
HEAD DESI MA MAN M CO DES MA CO DE MA C	This Section Does Not Apply	
Fig.	E. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS	
Feb. 16 at a 18 at a 1	This Section Does Not Apply	
FEED CONTROL (CEAN) AND STATE OF THE STATE O	F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)	
Feb. 30 A PROPRIETO PARA EL EL ALLA (1978) A PROPRIATO PARA EL EL ALLA (1978) A PROPRIATO PARA	This Section Does Not Apply	
	G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS (Adopted from 2016-NRCC-MCH-01-E) § RA4	
1-101   12725HCC56   0,101   2,000   NA 23.663 NA 23.66 24.00 573 573 NA N NA	Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Sociain copies and verify forms are completed and signed to post in field for Field Inspector to verify).	
2-102   14125HCC-56   2,000 NA NA NA NA NA NA N 14125HCC-56   4,455 NA 37.13   24.00   891   891 NA N NA		
3-201 (2)49HCLA0 2,000 NA NA NA NA NA NA N (2)49HCLA0 3,986 NA 132.8 15.00 1,993 1,993 NA Y NA 🗆	Next Description   MC   MC   MC   MC   MC   MC   MC   M	
6_201	881 UNION H-135A	
	SS 00 00 25 E 2 2 20 20 C	ANTICOL.
TOTAL 16,751 NA NA NA NA I	Coupment Out of Car Co	No. Committee of the Co
DNAL SYSTEM AND TERMINAL UNIT SUMMARY 5 140.4	Coupment Pass Pass Pass Pass Pass Pass Pass Pas	No. No.
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(kittuh) Airliow (dm) Fan Z Z	100940758	09/30/19 09/30/19
Heating Cooling Design Min. Bitp Cycles ECM * Design Min. Bitp Cycles ECM *	1203HCCSS 0_101 2 X X X X	
	[402940256 4 X X X	
1-101-Trm Uscentrolled 2 NA NA NA NA 1-101 2000 NA NA NA NA		
1-101-1tm Uncontrolled 2 NA NA NA 1-101 2000 NA NA NA NA		
1-512-77		C E G Engineering Inc. Consulting Engineers Group JOB NO. E17039

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P.C. CORR. 3/09/2018

ഗ STE 215, SAN GABRIEL, CA 91776 E: simon.lee@slarch.com  $\circ$ Ш

ARCHITECT:

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140 W. WALLEY BLVD., S
PH: 626-571-8000

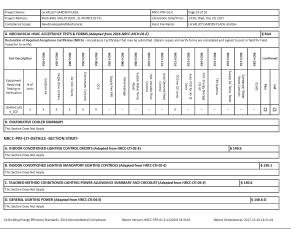


PROJECT:
LA VALLEY GARDEN PLAZA
NEW COMMERCIAL BUILDING
EL WONTE, CA 9173 PLVD.

JOB NO: 151102

1543 W. Garvey Ave. North, Suite #210, West Covina, CA 91790 Tel: 626.308.1268 Fax: 626.308.1216 ceg@cegmep.com

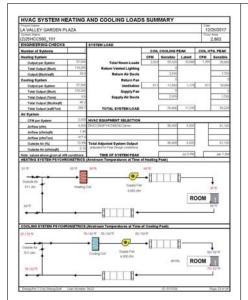
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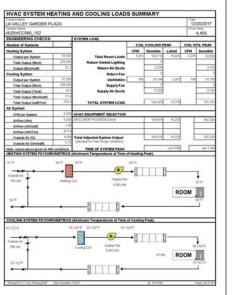


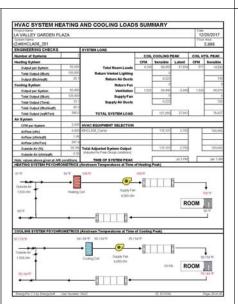
Project Name:	LA VALLEY GARDEN PLAZA	NRCC-PRF-01-E	Page 19 of 19	
Project Address:	9933-9961 WALLEY BLVD., EL MONTE 91731	Calculation Date/Time:	14:30, Wed, Dec 20, 2017	
Compliance Scope:	NewEnvelopeAndMechanical	Input File Name:	LA VALLEY GARDEN PLAZA dibid 16x	
E. GENERAL LIGHTIP	IG FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-	LTI-04-E)	5	140.6(c) 3
This Section Does Not	Apply			
F. ROOM CAVITY RA	TIO (Adapted from NRCC-LTI-04-E)			
This Section Does Not	Apply			
G. ADDITIONAL "US	E IT OR LOSE IT* (Adapted from NRCC-LTI-04-E)			
This Section Does Not	Apply			
H. INDOOR & OUTD	OOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted fro	m NRCC-LTI-01-E and NRCC-LTO-01-E	1	- 5
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-122020178-5160

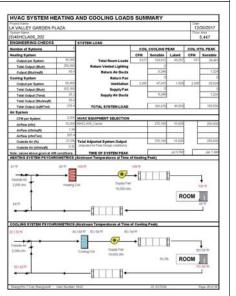
Project Nam LA VALLI	EY GARDEN PLAZA	12/20/201
DESCRI	PTION	
Building I	Envelope Measures:	
§110.8(a):	Installed insulating material shall have been certified by the manufacturer to comply with the Calif Standards for insulating material, Title 20 Chapter 4, Article 3.	fornia Quality
§110.8(c):	All Insulating Materials shall be installed in compliance with the flame spread rating and smoke di Sections 2802 and 707 of Title 24, Part 2.	ensity requirements of
§110.8(g):	Heated slab floors shall be insulated according to the requirements in Table 110.8-A	
§110.7(a):	All Exterior Joints and openings in the building that are observable sources of air leakage shall be weatherstripped or otherwise sealed.	
§110.6(a):	Manufactured fenestration products and exterior doors shall have air infiltration rates not exceed window area, 0.3 cfmft. <sup>2</sup> of door area for residential doors, 0.3 cfmft. <sup>2</sup> of door area for nonreside (avinging and sliding), and 1.0 cfmft. <sup>2</sup> for nonresidential double doors (avinging).	ing 0.3 cfm/ft.° of ntial single doors
§110.6(a):	Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-fa	ctor.
§110.6(a):	Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fene applicable default SHGC.	
§110.6(b):	Site Constructed Doors, Windows and Skylights shall be cauked between the unit and the buildin weathershipped (except for unframed glass doors and fire doors.) The opsure profitors of the roofscaling that greates conditioned spaces from unconditioned as	
§120.7(a):	shall meet the applicable U-Factor requirements as follows:  Metal Building. The weighted average U-factor of the roof assembly shall not exceed 0.098.  Wood Framed and Others: The weighted average U-factor of the roof assembly shall not excee  The oppuse portions of walls that separate conditioned spaces from unconditioned spaces or am  applicable U-factor as follows:	red 0.075. bient air shall meet th
§120.7(b):	Metal Building-The weighted orenge U-factor of the wall assembly shall not exceed 0.113.  Metal Faraset. The weighted wernig U-factor of the wall assembly shall not exceed 0.113.  Heavy Man Walls. A size the expert all colors of the wall assembly shall not exceed 1.013.  Heavy Man Walls. A size the expert all colors of control statusers of the shall not a U-factor of the wall assembly shall not exceed 0.012. The weighted average U-factor of the spatial of control walls assembly shall not exceed 0.012. The weighted average U-factor of the spatial of control walls assembly shall not exceed 0.012. The weighted average U-factor of the spatial of control walls assembly shall not exceed 0.012. The weighted average U-factor of the spatial of the possible of the spatial of the spatia	ictor not to exceed and 0.110. unels and opaque Herm A or B below:
§120.7(c):	This spanish permitted to most some demants as a quantitative control of production to the control of the contr	







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C E G Engineering Inc.

Consulting Engineers Group JOB NO. E17039

1543 W. Garvey Ave. North, Suite #210, West Covina, CA 91790 Tel: 626.308.1268 Fax: 626.308.1216 ceg@cegmep.com

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P.C. CORR. 3/09/2018

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EL MONTE, CA 97731  $\overline{\mathbb{Z}}$ Ò LEY PROJECT:
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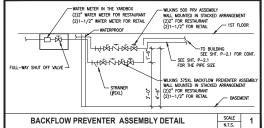
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SCALE 2

SCALE N.T.S.

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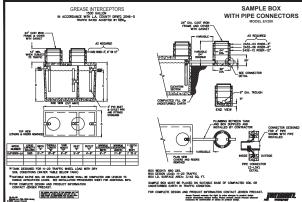


		TABLE 313.3 RS AND SUPPORTS	
MATERIALS	TYPES OF JOINTS	HORIZONTAL	VERTICAL
Cast	Lead and Oakum	5 feet, except 10 feet where 10 foot lengths are installed <sup>1, 2, 8</sup>	Hase and each floor, not to exceed 15 feet
Cast	Compression Gasket	Every other joint, unless over 4 feet then support each joint <sup>1, 2, 3</sup>	Hase and each floor, not to exceed 15 feet
Cast-Iron Hubless	Shielded Coupling	Every other joint, unless over 4 feet then support each joint 123.4	Hase and each floor, not to exceed 15 feet
Copper & Copper Alloys	Soldered, Brazed, Threaded, or Mechanical	1% inches and smaller, 6 feet; 2 inches and larger, 10 feet	Each floor, not to exceed 10 fees
Steel Pipe for Water or DWV	Threaded or Welded	% inch and smaller, 10 feet; 1 inch and larger, 12 feet	Every other floor, not to exceed 25 feet <sup>3</sup>
Steel Pipe for Gas	Threaded or Welded	% inch, 6 feet; % inch and 1 inch, 8 feet; 1% inches and larger, 10 feet	½ inch, 6 feet; ¼ inch and 1 inch, 8 feet, 1¼ inches every floor level
Schedule 40 PVC and ABS DWV	Solvent Cemented	All sizes, 4 feet; allow for expansion every 30 feet <sup>3</sup>	Base and each floor, provide mid-story guides; provide for expansion every 30 feet
CPVC	Solvent Cemented	1 inch and smaller, 3 feet; 1¼ inches and larger, 4 feet	Hase and each floor; provide mid-story guides

GREASE INTERCEPTOR DETAIL

Brace not to exceed 40 foot (12 192 mm) intervals to prevent hor

Support at each horizontal branch connection rs shall not be placed on the coupling

PIPING HANGER AND SUPPORT SCHEDULE

WATER PIPE SIZING CALCULATIONS (FOR RESTAURANT)
FIXTURE UNITS(MAX) FOR EACH RESTAURANT80 FU =61 GPM
STREET WATER PRESSURE: 94 PSI (HIGH), 90 PSI (LOW)
WATER SZING CALCULATIONS — 807U(610PM) (2" OW MANN)
5. MINUS VERT. LIFT(MXX.) 23 ft X 0.434 6. MINUS PRESSURE REQUIRED AT FIXTURE ————————————————————————————————————
TOTAL PRESSURE AVAILABLE FOR FRICTION LOSS 35.8 PSI
TOTAL LENGTH(FARTHEST) 295 FT X F 1.25 = TOTAL EQUIVALENT LENGTH (T.E.L.) 369 FT
35.3 PSI X 100 FT + <u>369</u> T.E.L. = <u>9.7</u> PSI 9.6 PSI LOSS PER 100 FT COLD WATER- SELECTED

			COLD	WATER	PIPIN	G (FOR	RESTAURAN	NT)
PIPE SIZE	1/2"	3/4"	1*	1-1/4"	1-1/2"	2"		
F.V. FU	0	0	0	14	35	132		
F.T. FU	3	12	26	56	103	254		
	LOSS/100	FT; 8 FT/S	MAX. VEL.					
	LOSS/100			ATER I	PIPING	(FOR	RESTAURAN	п)
	LOSS/1000			ATER I	PIPING	(FOR	RESTAURAN	п)
9.6 PSI			HOT W				RESTAURAN	п)

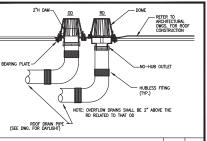


TABLE HANGER RI		
PIPE AND TUBE SIZE	ROO SIZE	70
(inches)	(inches)	
10-4	34	
5 - 8	16	
10-12	14	
for SI units: 1 inch = 25.4 mm		

WASTE & WATER FIXTURE UNITS (FOR RETAIL)						
	WASTE			WATER		
FIXTURE IN FUTURE	QUANTITY	FIXTURE	TOTAL	FIXTURE UNITS	TOTAL	
WATER CLOSET (FLUSH VALVE)	2	4	8	8	16	
LAVATORY	2	1	2	2	2	
		TOTAL	10		18 FU (34 GPM)	

SEWER LINE: 4" (10 FU) WASTE FOR RETAIL WATER LINE: 1-1/2" (18FU) CW MAIN PIPE FOR RETAIL

# WATER PIPE SIZING CALCULATIONS (FOR RETAIL)

STREET WATER PRESSURE: 94 PSI (HIGH), 90 PSI (LOW)

WATER SIZING CALCULATIONS - 18FU(34GPM) (1-1/2" CW MAIN) 1. STREET WATER PRESSURE. -----90 PSI

2. MINUS 1-1/2" WATER METER PRESSURE LOSS 3. MINUS 1-1/2" WILKINS 375XL LEAD FREE RPBP PRESSURE LOSS 4. 1-1/2" WILKINS 500 PRV PRESSURE LOSS PRESSURE SET AT 80 PSI -----5.7 PSI

5. MINUS VERT. LIFT(MAX.)

6. MINUS PRESSURE REQUIRED AT FIXTURE

TOTAL PRESSURE AVAILABLE FOR FRICTION LOSS

TOTAL LENGTH(FARTHEST) 265 FT X F 1.25 = TOTAL EQUIVALENT LENGTH (T.E.L.) 331 42.4 PSI X 100 FT + 331 T.E.L. = 12.8 PSI

42.7 PSI

12.6 PSI LOSS PER 100 FT COLD WATER- SELECTED

	COLD WATER PIPING (FOR RETAIL)							
PIPE SIZE	1/2*	3/4*	1*	1-1/4*	1-1/2"	2"		
F.V. FU	0	0	0	14	35	132		
F.T. FU	4	13	30	56	103	254		

PSI	LOSS/	100FT;	8	FT/S	MAX.	VEL.			

HOT WATER PIPING (FOR RETAIL)									
PIPE SIZE	1/2*	3/4"	17	1-1/4*	1-1/2*	2*			
F.T. FV	3	8	16	28	46	119			
12.6 P	SL L0SS/10	OFT: 5 FT/S	MAX VEL						

PIPE MATERIAL SCHEDULE							
SERVICE	PIPE	FITTINGS	LOCATION				
WASTE & VENT	CAST IRON NO HUB	ABOVE GRADE BELOW GRADE					
STORM DRAIN	CAST IRON NO HUB	CAST IRON NO HUB	ABOVE GRADE BELOW GRADE				
HOT AND COLD WATER	COPPER TYPE "L" HARD DRAWN	WROUGHT COPPER	ABOVE GRADE				
COLD WATER	COPPER TYPE "L" HARD DRAWN	WROUGHT COPPER	BELOW GRADE				
INDIRECT WASTE CONDENSATE DRAIN	COPPER TYPE "M" HARD DRAWN	WROUGHT COOPER	ABOVE GRADE				
GAS	BLACK STEEL SCHEDULE 40	BLACK STEEL MALLEABLE IRON	ABOVE GRADE				
GAS	BLACK STEEL SCH. 40 W/COATING	BLACK STEEL MALLEABLE IRON W/COATING	BELOW GRADE				

SHEET INDEX					
SHEET NO.	SHEET TITLE				
P-0.1	NOTES, DETAILS AND SCHEDULE				
P-1.1	PLUMBING SITE PLAN				
P-2.1	PLUMBING BASEMENT PARKING 2, PARKING 1 PLAN				
P-2.2	PLUMBING 1ST FLOOR & 2ND FLOOR PLAN				
P-2.3	PLUMBING ROOF PLAN, WASTE/GREASE WASTE AND VENT RISER DIAGRAM				

S	YMBOLS AN	D LEGEN	D		
SYMBOLS	ABBREV.		DESC	RIPTION	П
	w	SEWER WAS	STE		
	CW	COLD WATE	R		П
	HW	HOT WATER			П
	HWR GW	HOT WATER GREASE WA			ı
G	G	GAS			П
co	CD	CONDENSAT			Ш
	SOL			OOR OR GRADE	ш
CWV	CWV	COMBINATIO		: VENT	П
DS	DS	DOWNSPOUT			Ш
	FS	FLOOR SINI			ш
F	WCO	WALL CLEA			ш
<del>•</del>	COTG		TO GRADE		ш
<del>•</del>	FCO		TO FLOOR		Ш
0	FD	FLOOR DRA	NN		Ш
•	POC	POINT OF	CONNECTION	1	ш
✓TP \	TP	TRAP PRIM	ER		П
AP ACCESS PANEL ASR AUTO. FIRE SPRINKLER RISER BFP BACKFLOW PREVENTER BC BALANCING COCK CB CATCH BASIN CO CLEANOUT DN. DOWN HDR HEADER	MH MANHOLE	ELEVATION E IN & CONNECT RAIN W DRAIN F COCK	PRV (N) (E) NA N.I.C. VTR DD	PRESSURE REDUCING VALVE NEW EXISTING NOT APPLICABLE NOT IN CONTRACT VENT THROUGH ROOF DECK DRAIN	

## **GENERAL NOTES**

- 1. ALL MATERIALS AND INSTALLATION SHALL CONFORM TO 2016 CALIFORNIA PLUMBING CODE.
- 2. WASTE AND VENT PIPING INSIDE BUILDING SHALL BE HUBLESS CAST IRON WITH STAINLESS STEEL CLAMPS.
- 3. HOT AND COLD WATER PIPING INSIDE BUILDING SHALL BE TYPE "L" COPPER WITH 95-5 LEAD FREE SOLDER JOINTS.
- 4. CONDESATE DRAIN PIPING SHALL BE TYPE "M" COPPER WITH 95-5 LEAD FREE SOLDER JOINTS. 5. ALL WATER SHUT OFF VALVES SHALL BE QUARTER TURN BE BRASS, BRONZE OR STAINLESS STEEL BODY.
- 6. COPPER AND STEEL PIPE AND VALVE CONNECTIONS SHALL HAVE DI-ELECTRIC UNIONS.
- ALL FLEXIBLE METAL PIPE CONNECTIONS SHALL BE BRADED STAINLESS STEEL, 150 PSIG RATED. NO NON-METALLIC FLEX. CONNECTIONS ARE ALLOWED.
- 8. NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL WITH SCREWED ON CONNECTIONS.
- 9. ALL WATER AND GAS PIPING SHALL BE PRESSURE TESTED WITH COMPRESSED AIR OR NITROGEN WITH MAN LINES CAPPED WITH PRESSURE GAZE AND CHARGING FITTING AND PRESSURED AT 720 PIGG, HELD FOR 24 HOURS, NO DORPO IN PRESSURE SHALL ER INDICATOR ATT THE DID OF 44 HOURS, AND FORD ON PRESSURE INDICATES A LIDK CONDITION AND PLUMBING CONTINUED SHALL USE SOME WATER TEST OR DETECTION TO DETECT ANY LIDK AND FIR AND PRESS HE SET UNIT, NO LIDKS AND EXTENTION.
- 10. ALL WASTE LINES SHALL BE TESTED FOR LEAKS WITH CAPPED MAIN LINE AND WATER FILLED TO HIGHEST LEMEL OPEN PIPE FOR 74 HOURS. THERE SHALL BE NO DROP IN WATER LEMEL ANY DROP IN WATER LEVEL INDICATES LEAK IN THE SYSTEM AND PLUMBING CONTRACTOR SHALL DETECT AND FIX LEAK AND RE-TEST FOR LEAK FREE CONDITION.
- 11. ALL TESTING SHALL BE MONITORED BY ARCHITECT OR HIS REPRESENTATIVE.
- PLUMBING CONTRACTOR SHALL VERIFY IN FIELD, EXACT LOCATIONS OF SITE WATER, SEWER AND GAS LINES FOR CONNECTIONS BUILDING LINES.
- 13. PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL INFORMATION PERTAINING TO CONNECTIONS OF WASTE, WATER AND GAS LINES, VERIFY INVERT ELEVATION OF SEMER LATERALS, MANHOLE FLOW LINE ETC. IN THE EVENT OF CONFLICTS HE SHALL NOTIFY ANOTHECT PRIOR TO PREPARATION BID COSTS.
- 14. ALL WASTE, WATER AND GAS LINES SHALL BE RUN AWAY FROM FOUNDATION FOOTINGS. INSTALL WALL SLEEVES FOR ALL OPENINGS THROUGH CONCRETE WALLS, SLABS AND FOOTINGS AND CAULK WITH MOISTURE RESISTANT SILCOME CAULKING.
- 15. PROVIDE WALL AND FLOOR CLEANOUTS AS PER 2016 CPC FOR CLEANING WASTE LINES.
- INSTALL SHUT-OFF VALVES FOR ALL PLUMBING FIXTURES AND PROVIDE ACCESS PANELS FOR EASY SHUT-OFF.
- 17. RUN ALL WASTE AND OTHER GRAVITY DRAINS INCLUDING ROOF DRAINS AT 1/4 INCH PER LF.
- RUN ALL PIPING INSIDE BUILDING CAVITIES AS MUCH AS POSSIBLE. AVOID RUNNING PIPES THROUGH SILL
  PLATES AND BEAMS AND RUN INSIDE CHASES.
- REDUCED PRESSURE BACK FLOW PREVENTION DEVICE AS REQUIRED BY CODE IS PART OF SITE WORK.
  THIS SHALL BE CO-ORDINATED WITH CIVIL ENGINEERING SITE PLAN.
- 20. ALL PIPE PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE CAULKED WITH ICBO APPROVED FIRE STOPPING CAULKING.
- 21. ALL WATER HEATERS SHALL BE CEC CERTIFIED.
- 22. ALL HW PIPING SHALL BE INSULATED PER CEC.
- 23. MAXIMUM HW TEMP. SHALL BE 110'F AT THE SINK, BATH TUB/SHOWER OUTPUT.
- 24. ALL PLUMBING FIXTURES SHALL BE LOW WATER CONSUMPTION TYPE AS OUTLINED IN CEC.
- 25. ALL RAIN WATER PIPING WITHIN BUILDINGS SHALL BE CAST IRON WITH IAPMO APPROVED FITTINGS.
- 26. ALL PIPE FITTINGS & JOINTS SHALL BE FLANGED & GASKETED FOR SIZES 2-1/2" AND LARGER 27. ALL MATERIAL SHALL COMPLY WITH AB1955 NO LEAD REQUIREMENT. 28. COMPLY WITH 2016 OF ASSE 1070 REQUIREMENT.



C E G Engineering Inc.

1543 W. Garvey Ave. North, Suite #210, West Covina, CA 91790 Tel: 626.308.1268 Fax: 626.308.1216 ceg@cegmep.com

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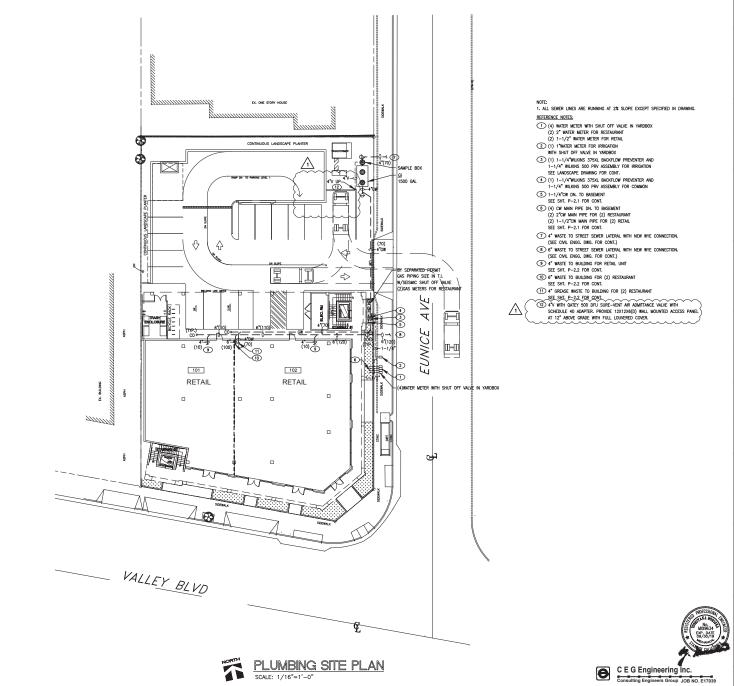
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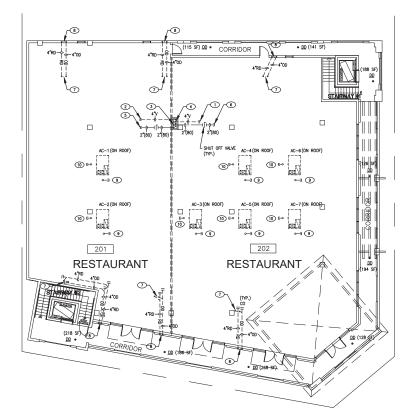
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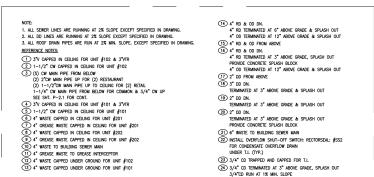
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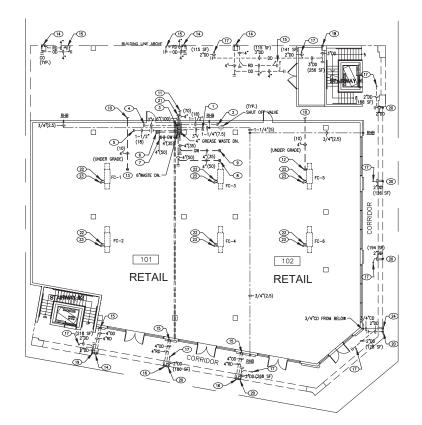
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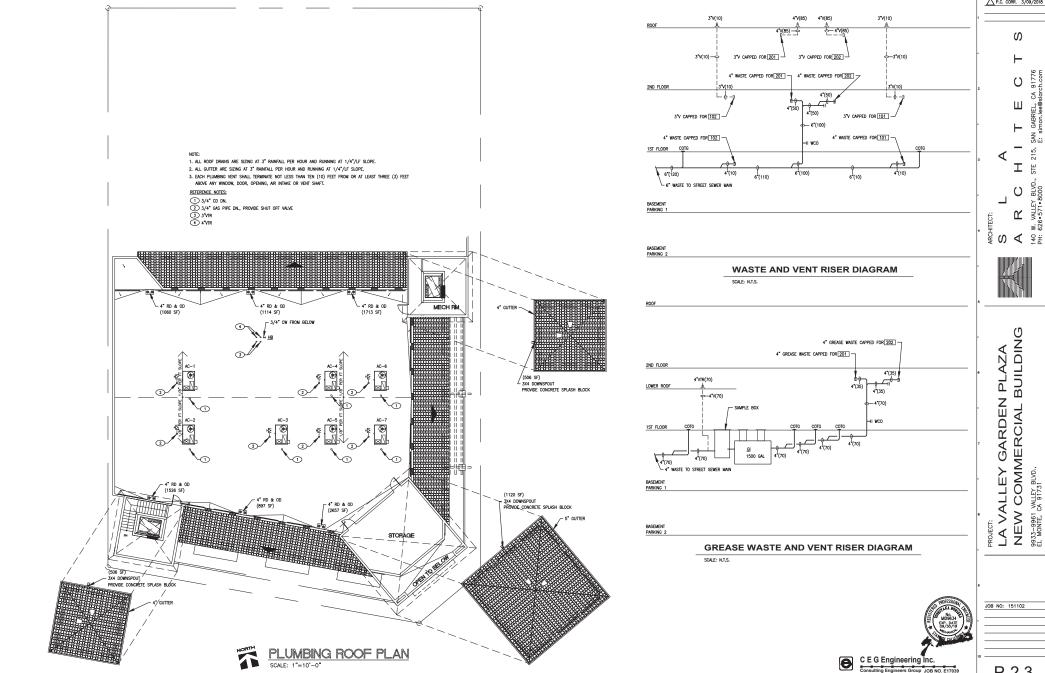
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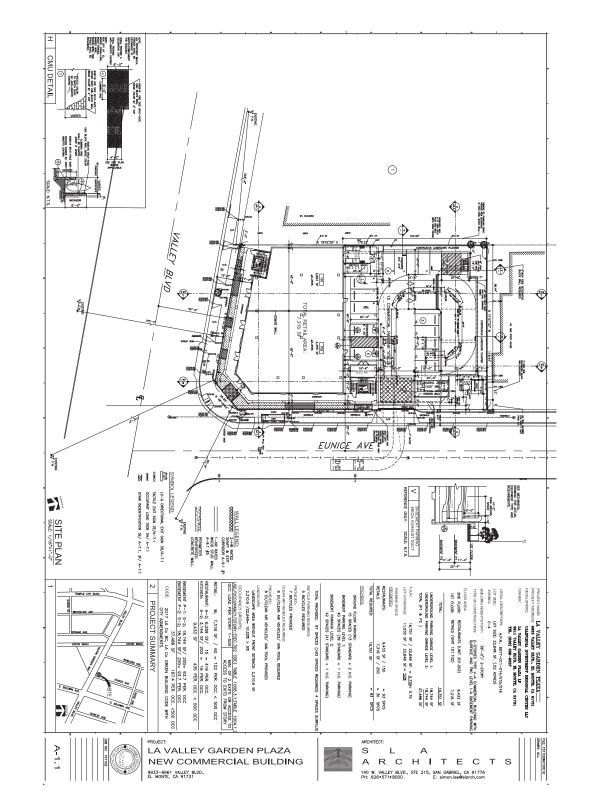
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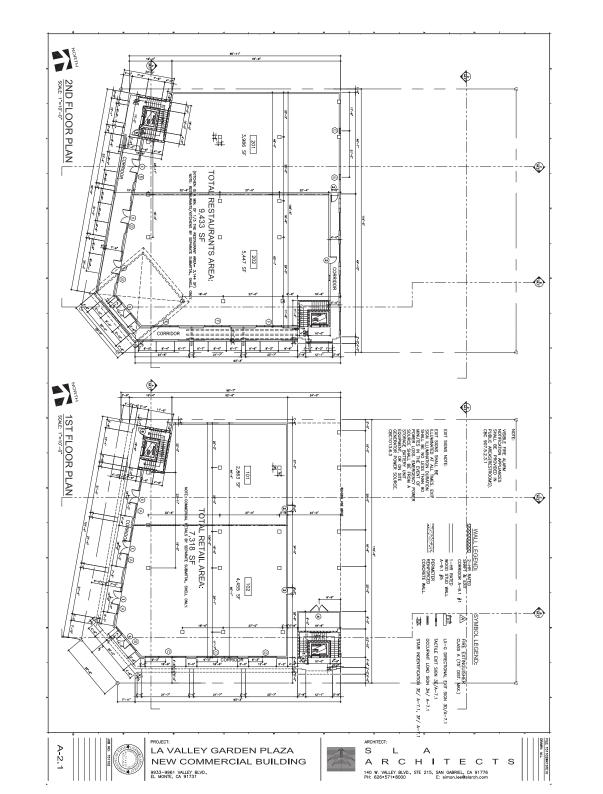
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EL MONTE, CA 91731 GARDEN

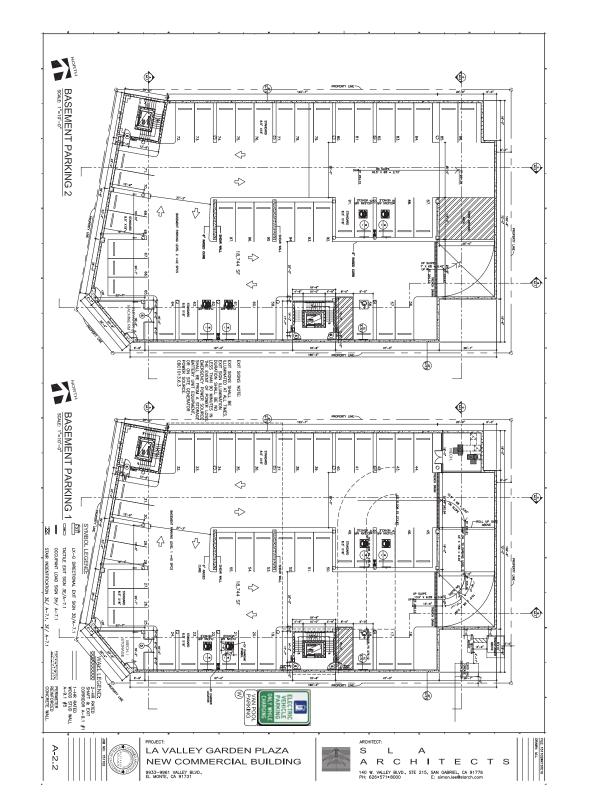
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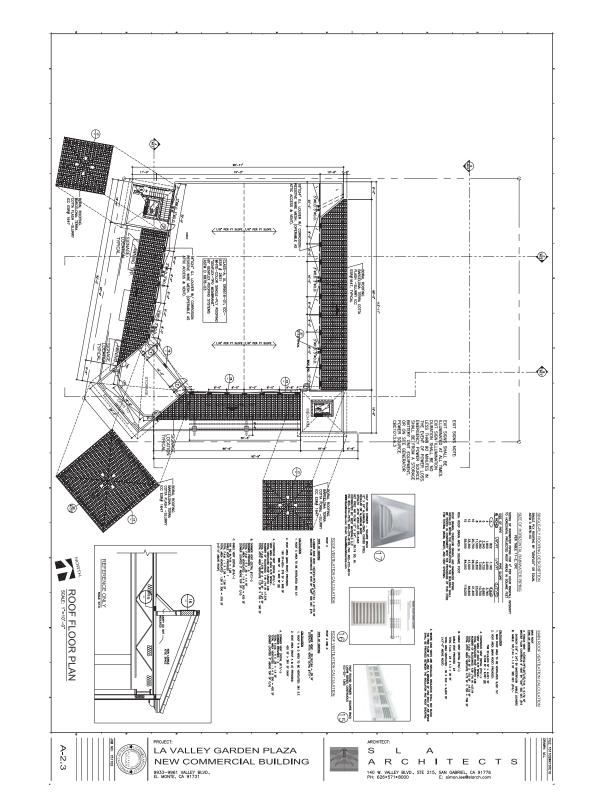
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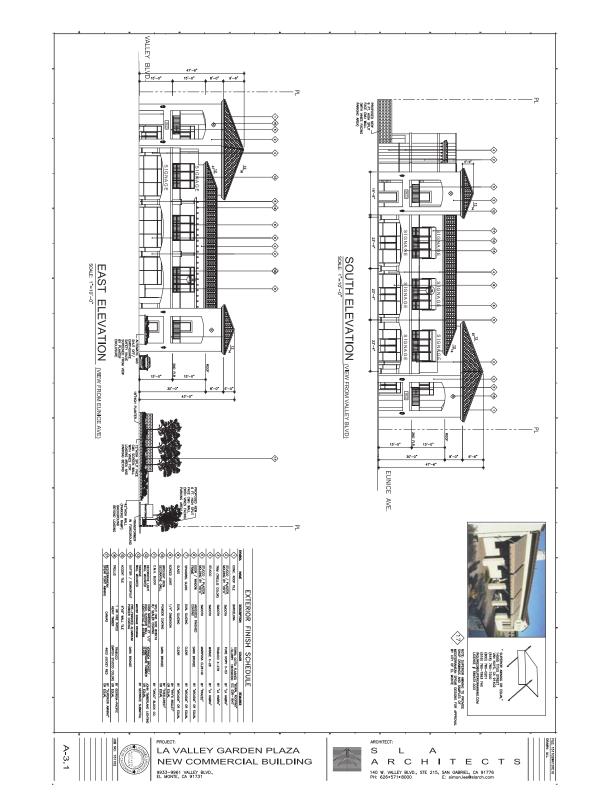
1543 W. Garvey Ave. North, Suite #210, West Covina, CA 91790 Tel: 626.308.1268 Fax: 626.308.1216 ceg@cegmep.com

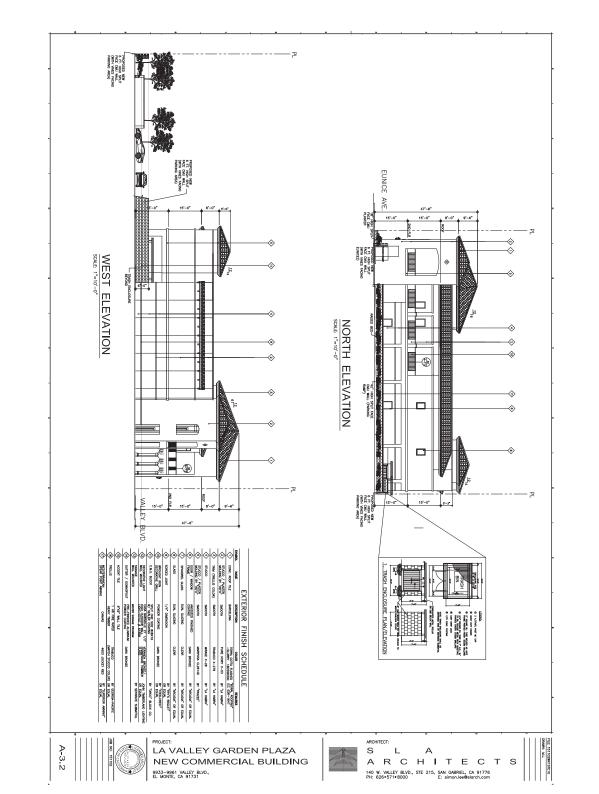


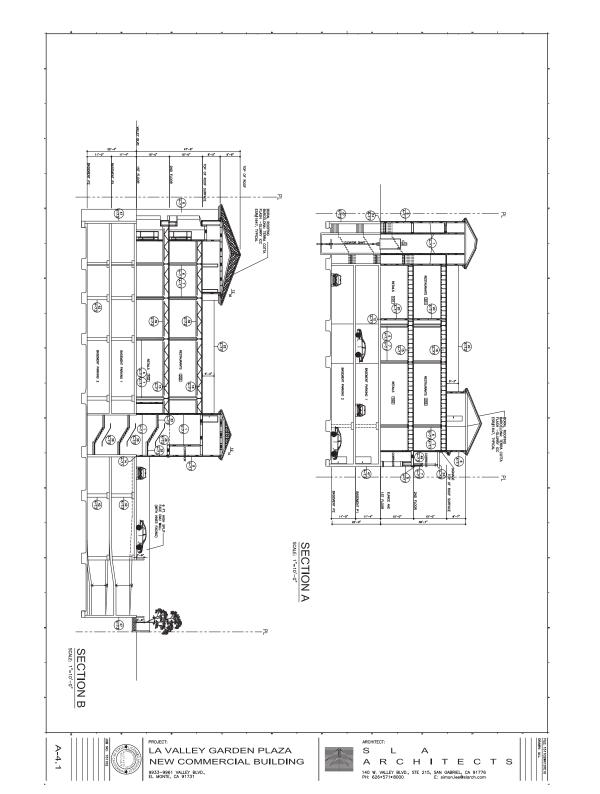


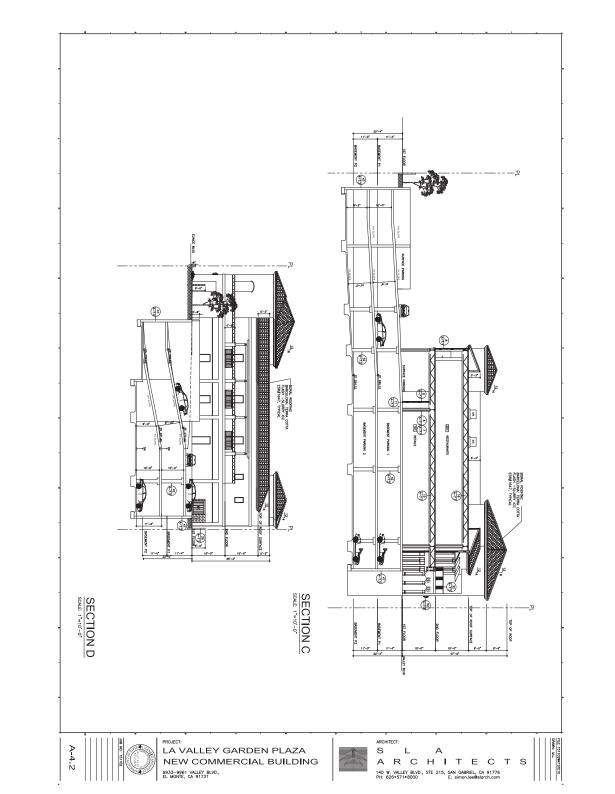


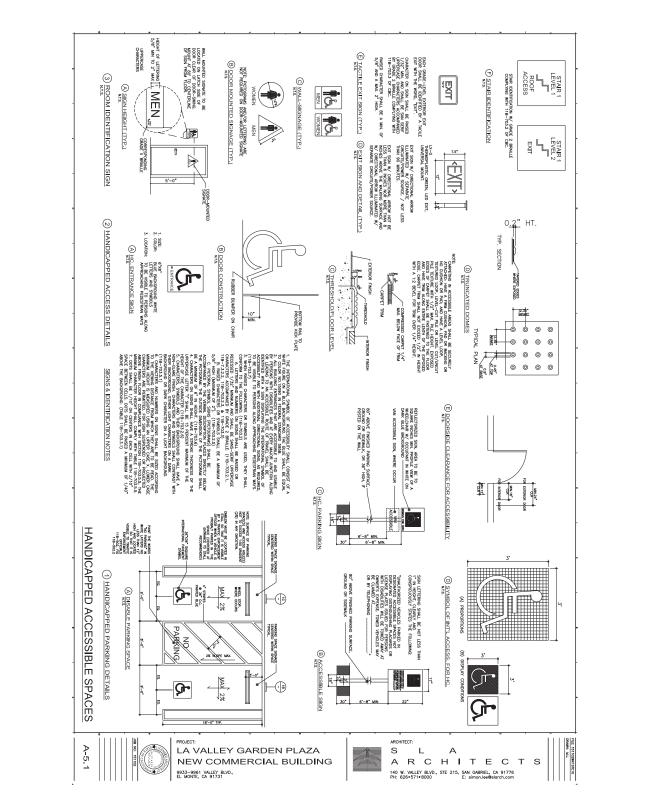


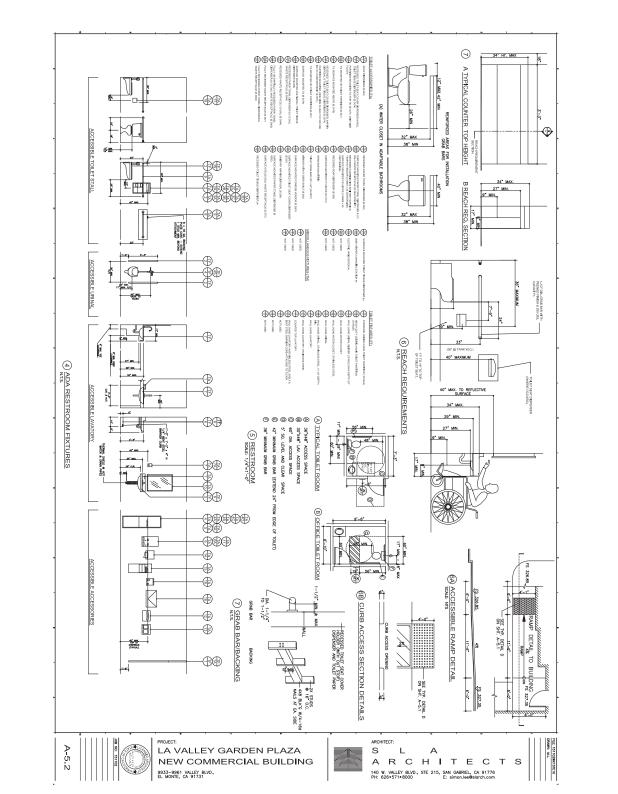


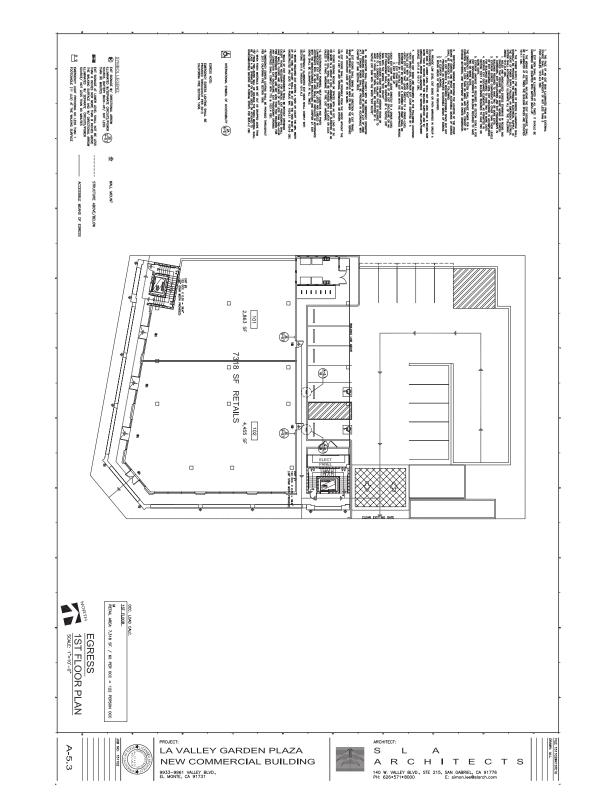


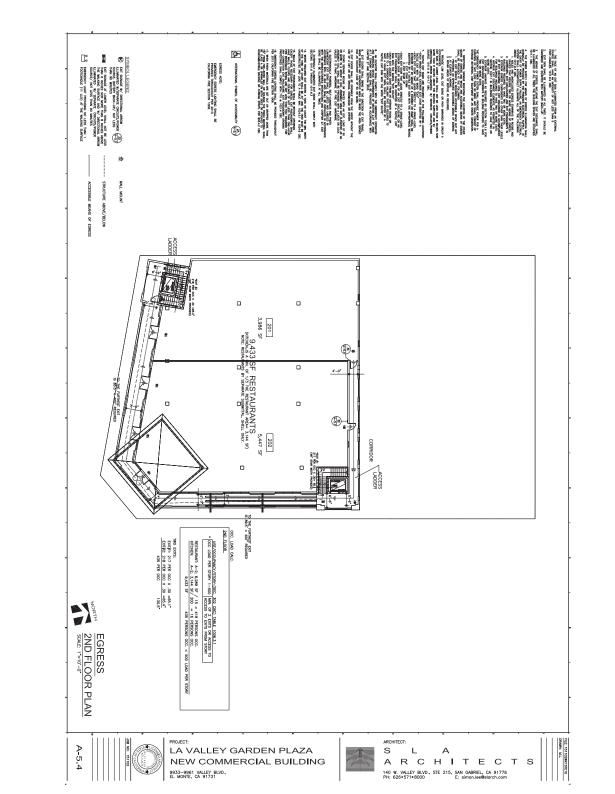


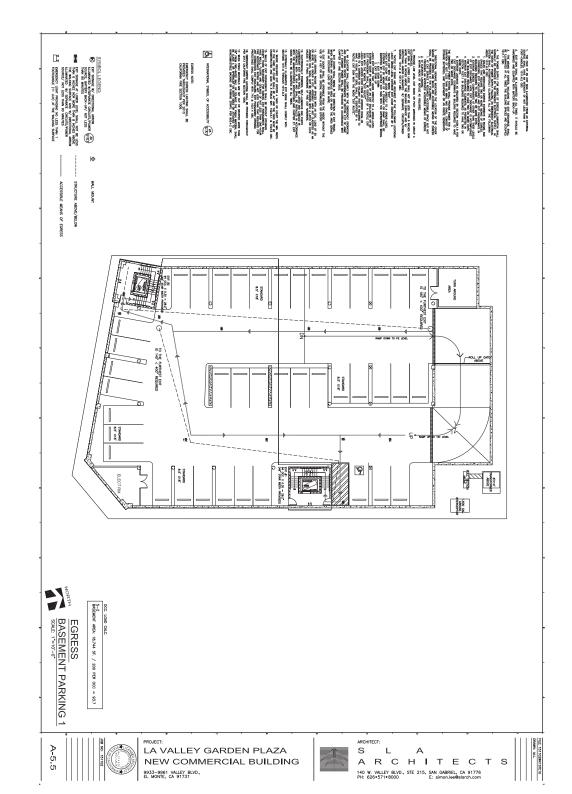


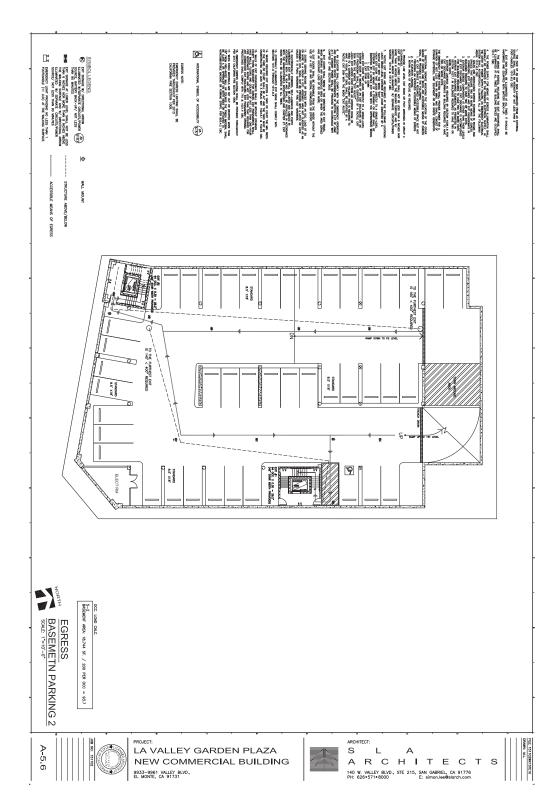


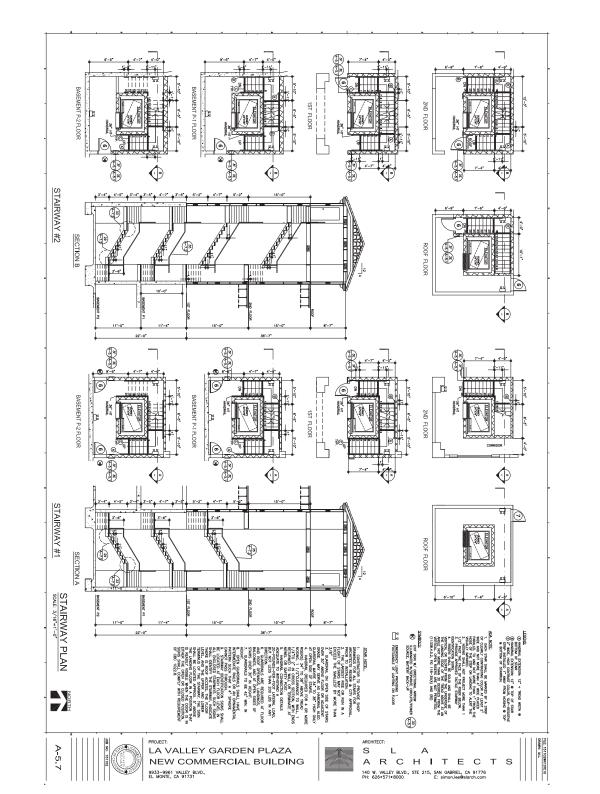


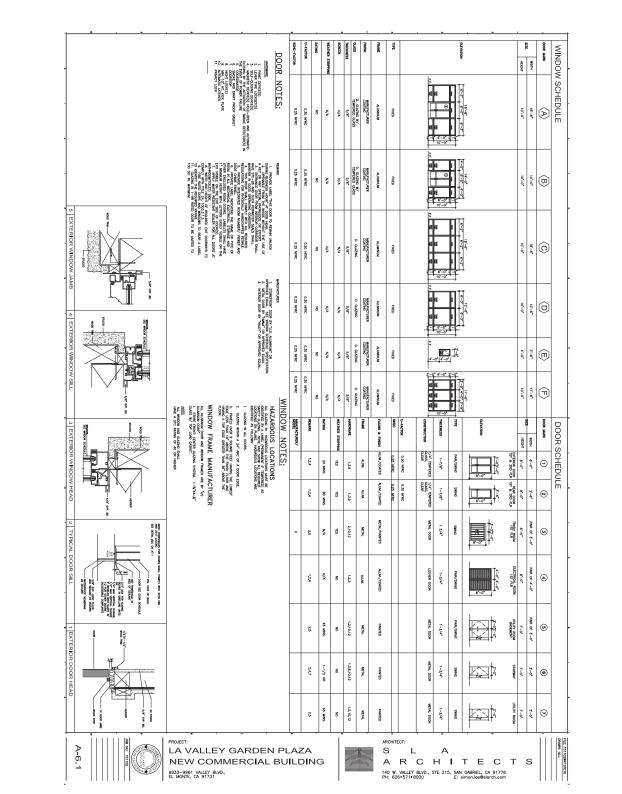










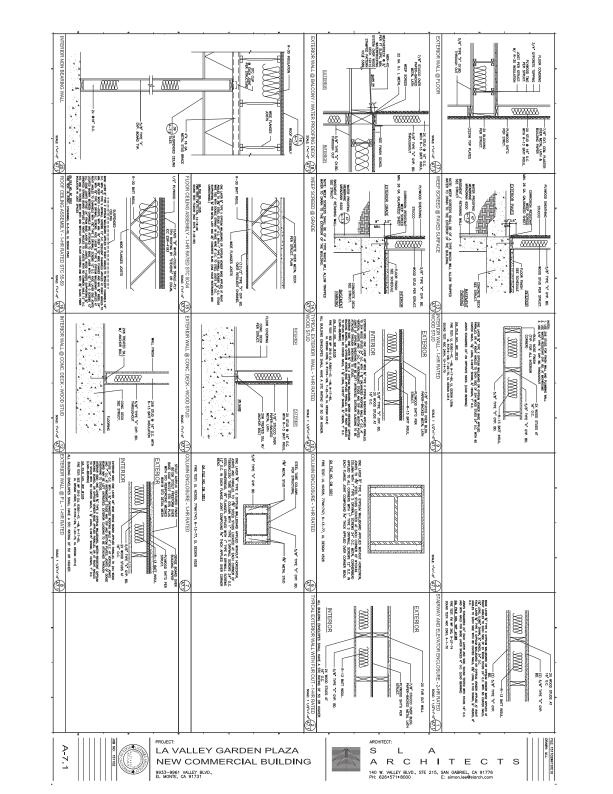


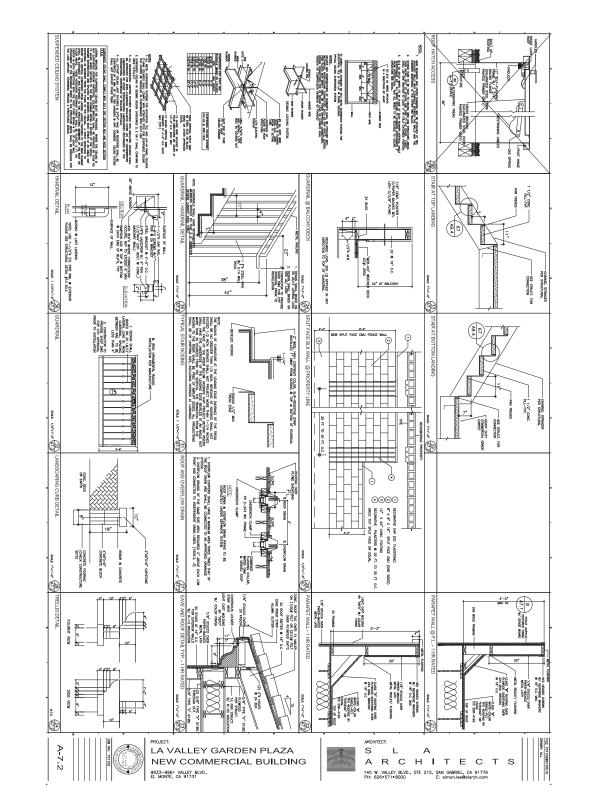
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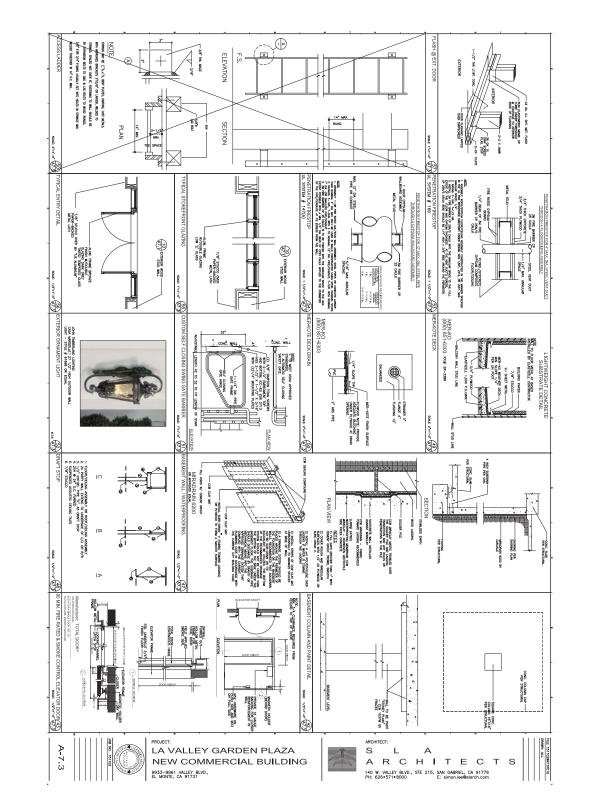
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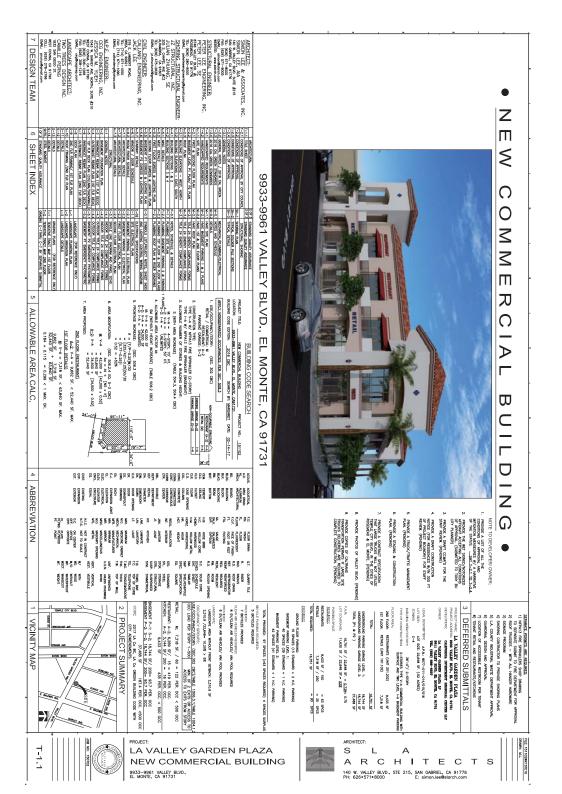
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NEW COMMERCIAL BUILDING
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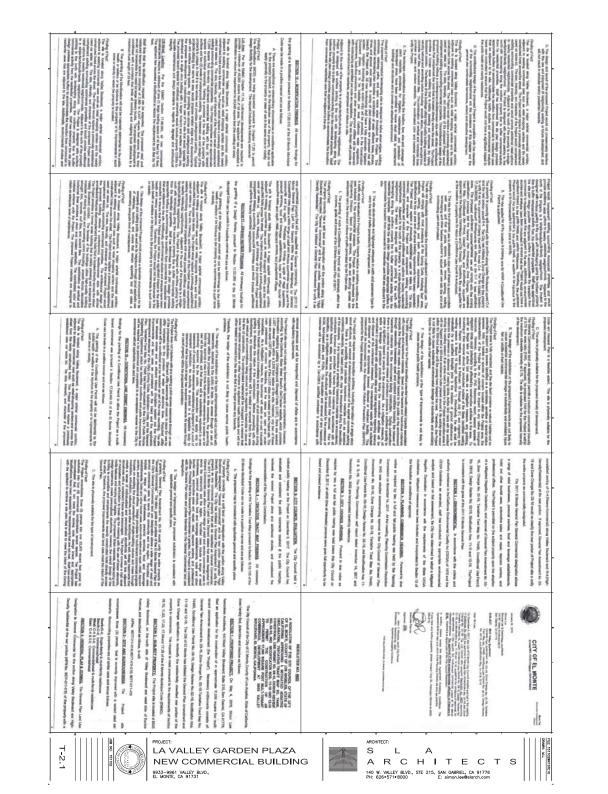






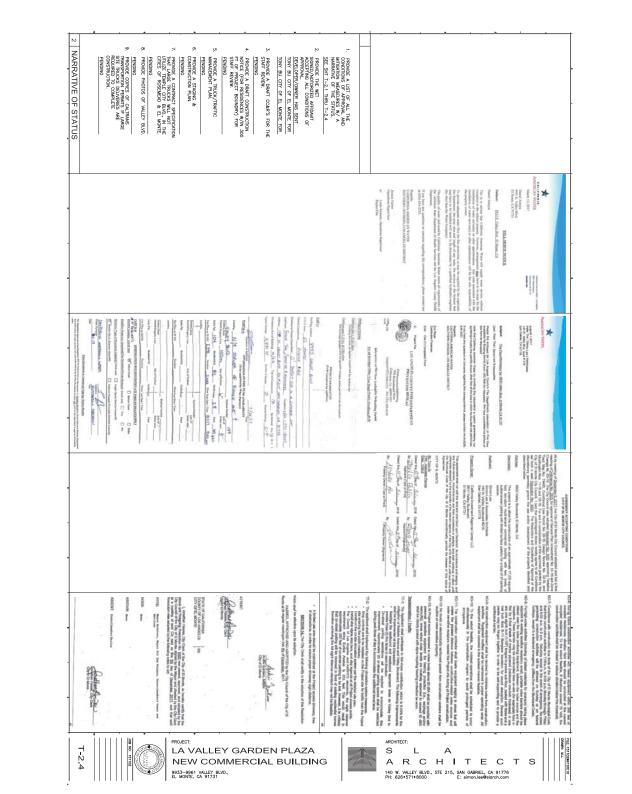






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	DEPAIR  This professor shall stabile to these separate of a known flag Program for the China Chap Professor (China Chap China Chi	We for the property of commission in the stream of stations in two injuried and inflictions, but you for the property of commission in the stream of the property of the prope



- FOR COMERICIDO SAFITY, ALL MORK SHALL COMPORM TO THE REQUIREMENTS OF COSH, CAL-CASHA, AND REALED AUTHORIES COMPACTOR SHALL BE RESPONSIBLE TO POST MARNING SIGNS AND OTHER PROTECTING MASSIRES TO CLEARLY NOTIFY ALL PERSONS IN SITE TO PREVENT ANY POSSIBLE BULLOW.

TURNISH AND NISTALL ALL FINESH CARRENTRY INCLUDING TRIM, DOOR FRAMES, PAMELING, SHELINNG, WEATHER-STRIPPING, ETC. AND: NISTALLATION OF FINISH HARDWARE, BATH ACCESSORIES, CABINET PULLS, ETC.

ALL JOINTS SHALL BE TIGHT AND TRUE AND SECURELY FASTENED. CORNERS SHALL BE NEATLY MITERED, BUTTED, OR COPED, WITH NAILS SET AND SURPACE FREE OF TOOL MARKS.

PROVIDE MUESC ATTACHED TO STRUCTURAL STEEL # ANY, WITH 1/2" ROLL'S AT 45 OCC. FICH ATTACHEN OF OTHER MATERIAL 1/2" ROLL'S ATTACHEN HARDWARE SHALL BE EXPOSED IF MEGESSARY, UN ROUNDER CHAPTER HARDWARE SHALL BE EXPOSED IF MEGESSARY, UNE COLUMN SHALL BE EXPOSED TO MAKE A FLUSH FRISH THE PROVIDED TO

PROVIDE FIRE STOPS EVERY 10 FEET MAXIMUM HORIZONTALLY VERTICALLY FOR STUD WALLS AND PARTITIONS.

- DMSOM 2. SITE WORK

  1. OLEA SITE OF ALL TRUS TOWN INCESSARY TO BE REMOKED FOR REMOKED, ALL EQUADON OF THE WORK.

  2. ORF, ALL EQUADON MOVES TO PUBLIC AND OTHER AUTHORITIES AND UTILITY COMPANIES. AS REQUIRED.

  3. REMOKE, AND LEGALLY DISPOSE OF ALL DEBRIS AND REFINE \*\*\*.
- PROVIDE PROTECTION, BURRICADES, TEMPORARY TOLET, ETC. AS REQUIRED BY STATE AND LOCAL LOWS.
  GRAUNG, EXCHANTING, AND FILING AS PER LOCAL CODES AND CALFORNIA BUILDING CODES.
- NOTIFY ARCHITECT AND SOIL ENGINEER OF EXCANATIONS TO DEPTHS SHOWN AND OF ANY INADEQUACIES IN REACHING SUITABLE SPECIFIED SUPPORTING MATERIAL.
- EXCAVATION TO DEPTHS LOWER THAN PLAN SHOWN SHALL BE FILLED WITH CONCRETE AS SPECIFIED FOR FOUNDATIONS.

THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BARRIERS LOCHTING, COMERNICS, FIRE PREMETTION AND OTHER EQUIPMENT TO PROTECT THE SAFETY OF ALL PRESONS AND THE PROFERTY CHANCE. THE PROFERTY OF THE CONSTRUCTION CONTRACT. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR EXERCISING ALL SAFETY PRECAUTIONS CONTINUIOUSLY PER LOCAL AND STATE CODES ON THE CONSTRUCTION STEE.

MINIS AND SECENCIATIONS ON PLANS ARE CODERNINE AND ARE MINED TO INCLUDE. DESCRIPTION OF ACCESSARY TO COMPILETE THE MINES AND THAN NOT ENERY TIBM IS SECENCIALLY MINISTRADIAN THAN NOT ENERY TIBM IS SECENCIALLY MINISTRADIA AND MINISTRALED AND MERICALLY MINISTRALED AND MERICALLY MINISTRALED AND THE PROVIDED AND INSTALLED AS IF IT MERIC PLULY MINI AND SPECIFICIAL.

- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO FULLY PROTECT ADJACENT PROPERTIES.
- THE SOILS REPORT AND ENGINEER CALCULATION PREPARED FOR THIS PROJECT IS PART OF THESE CONSTRUCTION DOCUMENTS.

SIGN 7: THESMAL AND MOSTURE PROTECTION
THESMAL AND MOSTURE PROTECTION
ALL INSLANDING SHALL BE INSTALLED SIGNIBILLY AND THORNY TO THE DEBRIS COMPLIANCE THE 2%.
REPLACED BY NEW MATERIAL.
REPLACED BY NEW MATERIAL.

- MEDI ECOMATIONS THAT REMOVE THE LATERAL SUPPORT FROM EXISTINA
  BUILDING OR A PUBLIC WAY IS PROPOPEDE, TELEPORARY SUPPORTING SLOT
  CUTTING OR UNDERPINNING IS REQUIRED. CONTRACTOR SHALL PREPARE
  AND SUBMIT THOSE PLANS FOR BUILDING DEPARTMENT, ARCHITECT AND
  ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.

ALL GALWARZED METAL SHALL BE SHOP FRANED WITH ONE COAT OF DIST-ZING, ODER FRANER OVERFACE, UNLESS NOTED OTHERWISE. PAINTED TO MATCH ADJACENT SURFACE, UNLESS NOTED OTHERWISE. PROVIDE AND INSTALL ALL FLASHING AND COUNTER FLASHING ITEMS TO COMPLETE A MITTERPROPOR CONDITION. SHEET METAL AND MISCELLANEOUS METAL SHEET METAL WORK SHALL PROVIDE COMPLETE WEATHER WATERPROOF CONNECTIONS.

PROVIDE AND INSTALL ALL FLASHING AND COUNTER FLASH TO COMPLETE A WATERPROOF CONDITION.

SIGN 8: DOORS, WHOOMS, AND GLASS
MICLIDES, TRANSINING AND INSTALLINION OF ALL DOORS
AND WINDOWS, CLASS, AND GLAZING AND ALL RELATED WORK,
AND WINDOWS, CLASS, AND GLAZING AND ALL RELATED WORK
AND THE DRAWNING AND STREET AS

DITENOR DOORS: EVERY EXIT DOOR SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. SPECIAL LOCKING DEVICES SHALL BE OF AN APPROVED TYPE.

- FOR SHEET METAL AND MISCELLANEOUS THERMAL AND MOISTURE PROTECTION.

METAL SEE DIVISION

THE CONTRACTOR SHALL COMPIRAL WITH AND OBTAIN PERMIT FROM THE STATE OFFICE, DWISION OF INDUSTRIAL SHETTY, FOR THE CONSTRUCTION OR DEMOLITION OF AMY STRUCTURE OR SCAFFOLDING IS MORE THAN 3 STORIES OR 36 FEETS IN HEIGHT.

ALL WORK SHALL BE MACHINED ON HAND-SHARED, SHAPE EDGES AND SPLANTES REJOYED, AND COMPLIENT PREPARED FOR HANSH. FITTING AND HANGING OF DOORS.

(A) EACH DOOR SHALL BE ACCUPATELY CUT, TRIMMED, AND THE TOTAL STREET THE PROPERTY CUT, TRIMMED, AND THE PROPERT

PROVIDE PROPER EXPANSION SCORING AS INSTRUCTED BY MANUFACURER, UNLESS NOTED OTHERWISE.

CITESJAM BOJARD

AS PER CAUTORNAN BUILDING CODE AND LOCAL CODES.

OFFISJAM BOJARD CONTRACTORS SHALL BE RESPONSIBLE TO APPROVE COMMITTEN OF WOOD FRAMING TO ENSURE THAT IT IS PROPERLY DECITED AND PROOF POR OFFISJAM BOJARD INSTITULTION.

A, ORE-HOUR MULBORD: 5/8 NOT INCONESS, TIPE X
A) ORE-HOUR MULBORD: 5/8 NOT INCONESS, TIPE X
D, MULBORN MULBO S/8 NOT INCONESS WITER RESSINAT,
O, RESTROOL MULES, PAINT DOES 5/8 NOT OFFSUM BOMED,
UMLISS OFFERING MOTE DOES 5/8 NOT OFFSUM BOMED,
UMLISS OFFERING MOTE DOES 5/8 NOT ROTED BY
MANUFACTURES.

ALL SYLEROR BOORS AND WINDOWS TO BE INSTALED WITH WEATHER STRIPPING.

ALL SLIDNING WINDOWS AND DOORS TO BE INSTALED WITH SLIDNING SCREENS.

DOOR STOPS SHALL BE INSTALLED FOR EACH DOOR.

SLOVE AND DRAFT CONTROL. DODRS REQUIRED TO HAVE SHOKE AND DRAFT CONTROL ASSEMBLES SHALL BE PROVIDED WITH A GASKET SO INSTALLED AS TO PROVIDE A SEAL WHERE THE DOOR MEETS THE STOP ON BOTH SIDES AND ACROSS THE TOP.

ALL GLASS MUST COMPLY WITH U.S. CONSUMER PROTECTION COMMISSION REQUIREMENTS.

GLASS DOORS, ADJACENT PANELS AND ALL GLAZED OPENINGS WITHIN 18" OF THE ADJACENT DOOR, WHOSE LEAST DURKISON IS GREATER THAN 18", SHALL BE OF GLASS APPROVED FOR IMPACT HAZARD PER CALIFORNIA BUILDING COOL

- BACKFILL AND FILL MATERIAL TO BE PROPERLY PLACED AND DAMPENED AND SOLUDLY COMPACTED TO A 90% RELATIVE DENSITY OR AS REQUIRED BY THE SOIL REPORT.
- EXCAVATIONS TO BE FREE OF WATER AND DEBRIS
- GRADING AND DRAINAGE EQUIPMENT SHALL BE ADEQUATE FOR DRAINAGE TO STREET CURB AND WATER SHALL FLOW AWAY FROM BUILDING AT 25 SLOPE MIN.

DOOR SHALL OPERATE FREELY, BUT NOT LOOSELY, WITHOUT STICKING OR BINDING WITHOUT HINGE BOUND CONDITIONS; AND WITH ALL HARDWARE PROPERLY ADJUSTED AND FUNCTIONING. CLEARANCE AT THE LOCK AND HANGING STILES AND AT THE FOTOS SHALL NOT EXCEED 1/8". CLEARANCE AT THE BOTTOM SHALL BE ADJUSTED FOR PINNS I LOOR COMERING SCHEDULED, INCLUDING CHEPETING. EACH DOOR SHALL BE ACCURATELY CUT. TRIMMED, AND FITTED TO ITS RESPECTIVE FRAME AND HARDWARE WITH DUE ALLOWANCE FOR PAINTER'S FINISHES.

- FOR ANY TRENCHES OR EXCAVATIONS 5 FEET OR MORE IN DEPTH, INTO WHICH A PERSON IS REQUIRED TO DESCEND, THE CONTRACTOR SHALL OBTAIN NECESSARY PERMIT FROM STATE OFFICE, DIVISION OF INDUSTRIA SAFETY.

PANTING CONTRACTORS SHALL BE RESPONSIBLE TO APPROVE COMOTION OF GPESUM BOARD TO ENSURE THAT IT IS PROPERLY APPLED AND REJOY FOR PAINT COLUMN THAT IT IS PROPERLY APPLED AND REJOY FOR PAINT COLUMN THAT IS A TRANSPORTED TO A

AS SPECIFIED ON PLAN, OR APPROVED BY ARCHITECT OR OWNER PROTECTED AGAINST PAINT

INSTALL ROOPNS AND WALL FLASHING FER MANUFACTURER'S SOURCES, MANUFACTURER'S SOURCES, MANUFACTURER'S SOURCES, MANUFACTURER'S MANUFACTURERY SOURCES SOUR

GUARANTEE: MAINTAIN ROOF AND FLASHING IN A WATERTIGHT CONDITION FOR 5 YEARS MINIMUM FROM DATE OF COMPLETION

- RETAINING WALLS, IF ANY, SHALL BE PROVIDED WITH APPROVED BACK DRAIN STORM ACCEPTAGL DEWANCE SHALL BE CONNUCCTED TO THE STREET BY MAY ACCEPTAGE AWARDE SHALL BE CONNUCCED TO THE FOR LANDSCAPING REQUIREMENTS. STE IAMPOORTM
- SEE GENERAL NOTES ON APPROVED STRUCTURAL DRAWINGS AND DETAIL PLANS.

AND O

ALL WOOD AND METAL SURFACES EXCEPT AND 2 COATS PURE PREPARED PAINT. EXTERIOR SIDING: 2 COATS OLYMPIC ST

ALL WOODWORK INCLUDING DOORS, EXCEPT KITCHEN CABINETS: 1
COAT ENAMEL UNDERCOAT AND 1 COAT EGGSHELL ENAMEL FOR FUL
COVERAGE. ALL OTHER WALLS: 1 COAT PIGMENT WALL SEAL AND 1 COAT WASHABLE WALL PAINT FOR FULL COVERAGE. WALLS AND CEILINGS IN KITCHENS AND BATHS: 1 COAT PIGMENT WALL SEAL, 1 COAT ENAMEL UNDERCOAT, AND 1 COAT EGGSHELL ENAMEL.

HEN CABINETS 1 COAT WOOD STAIN AND 2 COATS CLEAR GLOSS

CARPETING, CERAMIC TILES, VINYL, ETC., INSTAINSTRUCTED BY MANUFACTURER.

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  RECESSION SHALL COMMITTED THE RESPONSE IT OF ALL COMMISS.

  COSTS OF ALL COMMISS. IN THE EVENT THERE ARE FOUND DISCREPANCIES, OR AMBIGUITIES IN, OR OMISSIONS FROM THE SPECIFICATIONS OR DRAWNOS, OR SHOULD THERE BE ANY DOUBT AS TO THEIR MEANING, THE ARCHITECT SHALL NOTIFIED IN ORDER TO PROVIDE A WRITTEN CLARRICATION.
- TOR ALL SHOP DRAWNES, THE CONTRACTOR SHALL REFER HERT MO CHECK TO VERRY ALL RELD MESCHERANTS MO SHALV SHAMI TO IT MENUTECH WITH SUCH PROMPTIESS, AS TO CAUSE MO DELYN IN HES STANDAMENT SHALVEN SHALVEN SHALVEN SHALVEN SHALVEN SHALVEN AND APPORT WITH RECOVERY PROMPTIESS. SOLDT SHALVEN AND APPORT WITH CONFORMANCE WITH THE INFORMATION OW IN THE CONTRACT CONCULENTS.
- THE ARCHITECT DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCY, AND NO PROVISIONS OF THE CONTRACTOR FOR SHALL RELIEVE THE CONTRACTOR AND MAY USEINT DUE TO MICLIFERENCE, NODMETERINGE OR ERRORS OF DIMESSION OR COMMISSION OF THE CONTRACTOR AND

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CONTRACTOR SHALL BE RESPONSEE FOR ARRANGING THE REQUIRED INSPECTION BY LOCAL AUTHORITIES. WHERE CONTINUOUS INSPECTION ANY BE REQUIRED, A RECISETED DEPUT INSPECTION, APPROVED BY THE LOCAL BUILDING DEPARTMENT, SHALL BE EMPLOYED BY THE CONTRACTOR.









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н т 140 W. VALLEY BLVD., STE 215, SAN GABRIEL, CA 91776 PH: 626-571-8000 E: simon.lee@slarch.com

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ORASP THE OPENING HADDIMEN HAT ARE HAND ACTIVATED AND WHICH ARE
OPERABLE WITH A SINGLE EFFORT BY LEVER
PUSH- PULL ACTIVATING BARS, OR OTHER
PASSAGE WITHOUT REQUIRING THE ABILITY
RE. JRFACE-MOUNTED FLUSH BOLTS AND WHEN EXIT DOORS ARE USED IN PAIRS BOLTS ARE USED, THE DOOR LEAF HAWNE IN DOOR KNOB OR LEAF HAWNE NO DOOR KNOB OR LEAF SHALL NOT TON

S TO MONDUM, HOTEL OR MOTEL UNITS SHALL OPERATE SHALLARY, TO E. ECCETT HAN MEDI BOLL AND MUNICIPANE OPERATION IS GET MOTE AND MONDOWN OF THE MOTE AND MODEL OF THE MODEL OF TH

)—ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN AND 44° ABOVE THE FLOOR AND TO ALSO COMPLY WITH SECTION -309.4.

MICH INSTALLO, DUT DOORS SHALL BE CAMBALL OF OPENIOR SO THAT THE CLEAR WORTH OF THE CLEAR WORTH OF THE ANGEL OF THE CAMBALL OF THE ANGEL OF THE CAMBALL OF THE COORS SHALL PROVIDED AND AN ANGEL OF SO DECESTED FROM IN THE COORS SHALL PROVIDED A LAW COUNTY OF THE COORS SHALL PROVIDED A

H OF THE LEVEL AREA ON THE SIDE TO WHICH THE DOOR SWINGS TEND 24" PAST THE STRIKE EDGE OF THE DOOR FOR EXTERIOR TO 18" PAST THE STRIKE EDGE FOR INTERIOR DOORS.

PROMOTE CLARE SPORCE OF 12" PAST STRING CROSE OF THE COOR ON THE OPPOSITE SIZE FOR WHICH THE COOR SPANSE THE COOR IS CRUPPED WITH BITE FLOOR OF LAWRING SALL EN LOT LAWS THAN 1/2" LIMEST THAN THE THESPOLD OF THE COORNIN, SEC 30-30(1)).

THE COOR DETEX AND A STARE OF A SALOE FROOF DIACUSLISE, THE LAWRING NEED NOT HAVE A LENGTH OF 80".

HE GETTIM OF OF ALL DOORS DEETS AUTOMATIC AND SCIONS SHALL WARE SCIONS AND HE COOK OF SECRETARY OF A SCION SHALL WARE SCIONS SHALL ORDERED A FINE OF SECRETARY OF A SCION SHALL WARE SCION SHALL ORDERED A SCION SHALL WARE SCIONALD WHITE COOK SHALL WARE SCIONALD SHALL SHAL

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BORDER 12" WIDE AT THE LEVEL P AND EACH SIDE APPROXIMATELY RUCTED BETWEEN THE FACE OF GROOVED BORDER AT THE LEVEL

A COME AND SMALL MANK, A DETECTABLE, WANNER THAT CERTISKS HE FILL MANK THAT CERTISKS HE CONSIST OF ANALOGY TRANSPORT DAMES WITH A DIMETER OF NORMAL CO. A THE STORY THAT CERTISKS HE CONSIST OF ANALOGY TRANSPORT OF ANALOGY TRANSPORT OF ANALOGY THAT CERTISKS HE FILL MANK THAT CERTISKS HE MANK THAT CERTISKS HE FILL MANK THAT CERTISKS HE FILL MANK THAT CERTISKS HE FILL MANK THAT CERTISKS HE MANK THA

CURB RAMPS SHALL BE LOCATED OR OBSTRUCTION BY PARKED CARS.

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ALL CORRESPONDEM NAMES SERVING PROMOTE DITRANCES SHALL BE A MANUAL WIDTH OF 45.

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AT BOTTOM AND INTERMEDIATE LIMENOS. THE WOTH SHALL BE AT LEAST THE SIGNEY OF RECIDING THE WHAT SHALL BE AT LEAST THE SIGNEY OF AN THE AND SHALL BE AN A LEAST AND THE SIGNEY OF SHALL BEAK A DIMENSON AND THE SIGNEY OF FAME AND OF NOT LESS THAN 72' TO ACCOMMODATE THE HAMBOUL EXTRIBOOM. THE WOTH OF THE LANDING SHALL EITED AP PAST THE STRINGE EDGE OF AN TODGE OF DATES.

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AT BOTTOM AND INTERMEDIATE LANDINGS, THE WOTH SHALL BE AT LEAST THE SAME OF BELLDHEST PART OF BELLDHEST.

A DESCRIPTION OF THE WARD SMALL WAS A MANDER ON WE THE DESCRIPTION OF THE WARD SMALL SMALL

WHERE THE RAMP SURFACE IS NOT BOUNDED BY A WALL OR FENCE AND THE RAMP EXCEEDS 10' IN LENGTH, THE RAMP SHALL COMPLY WITH ONE FOLLOWING REQUIREMENTS:

A GUIDE CURB A MINIMUM OF 2" IN HEIGHT SHALL BE PROVIDED AT EXCH RAMP;
A WHEEL GUIDE RAIL SHALL BE PROVIDED, CENTERED 3"+1"
ABOVE THE SURFACE OF THE RAMP.

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A DOOR NOT LESS THAN 3" IN WIDTH AND NOT LESS THAN 6"-8" IN HORSHIP THE INSTITUTION OF SHORT NOTES THAN 4" IN HORSENSEL THE INSTITUTION OF SHORT NOTES THE INSTITUTION OF SHORT NOTES THAN 4" IN HORSENSEL THE INSTITUTION OF SHORT NOTES THAN 4" IN HORSENSEL THE INSTITUTION OF SHORT NOTES THAN 4" IN HORSENSEL THE INSTITUTION OF SHORT NOTES THAN 4" IN HORSENSEL THE INSTITUTION OF SHORT NOTES THE INSTITUTION OF SHORT NOTES THAN 4" IN HORSENSEL THE INSTITUTION OF SHORT NOTES THE INSTITUTION OF SHORT NOTES THE INSTITUTION OF SHORT NOTES THE

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PROMOE MINIMUM VERTICAL CLEARANCE OF 9"-8" AT ACCESSIBLE PASSENGER LOADING ZONES AND ALONG AT LEAST ONE VEHICLE ACCESS ROUTE TO SUCH AREAS FROM SITE ENTRANCES AND EXITS.

KS AND SIDEWALKS SHALL HAVE A CONTINUOUS COMMON FACE, NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES EVEL EXCEEDING 1/2".

SUPFACES WITH A SLOPE OF 6% OR GREATER GRADIENT SHALL BE SUP-RESISTANT.

DICEA MED OF MALE SHALL EDIDED 24" TO THE SOOT OF THE STREET EDIDE MALES, SERVICE OF MAN OF THE SHALL SHALL

TOTALLE MAY AS OF REPORTS, N. A. CONSTICULOS PACE, A. EDIVINACIO DO CIPILIDO, N. A. CONSTICULOS PACE, A. E. SOLO DA CONTROLO SE PACE, DE SOLO DA CONTROLO DE CONTR

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LKS AND SDEWALKS SHALL BE 48" MINIMUM IN WIDTH.

BER CHANGES IN LEVEL NOT EXCEEDING 1/2" OCCUP, THEY SHALL BE

VELED WITH A SLOPE HO GREATER THAN 1:2, EXCEPT THAT LEVEL

MINES NOT EXCEEDING 1/4" MAY BE VERTICAL.

ABRUET CHANGES IN LEREL ALONG MAY ACCESSIBLE ROUTE EXCEEDING 1/2"
WHAT AND SOEMMAY SHEAFACES WITH AS EXP-RESISTANT AS FOLLOWS:
A LIBERT, A SLEP-EXISTANT AS THAN GREGORIED SHALL BE
AT LIBERT, A SLEP-EXISTANT AS THAN DESCRIBED AS A BEDIUM
SALTED FROST.

WHICH TO SOUR IN THE DESCRIPTION OF TRANSLE OF ANY THAN EXPOSEDS IN SECTION ITS CONTINUE TO THE PROVISIONS OF THE PROVISIONS OF THE PROVISION OF THE PROVISION OF THE PROVISION OF THE PROVISION OF THE PROVIDE TH

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GENERALLY, IN A SHOLE SOFE PAPER, MITH A MANUAU OF SHRFACE
WARRING AND CHOSE SEES SEE.

1. MOREOMER, OF CHEST SHALL MAY TO EXCEED 1 VERTICAL TO 1.2

1. PROVINGING FROM HAMPED TO MAYCE, EXCEPT THAT THE LOWER DO OF
EACH CHEST PAPER AND HEATHER, OR STREETS SHALL BY
EACH OF THE TRANS HAMPED CHITTER, ROAD SHRFACE, MANUALLY
LEAD WITH A COPY OF THE CHEST AND CHEST

2. MANUAU SLOPES OF ADDITIONAL CHITTER, ROAD SHRFACE, MANUALLY
LEAD WITH A COPY OF THE YEAR OF SHITCH AND THE SOME
COPY THE WARRED OF KAMED SHALLES SHALL NOT DOZEDD 1

VERTICAL TO 10 DOZEDDER.

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HANDICAPPED REQUIREMENTS
TITLE 24

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THE ACCESSIBLE ROUTE OF TRAVEL SHALL BE THE MOST PRACTICAL DIRECT ROUTE BETWEEN ACCESSIBLE BUILDING ENTRANCES, ACCESSIBLE SITE FACILITIES, AND THE ACCESSIBLE ENTRANCE TO THE SITE.

LESST ONE ACCESSIBLE ROUTE WITHIN THE ROMANDEY OF THE SITE SHAU F PROVIDED FROM PUBLIC TRANSPORTATION STOPS, ACCESSIBLE PARSON OF ACCESSIBLE PARSON FOR LOADING ZONES, AND PUBLIC STREETS OR DEBMANS, TO THE ACCESSIBLE BULDONS DETRANCE THEY SERVE. THE VIZSENSE ROUTE SHALL TO THE MANAGEM DETRAY EXPORTS.

ESSIBLE PARKING

PROVIDE \_ DISABLE PARKING SPACES AS REQUIRED BY TABLE 118-208.2

PARKING LOT.

IN BUILDINGS WITH MULTIPLE ACCESSIBLE ENTRANCES WITH ADMOENT PARKING, ACCESSIBLE PARKING SPACES SHALL BE DISPERSED AND LO CLOSEST TO THE ACCESSIBLE ENTRANCES. ACCESSIBLE PARKING SPACES SERVING A PARTICULAR BUILDING SHALL BE LOCARED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING TO AM ACCESSIBLE ENTRANCE (AS NEAR AS PRACTICAL TO AN ACCESSIBLE ENTRANCE).

WHERE SINGLE ACCESSIBLE PARKING SPACES ARE PROVIDED, THEY SHALL IN WIDE AND OUTLINED TO PROVIDE A 9' PARKING AREA AND A 5' LOAN'NOR AND UNLOADING ACCESS ASSLE ON THE THE PASSENGER SIDE OF THE VEHICLE.

ONE OF EVERY EIGHT ACCESSIBLE SPACES, BUT NOT LESS THAN ONE, SHALL BE SERVED BY AN ACCESSIBLE ARILE 96" WIDE MINIMUM AND SHALL BE DESIGNATED "VAN ACCESSIBLE", LAL SUCH SPACES MAY BE GROUPED ON ONE LEVEL OF A PARKING STRUCTURE. WIEN MORE THAN ONE ACCESSIBLE PARRING SPACE IS PROVIDED, IN LEU OF PROVIDEM A 14' WILE SPACE FOR EACH PARRING SPACE, TWO SPACES CAN BE PROVIDED MINHA A 22' WINE BEACH LIBED TO PROVIDE A 9' PROVIDED WEST, ON LOCHY SIZE OF A 5' (LADING AND UNLAUDING ACCESS ASSLE IN THE MESSAGE.

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14. CONSIDER PARRIED SANCE THAN OF METHODA CHEMINATOR AND CONSIDER AND CONTROL TO CONTROL THAN THE CONTROL THAN THE CONTROL TO CONTROL THAN THE CONTROL THAN TH

ALL ENTRANCES TO AND EXITS FROM AND VERTICAL CLEARANCES WITHIN PARKING STRUCTURES SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 8-2" TO ANY BEAM, CELLING, PIPE ETC. WHERE REQUIRED FOR ACCESSIBILITY TO ACCESSIBLE PARKING SPACES. PERSONAL WINS WHICH ARE ACCESSIBLE TO REDULE WITH DEBUTINES SALE, BEFRONDED THAN LOOK ACCESSION. PROMICE SALE OF THE PROVIDED THAN LOOK ACCESSION FROM SALE AS RELEVANT OF THE PROVIDED THAN LOOK ACCESSION FROM THE ACCESSION FROM THE PROMICE ACCESSION FROM THE A IN EACH PARKING AREA, A BUMPER OR CURB SHALL BE PROVIDED AND LOCANED TO PREVENT ENCRONCHMENT OF CARS OVER THE REQUIRED WIDTH OF WALKWAYS.

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DUTH PARKAR SPACE RESERVED FOR PERSONS WITH DOMBNITES. SHALL IS CONTINUED AN A POSSION DUTH SHAWNERS WERE DESCRIBED AN A POSSION DUTH SHAWNER WERE DOMBNITED AN A POSSION DUTH SHAWNER WITH CONTINUE AND A POSSION DUTH SHAWNER WITH CONTINUE AND A POSSION DUTH SHAWNER SHAWNER SHAWNER SHAWNER AND AN AREA HAVE OF THALE SHAULE POSSION AT A MANIMUM HEIGHT OF BUT FOUND OF THE SIGN TO THE PARKARS SHACE PARSISTS GOVER.

SIAN TO DESTITY ACCESSEE PARAMA SIMES MAY LLO BE CONTROL ON MULL AT THE ATTERNATION FOR PROMISE STATE AT A MANUAL RECORD C. S. FROM THE PARAMA SPACE FAISHED ORDER, ORDING ON SIDEMAL. MAY ACCESSEE PARAMA SPACES SHALL HAVE AN ADDITIONAL SON STITM VAM ACCESSEE TO PARAMA SPACES SHALL HAVE AN ADDITIONAL SON STITM VAM ACCESSEE TO PARAMA SPACES SHALL HAVE AN ADDITIONAL SON STITM VAM ACCESSEE TO PARAMA SPACES SHALL HAVE AN ADDITIONAL SON STITM VAM ACCESSEE TO PARAMA SPACES SHALL HAVE AN ADDITIONAL SON STITM VAM ACCESSEE TO PARAMA SPACES SHALL HAVE AN ADDITIONAL SON STITM VAM ACCESSEE TO PARAMA SPACES SHALL HAVE AN ADDITIONAL SON STITM VAM ACCESSEE TO PARAMA SPACES SHALL HAVE AN ADDITIONAL SON SHALL HAVE AN ADDITIONAL SHALL HAVE AND ADDITIONAL SHALL HAVE ADDITIONAL SHALL HAVE AND ADDITI

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SITE DEVELOPMENT OF GRADING SHALL BE DESIGNED TO PROVIDED ACCESS TO ALL ENTRANCES AND EXTERIOR GROUND FLOOR ECITS, AND ACCESS TO NORMAL PATHS OF TRAVEL, AND WHERE INCESSARY TO PROVIDE ACCESS, SHALL INCORPORATE PEDESTRIAN RAMPS, CURB RAMPS, ETC.

WHEN A BUILDING OR PORTION OF A BUILDING IS REQUIRED TO BE WACKESSBLE. AN ACCESSBLE ROUTE OF TRAVEL SHALL BE PROVIDED TO PORTIONS OF THE BUILDING, TO ACCESSBLE BUILDING ENTRANCES, AND BETWEEN THE BUILDING AND THE PUBLIC WAY.

ARCHITECT:

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THE CONTROL OF ELETRICAL WAS COMMUNICATED STEP RECEPTION.

1. OPERIOR SHALL OF STEP AND THE FLORE OF THE FLOR NOTECTION JAPS MATES TOTA HE FERRING HEMBERT SHALL ALSO BE MATES TOTAL HEMBERT SHALL ALSO BE SERVICED.

A. A SECTION WITH HE TRANSPORT SHALL SHE SECOND AND AND SOFT SHALL SHE HAVE STOOD AND AND SOFT SHE TAKEN SHE COLORED LIGHT SOURCE.

B. A CLEAR ON NOMEN, WHITE COLORED LIGHT SOURCE.

B. A CLEAR ON NOMEN, SHALL SHE HEMBERT OF A MANAMA OF THE TRANSPORT SHALL SHE HAVE SHOWN AND AND SHALL SHE PROJECTION.

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APPROVED NOTIFICATION APPLIANCES FOR THE HEARING IMPARED SHALL
INSTILLED IN ACCORDANCE WITH THE REPONSIONS OF MFPA 720 IN THE
FOLLOWING AREAS: CH 60, NFPA SEC 2-4-9.1. NO PLACE IN COMMON CORRIDORS OR HALLWAYS IN CH VISUAL ALARM SIGNALING APPLIANCES ARE REQUIRED SHALL MORE THAN 50' (15 METERS) FROM THE SIGNAL. 4. WHICH PRISED CHRANCITES OR SYMBOLS ARE USED, THEY SWILL COMPRISE OF THE CHARMAGE OF SYMBOLS ARE USED, THEY SWILL COMPRISE OF THE CHARMAGE CHARMAGE OF SYMBOLS SWILL BE A UNMALLED OF SYMBOLS SWILL BE A UNMALLED OF SYMBOLS SWILL BE A UNMALLED OF 5/6". A week relauseful incompraction is emploted for goods and special and for the compraction of the compression of the compraction of the compraction of the compression CHARACTER AND SHIRES ONL COPERAGE WITH HEIR BACKGOOMS.

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ONLA LIGHT BACKGOOMS. SEE 118-703.5.1.

ONLA CHARTER AND NAMESTERS ON SOOK SHALL BE SEED ACCORDING TO THE

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THE PROTOCAMA THE ERRORE DIMENSION OF THE PRITICIONAL
SHALL BE A MINIMAN OF ST. N. FEIGHT.
LITTERS AND NAMERIS ON SOME SAML, HAVE A WOTH-TO-HEIGHT ANTO
OF BETHELD MS SAMD 11 AND A STOKE WOTH-TO-HEIGHT ANTO
155 AND 110. ALL BULDING ENTRANCES THAT ARE ACCESSIBLE TO AND USUALE. BY PERSONS MIN DOSBUTTES AND AT CORRY MANCE AMERICAN ADVANCE OF A CORRY TO AND AT CORRY TO AND ATTEMPT AN IF THE CLEAR FLOOR SPACE ALLOWS PARALLEL APPROACH BY A PERSON IN A WREED-WAR, THE MAXIMUM HIGH SIDE RRUCH ALLOWED SWILL BE 68 "AND FOR A REACH DEPTH OF 10 INCHES S SHOWN IN FORDIES" 118—203.1. IF THE SIDE REACH IS OPEN AN FORSTRUCTION, THE REACH AND CLEARACES SHALL BE AS SHOWN IN FORDER 118—203.2.2. SEI 118—203.2.2. SEI 118—203.2.2. THE MANAGE ALEAS WORTH FOR STACE, WINDLESSES SWAL BE 52' AT A PORT (2" WANNEL METH) AND 35' CONTINUOUSLY.

AT A PORT (2" WANNEL METH) AND 35' CONTINUOUSLY.

FORET (1" BE ANNEL METH FOR SWALL METH) AND 35' CONTINUOUSLY.

FORET (1" BE ANNEL METH FOR SWALL METH) AND SWALL BE 65' ET BE 66' TORWARD FEBOL SWALL BE THE MINIMUM CLEAR WIDTH REQUIRED FOR A WHEELCHARR TO TURN AROUND AN OBSTRUCTION SHALL BE 36" WHERE THE DESTRUCTION IS 48" OR MORE IN LENGTH AND 42" AND 48" WHERE OBSTRUCTION IS LESS THAN 48" IN LENGTH. CONTRACTED 0840E 2 BRAILE SHALL ES LISED MHERDER BRAILE SYMBOLS. ARE SPECIFICALLY REQUIRED IN OTHER PORTIONS OF THESE REGULATIONS. SOUTS SHALL BE 1/10° ON CENTERS IN EACH CELL WITH 2/10° SPACE. BETHERN CELLS. DOTS SHALL BE RAISED A MINIMUM OF 1/40° ABOVE THE BACKROVAND. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 599b. EMPLOYEE AREAS SHALL COMFORM TO ALL REQUIREMENTS OF THE OFFICE THE STATE ARCHITECT/ACCESS COMPLIANCE SECTION IN THE CALIFORNIA BUILDING CODE, PLUMBING CODE, AND ELECTRICAL CODE. USED, THEY SHALL COMFORM 8. RELIERCE OF LIMANNIAL IN REAL POIS ON SYSTEM DIMMANS.

9. MERIE PILE CRITICION OF THE MANDELS, ME DESCRIPTION OF THE FLORE AND THE CRITICION OF THE FLORE AND THE PILE CRITICION OF THE PILE CRITIC GE ALLORANCE & RECH BANGES

THE BANNAU CLEAR FLOOR OR GROUN SYACE REQUIRED TO ACCOMMODATE
A SWALE CRATINGHEN WEELENAW AND OCCUPANT IS 50° BY AN' THE
BANNAU CLEAR FLOOR OR BROWNED SYACE TOWN WELLOWES MAY BE A
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SYACE REQUIRED UNCER SOME GABLETS. IN THE AREA

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FLOOR WHERE STAMMANS OCCUR OUTSIGE A BILLIUMS, THE UPPER APPROACH AND ALL LOSS SHALL BE WHEREOUT PAYS AND ALL THEAD SHALL BE WHEREOUT PAYS AND ALL THEAD SHALL BE WHEREOUT PAYS SHALL BE WHENCH PAYS SHALL BE EACH STREAM, AMADER TO AM AGE FOR ENCOURAGE SEMI-MADRALS SHALL EXECUTE AN AMADIA OF JET ERRORS THE RESIDENCE MADRALS SHALL EXECUTE A MARGINA OF JET ERRORS -MADRALS SHALL EXECUTE A MARGINA OF JET ERRORS -MADRALS SHALL EXECUTE A MARGINA OF JET ERRORS -MADRALS SHALL EXECUTE A MARGIN POR JET ERRORS -MADRALS SHALL EXECUTE A MARGIN POR JET ERRORS -MADRALS SHALL EXECUTE A MARGIN POR JET ERRORS -SHALL SHALL SHAL CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT RECUIRE TIGHT GRASHING, PUNCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GRENTER THAN 5 POUNDS OF FORCE. CLEAR FLOOR SPACE COMPLYING WITH SECTION 118-308.2 THAT ALLOWS A FORMAND OR PAGALLEL APPROACH BY A PRESON USING A WHEELCHAIR SHALL BE PROVIDED AT CONTROLS, DISPENSERS, RECEPTACLES, AND OTHER COMPARENCE. TROLS & OPERATING MECHANISMS

CONTROLS AND OPERATING MECHANISMS REQUIRED TO BE ACCESSIBLE BY SECTION 118-308 SWALL COMPLY WITH THE REQUIREMENTS OF SECTION 118-308. THE LIPERS APPROACH AND THE LIPERS TREAD OF EACH STAME SHALL BE MARKED BY A STREM CALEBAY COMPANION TO AGET HEAVILLE TO MAD NOT MORE THAN 4" WIDE PLACED PARALLA. TO AND NOT MORE THAN 5" CALEBAY COMPANION TO AGET HEAVILLAND THAN 18" CHE OF MATIBAL THAN 15" AND NOT MORE THAN 15" AND THE STREM SHALL BY THE STAME. THE HOHEST AND LOWEST OFERBALE PART OF ALL CONTROLS, DISPOSICESS, AS OF THE FLOOR BUT NOT LOWER THAN 15° F FORWARD APPROACHED AND WITHIN 64° THE FLOOR BUT NOT LOWER THAN 15° F FORWARD APPROACHED AND WITHIN 64° THE FLOOR BUT NOT LOWER THAN 65° F SIZE, PAPPOACHED LECENORY OF THE FLOOR. VET COURN),S AND OPERATING MECHANISMS FOR KITCHEN SIMES SHALL OPERALE GROUPS, AND OPERATING MECHANISMS FOR KITCHEN GROUPS, AND OPERALE GROUPS, OF A CHANNEL CONTROLLED MECHANISMS OF A CHANNEL CONTROLLED MECHANISMS OF A CHANNEL CONTROLLED MECHANISMS OF A CHANNELS OF A CHANNEL SO OPERALE OF A CHANNEL SO OPERAL OF A CHANNEL SO OPERALE OF A CHANNEL SO OPERALE OF A CHAN THE USERVICES SHALL BE SUP-RESISTANT. THRUS SHALL A PARTED DOTE, ROUNDED, DE CHAMPERE DEVESSED EXCES, AND TO ABBIT EXCES THE ARROWS SHALL AND FRACE! THE ARROWS SHALL BE SHALL AS A SHALL AS A

IF A WALK CORSSESS OR ADDING A VEHICULAR WAY, AND THE WALKING SURFACES MEN NOT SEPRANTED BY CHESS, SOURCES, OR OTHER LIDENTS BETWEEN HE PRESISTEM MENS AND VEHICLING AREAS, THE BRUNDAMY BETWEEN HE AREAS SHALL DEFINED BY A COMMUNIOUS DETECHABLE WARN WHICH IS 36" WIDE, COMPLYING WITH SECTION 118—403.5.

MANUS
TORONTO SHALL HAVE HANDRALS ON EACH SOE, AND DEEP STARRAY
TESSIAMEN TO SHE THAN BEEN IN WORTH SHALL BE OFFORDED WHITH
TESSIAMEN ONE REPUBBLISHE HANDRAL BY OFFORD WORTH
TESSIAMEN CHANGE THAN BE SHALED APPROXIMATELY EXCURATE
THE EDITOR WOTH OF THE STARRAY.

T-4.2

OWE PLIL INVOISTRUCTED SIDE OF THE CLEAR FLOOR COR-FOR A WHELCHAM SHALL ALDINO OR OVERLAP AM ACCESS ALDION MOTHER WHELCHAM CLEAR FLOOR SPACE. IF A GROUND SPACE IS LOCATED IN AN ALCOYOR OF OTHERWISSION OR PART OF THREE SIDES, ADDITIONAL MANEUVERING CLE PROVIDED.

THE SPACE REQUIRED FOR A WHEELCHAIR TO MAKE A 180 DEGREE A CLEAR SPACE OF 60" DIAMETER OR A T-SHAPED SPACE.

4. ORGETS MONETO WITH THESE LEGIONS CREEKS AT OR BEIOLO, 27 FEMBLE COMMON TO MAKE THE ANALYSIS OF THE COMMON TO MAKE THE ANALYSIS OF THE COMMON THE COMMON

ANY OBSTRUCTION THAT OVERHANGS A PEDESTRIAN WAY SHALL BE A MINIMUN OF 80" ABOVE THE WALKING SURFACE AS NEJSURED FROM THE BOTTOM OF THE OBSTRUCTION.

ERE A GUY SUPPORT IS USED PARALLE. TO A PATH OF TRAVEL,
YLUDING, BUT NOT LIMITED TO, SIDEMALKS, A GUY BRACE, SIDEMALK GUY
SIMILAR DEVICE SHALL BE USED TO PREVENT AN OVERHANCING
STRUCTION AS DEFINED.

LA VALLEY GARDEN PLAZA NEW COMMERCIAL BUILDING

A JARRIET CHANGES IN LEGG. JOSEPT RETREZA MANG OS SIDENAL AND AL ALACONT STREET OF REPREMENDATIONS AS IN A CHIEFOLO JAMASON. SOCIAL SIG. PLANTES OF PLANTES CHANGES CHOOLING IN CONTROL OF A ALACONT TO MANG. CLOSE SPACETOR ALL CITEST IN MANGE IN A STREET OF MANGE IN CONTROL OF A POTENTIAL DIGIT. STREET OF MANGE IN CONTROL DIGIT. SIGNATURE CLOSE IN CONTROL CHIEFOLOGY OF A POTENTIAL DIGIT. SIGNATURE CLOSE IN CONTROL CHIEFOLOGY OF MANGE IN STREET CHIEFOLOGY OF MANGE IN STREET CHIEFOLOGY OF MANGE IN ADMINISTRATION OF MANGE IN CONTROL CHIEFOLOGY OF MANGE IN ADMINISTRATION OF MANGE IN ADMINISTRATION OF MANGE IN MANG



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very portion of every building in which are installed seats, tables, erchandise, equipment, or similar materials shall be provided with usles leading to an exit.

ARCHITECT: s Α

2. COMMONDES STANDARD OF 40 OF 125S SWALL NOT BE LIZES THAN 35° W WINTON.

3. COMMONDES THAT DECEMBER 20° W LIDICITIS SWALL NOT BE A MANGE, A MINIORIA CLEAR WINTO OF 50°;

4. MAYE, A MINIORIA CLEAR WINTO OF 50°;

5. WINTER, CAMP STROME OF SWALL OF STANDARD A MANGE, A MANGE, A CORTING AN OFFICE COMMON OF 40° N WINTON OF 40°;

4. MAYE, A A COTTONIO, AND OFFICE MAYER STANDARD ACCORDING TO A MANGE, A CONTRACTOR AND STANDARD AND ACCORDING TO A MANGE, A CONTRACTOR AND A MANGE, AND A CONTRACTOR AND A MANGE AND

BE LESS THAN 44" IN WIDTH.

UPANT LOAD OF 50 OR MORE SHALL NOT BE

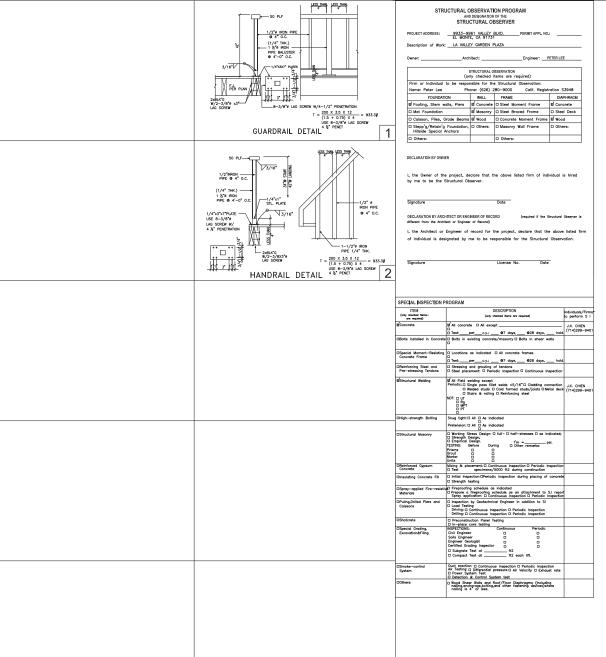
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2. DRINGS AND FOR SUPPLIES AND ACCESSED FOURTH AND ACCESSED FOR AND STATE CHARGE AND STATE CHARGE AND STATE CHARGE AND STATE CHARGE AND ACCESSED FOR ACCESSED

FLOORS AND LEVELS

1. IN BILLIONES AND FACILITIES, FLOORS OF A OVER STORY SHALL BE A
FAMION LEVEL IMPROVEMENT, OR SHALL BE CONNECTED BY FEDESTRAW
RAMPS, PASSENGER ELEVATORS, OR SPECIAL ACCESS LIFTS.

 $\mathsf{R}\ \mathsf{C}\ \mathsf{H}\ \mathsf{I}\ \mathsf{T}\ \mathsf{E}\ \mathsf{C}\ \mathsf{T}$ 140 W. VALLEY BLVD., STE 215, SAN GABRIEL, CA 91776 PH: 626\*571\*8000 E: simon.lee@slarch.com



## **GENERAL NOTES**

## GENERAL

- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITION IN THE FIELD.
- 2. CONTRACTOR SHALL VERIFY ALL DIMENSION ON THE JOB.
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LOCAL BUILDING CODES, CITY, COUNTY AND STATE CURRENTLY ADOPTED.
- FOR RODF/FLOOR ELEVATION, DRAINAGE, SLOPE, OPENING, DEPRESSION AND DIMENSIONS, SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS.
- CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING ALL STRUCTURAL MEMBERS OR AS REQUIRED FOR STRUCTURAL STABILITY OF THE STRUCTURE DIJEDING ALL PHACES OF CONSTRUCTION

### CONCRETE

CONCRETE USEDD IN THE WORK SHALL HAVE THE FOLLOWING ULTIMATE COMPRESSIVE STRENGTH AT THE AGE OF 28 DAYS -

CONDITION	CONCRETE f'c (PSI)	REINFORCING fy (PSI)	CONTINUOUS INSPECTION
CONTINUOUS FOOTING	4000	60000	REQ'D
SLAB ON GRADE	2500	60000	NOT REQ'D
RAISED CONCRETE DECK	4000	60000	REQ'D
ISOLATED PAD	4000	60000	REQ'D
CONCRETE WALL	4000	60000	REQ'D
CONC. COLUMN	5000	60000	REQ'D

- ALL CONCRETE SHALL BE STONE CONCRETE UTILIZING AGGREGATE CONFORMING TO ASTM C33, CEMENT SHALL BE TYPE | OR || CONFORMING TO ASTM C150.
- 3. MINIMUM CONCRETE COVER REINFORCING STEEL SHALL BE AS FOLLOWS: (U.N.O.) CONCRETE AGAINST EARTH (UNFORMED) --3 CONCRETE AGAINST EARTH (FORMED) --2"
- REMOVAL OF FORMS:
  SUPPORTING VERTICAL SURFACE --MIN. 2 DAYS
  SUPPORTING HORIZONTAL SURFACES --MIN. 15 DAYS
- BEFORE CONCRETE IS PLACED THE CONTRACTOR SHALL COORDINATE AND CHECK WITH ALL TRADE TO ENSURE THE PROPER PLACEMENT OF ALL SLEEVES, CURBS, OPENINGS, DEPRESSIONS, INSERTS ETC., RELATING TO THE WORK AS SHOWN ON THE DRAWINGS.
- ALL CONCRETE WITH A COMPRESSIVE STRENGTH IN EXCESS OF 2500 PSI AT 28 DAYS SHALL BE PLACED UNDER THE SUPERVISION OF A DEPUTY INSPECTOR LICENSED BY THE LOCAL BUILDING OFFICIAL.

### REINFORCING

- 1. REINFORCING SHALL BE NEW STOCK DEFORMED BARS CONFORMING TO ASTM 615, GRADE 40 (U.N.O.). WELDED WIRE FABRIC SHALL BE MADE OF COLD DRAWN WIRE AND SHALL CONFORM TO ASTM A185, LAP  $6^{\star}$  AT EDGES.
- A 185, LAP 6" AT EDGES.

  A LL BARS SHALL BE FREE OF RUST, GREASE, MILL SCALE OR ANY MATERIAL WHICH MAY AFFECT ITS BOND TO CONCRETE.
- ALL BAR BENDS SHALL BE MADE COLD.
- THE MINIMUM AMOUNT OF LAPS IS 24". OR 36 DIAMETERS IN CONCRETE, 40 DIAMETERS IN CONCRETE BLOCK

## MASONRY

- CONCRETE BLOCK UNITS SHALL BE GRADE "N" CONFORMING TO ASTM C-90, fm"=1500 PSI.
- MORTAR SHALL BE MACHINE MIXED TYPE "S" MIX BY VOLUME CONSISTING OF 1
  PART CEMENT, 4-1/2 PARTS SAND AND A MAXIMUM OF 1/2 PART LIME PUTTY OR
  DRY HYDRATED LIME. MORTAR JOINTS SHALL BE 3/8" MIN. AND SHALL BE FULL HEAD AND BED.
- GROUT MIX SHALL BE 1 PART CEMENT, 3 PARTS SAND, 2 PARTS PEA GRAVEL, AND SUFFICIENT WATER TO CAUSE THE GROUT TO FLOW INTO ALL JOINTS WITHOUT
- SECULARITION.

  GROUT POURS SHALL NOT EXCEED 5 FEET IN HEIGHT. GROUT CELLS AS NOTED ON PLANS, fo =2000 PSI MIN.
- WHEN GROUTING IS STOPPED FOR MORE THAN ONE HOUR, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE POUR OF GROUT 1-1/2\* BELOW THE TOP OF THE UPPERMOST UNIT.
- 7. VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 192 BAR DIAMETERS.

  8. CONTINUOUS INSPECTION IS REQUIRED FOR CONCRETE BLOCK WALL (U.N.O.)
- MINIMUM CLEAR COVER OVER REINFORCING --2" CLEAR FROM OUTSIDE FACE OF BLOCK AND/OR 1/2" CLEAR FROM INSIDE FACE OF BLOCK.

## STRUCTURAL STEEL

- 1. STRUCTURAL STEEL SHALL CONFORM TO ASTM A572-GR50.
- STEEL PIPE SHALL CONFORM TO ASTM A53 GRADE R.
- 3. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B ALL BOLTS FOR STEEL MEMBERS SHALL CONFORM TO ASTM A307 (U.N.O.).
- 5. FABRICATION AND ERECTION SHALL COMPLY WITH THE LATEST AISC SPECS.
- ALL FABRICATION SHALL BE DONE IN THE SHOP OF LICENSED FABRICATOR ACCEPTABLE TO THE COUNTY OF LOS ANGELES OR UNDER CONTINUOUS INSPECTION OF REGISTERED DEPUTY INSPECTOR LICENSED BY THE SAME BODY.
- ALL WELDING SHALL BE PERFORMED USING THE ELECTRIC ARC PROCESS IN ACCORDANCE WITH APPLICABLE PORTIONS OF THE "CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION OF THE AMERICAN WELDING SOCIETY."
- 8. ELECTRODES SHALL BE E70XX.
- SHOP DRAWING SHALL BE SUBMITED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION. ANY FABRICATION DOME PRIOR TO RECEIPT OF APPROVED SHOP DRAWINGS SHALL BE DOME AT THE CONTRACTOR'S OWN RISK.
- SHALL BE DUNE AT THE CONTRACTOR'S OWN MSK.

  10. CONTRACTOR SHALL PROVIDE BRACING AS REQUIRED TO MAINTAIN THE ALIGNMENT OF THE BUILDING FRAME UNTIL ALL WELDING IS COMPLETED AND / OR SLABS AND WALLS ARE POURED.

### FOUNDATION

- 1. SOIL TYPE : SILTY SAND: ALLOWABLE BEARING VALUE = 4000 PSF.
- 2. ALL FOOTING PADS SHALL BE INSPECTED BY THE SOIL ENGINEER BEFORE THE CONCRETE IS POURED.
- 3. IT IS MANDATORY FOR THE CONTRACTOR TO VERIFY THAT DIMENSIONS SHOWN ON THE STRUCTURAL PLANS CORRESPOND WITH DIMENSIONS SHOWN ON THE ARCHIRECTURAL PLANS PRIOR TO ANY CONSTRUCTION. WORK SHALL BE STOPPED
- IMMEDIATELY AND NOTIFY ARCHITECT AND ENGINEER ANY DISCREPANCIES. 4. THE FOUNDATION DESIGNED IS BASED ON THE RECOMMENDATIONS CONTAINED IN THE SOIL REPORT # 15-087-010GE DATED 6-7-2017
- AND PREPARED BY QUARTECH CONSULTANTS ALL THE RECOMMENDATIONS CONTAINED IN THE SOIL REPORT ARE PART OF THIS SPECIFICATION
- 5. SITE AND BASE PREPARATION SHALL BE PER SOIL REPORT RECOMMANDATION

## FRAMING

- ALL LUMBER SHALL BE DOUGLAS FIR AND SHALL BE STAMPED WITH A TRADEMARK OF THE FOLLOWING GRADES BY AN APPROVED GRADING AGENCY.

  - A. STUDS AND PLATES -- STUD GRADE.

    B. JOIST AND RAFTER -- #2 GRADE MIN. (U.N.O.)

    C. BEAM HEADER AND POST -- #1 (U.N.O.)
- STRUCTURAL PLYWOOD SHALL BE GRADE A.P.A. PS1-07 AND SHALL BE INTERIOR TYPE SHEATHING C-D GRADE WITH EXTERIOR GLUE. ROOF: (U.N.O.)
  - USE 5/8" PLYWOOD WITH 8d COMMON NAILS (INDEX 24/0) CDX SUPPORTING PANEL EDGES © 6" O.C. INTERMEDIATE © 12" O.C. BLOCKING REQUIRED

FLOOR: (U.N.O.)

- USE 1 1/8" PLYWOOD WITH 10d COMMON NAILS (INDEX 32/16) T&G SUPPORTING PANEL EDGES @ 4" O.C. INTERMEDIATE 912° O.C.
  BLOCKING REQUIRED

  3. ALL POST SHALL BE 4X WIDTH OF BEAM MINIMUM (U.N.O.)
- STRUCTURAL MEMBER SHALL NOT BE CUT FOR PIPES, SEWERS, ETC. UNLESS STRUCTURAL PLANS FOR ALL DUCTS, SLEEVES, ETC. INTERFERENCE WITH STRUCTURA.
- MINUSCAS.

  DIAMETER. ALL BOLTS SHALL BE 1/32" TO 1/16" LARGER THAN NOMINAL BOLTS

  DIAMETER. ALL BOLTS BEARING ON WOOD SHALL HAVE WASHERS UNDER HEAD AND

  NUTS. ALL BOLTS SHALL BE RETIGHTED PRIOR TO APPLICATION OF PLASTER,

  PLYMOOD, ETC.
- 6. LYMOUD, ELC.
  6. MAXMUM HEGHT FOR 2X4 STUD WALL IS 10°. FOR WALL HEIGHT FROM 10° TO 20° 2X6 SHALL BE USED. (U.N.O.)
  7. BEARBIG WALLS AND EXTEROR WALLS SUPPORTING LOADS FROM TWO STORIES ABOVE SHALL BE 3X4 016° O.C. (U.N.O.) 2X6 MAY BE USED IN LIEU OF 3X4.
- 8. DOUBLE JOISTS UNDER ALL PARALLEL BEARING PARTITION. (U.N.O.)
- 9. DOUBLE RAFTERS UNDER HVAC UNIT OR MACHANIC EQUIPMENT. (U.N.O.)
- 2X SOLID BLOCKING SHALL BE PLACED BETWEEN JOISTS AND RAFTERS AT ALL SUPPORTS AND MIDDLE SPAN.
- 11. FLOOR JOISTS SHALL BE BLOCKED OR CROSS BRIDGED @ 8'-0" O.C.
- EVERY WOOD STUD BEARING WALL, EXTERIOR WALL, AND INTERIOR PARTITION SHALL BE BRACED WITH 1X6 LET—IN BRACES WITH 3-8d NAILS TO EACH STUD AND PLATED AT EVERY 25 FEET OF IT LENGTH. (U.N.O.)
- ALL NAILING SHALL BE DONE IN ACCORDANCE WITH THE MINIMUM REQUIREMENT OF THE LOCAL CODE, AND SHALL BE DONE WITH COMMON NAILS ONLY (U.N.O.).
- AT PLYWOOD SHEAR WALLS, PLYWOOD TO EXTEND ABOVE AND BELOW AND SIDES OF ALL OPENING. PLYWOOD AT SHEAR WALL TO BE CONTINUOUS AT WALL AND DOOR JAME, INTERSECTIONS
- 15. PROVIDE BOUNDARY NAILING TO END POST/STUD AT EACH SHEAR WALL
- 16. PROVIDE BOUNDARY NAILING ALONG STRUT MEMBER.
- 17. BOLTS SHALL BE UNFINISHED BOLTS CONFORMING TO ASTM A-307.
- ALL WALLS SHALL BE BOLTED TO FOUNDATION (CONCRETE OR CONCRETE BLOCK WALL) MIN 5/8" & ANCHOR BOLT 04"-0" WITH PLATE WASHER 3X3X0.229 PLATE WASHER AT 10"P. STARTING WITHIN 12" MAX. 4" MIN. FROM EA. END AT WALL
- 19. GLULAM BEAM SHALL BE 24F-V4 DF/DF, DRY CONDITION OF USE TYPE, LOADS PERPENDICULAR TO SIDE FACE OF LAMINATION. MATERIALS, MANUFACTURE AND QUALITY CONTROL SHALL BE IN CONFORMANCE WITH ANSI A190.1 EACH PIECE TO BE IMPRINTED WITH STANDARD IDENTIFICATION MARKS. APPROVED INSPECTION CERTIFICATE ON GLUING PROCEDURE TO BE SUBMITTED TO THE BUILDING DEPT.

### NAILING SCHEDULE -- MINIMUM REQUIREMENT

BLOCKING TO JOIST AT TOP PLATE (TOE) 3-8d
BLOCKING TO JOIST NOT AT TOP PLATE (TOE) 2-8d
CEILING JOISTS TO TOP PLATES (TOE)3-8d
RAFTER TO TOP PLATE (TOE)3-10d
RAFTER TO HIP/VALLEY (TOE)3-10d
STUD TO STUD (FACE) 16d@24"O.C.
ABUTTING STUDS AT INTERSECTING WALL (FACE) 16d@16"O.C.
TOP PLATE TO TOP PLATE (FACE)
STUD TO TOP OR BOTTOM PLATE (TOE)4_8d
TOP OR BOTTOM PLATE TO STUD (END)2-16d
TOP PLATE LAPS AT CORNERS AND INTERSECTION (FACE) 2-16d
JOIST TO SILL TOP PLATE OR GIRDER (TOE)

# SHEAR WALL SCHEDULE

TYPE	SHEAR WALL MATERIAL	PLATE/SILL NAIL	ANCHOR BOLTS	VALUE
<a>A</a>	7/16" PLYWOOD, CDX W/ 8d @ 6", 12", BLOCKED	164 9 5"	5/8"# A.B. @4"-0" o.c.	255
₿	7/16" PLYWOOD, CDX W/ 8d @ 4", 12", BLOCKED	16 <u>d</u> @ 3*	5/8" A.B. 032" o.c.	395
0	7/16" PLYWOOD, CDX W/ 8d @ 3", 12", BLOCKED * 3X SILL * 3X STUD @ ADJACENT PANEL EDGE	1/4"# LAG SCREW X6" @ 6" O.C.	5/8"¢ A.B. @32" o.c.	450
0	7/16" PLYWOOD, CDX W/ 8d @ 2", 12", BLOCKED * 3X SILL * 3X STUD @ ADJACENT PANEL EDGE	1/4"¢ X 6" LAG SCREW @5"	5/8"# A.B. @16" o.c.	585

- NOTES: 1 1/2" FIGE DISTANCE FOR PLYMD BOLINDARY NAILING
  - HIERE PANELS ARE APPLIED ON BOTH FACES FRAMING SHALL BE 3 X AND NAILS ON EACH SIDE SHALL BE STAGGERED.
     PROVIDE 3" X 3" X 0.229" PLATE WASHER FOR 5/8"ø ANCHOR BOLT AND BOLT SHALL BE HOT—DIPPED GALVANIZED.

I VALLEY E CA 91731 GARDEN F LA VALLEY G 9933-996 I EL MONTE, ( OCT. 2017 Date

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- 1. PROVIDE 4" CONC. SLAB ON GRADE WITH #4 REBAR @18"O.C. EW AT MIDDLE-HEIGHT OF SLAB, OVER 6-MIL VINYL MEMBRANE, SANDWICHED WITH 2" SAND AT TOP, 2" SAND AT BOTTOM.
- 2. ALL FOUNDATION EXCAVATIONS MUST BE OBSERVED AND APPROVED BY THE PROJECT ENGINEERING GEOLOGIST AND/OR PROJECT GEOTECHNICAL ENGINEER PRIOR TO REINFORCING STEEL. SOIL ENGINEER REPORT SHALL BE SUBMITTED TO THE BUILDING INSPECTOR AT TIME OF INSPECTION.

	BASEMENT	FOOTING	
FOOTING	SIZE	THICKNESS	REINF'G
<b>F</b>	14'-0" SQ.	30"	18 - #8 E.W.

	BASEMENT	CONCRETE	COLUMN	
COLUMN	SIZE	VERT. REINF.	TIE	COL. CAP.
CONC. COLUMN	18" 18" 18" 18" 18" 18" 18" 18" 18" 18"	12-∦8	#4 TIE @12" O.C.	42"X42"X12"

	WALL S	SCHEDULE				
WALL	THICKNESS	VERT. REINF.	HORIZ. REINF.			
$\triangle$	12" CONC. WALL	#6@8" O.C. BOTH SIDES	#6@8" O.C.			
2	8" CONC. BLOCK WALL	#6@8" O.C.	#6 <b>0</b> 8" O.C.			

Project Name LA VALLEY GARDEN PLAZA 9933-996 I VALLEY BLVD. EL MONTE, CA 91731 Date OCT, 2017 Scale

(626) 280-9000 (626) 280-9091

8748 VALLEY BLVD, #L ROSEMEAD, CA 91770

STRUCTURAL PLAN

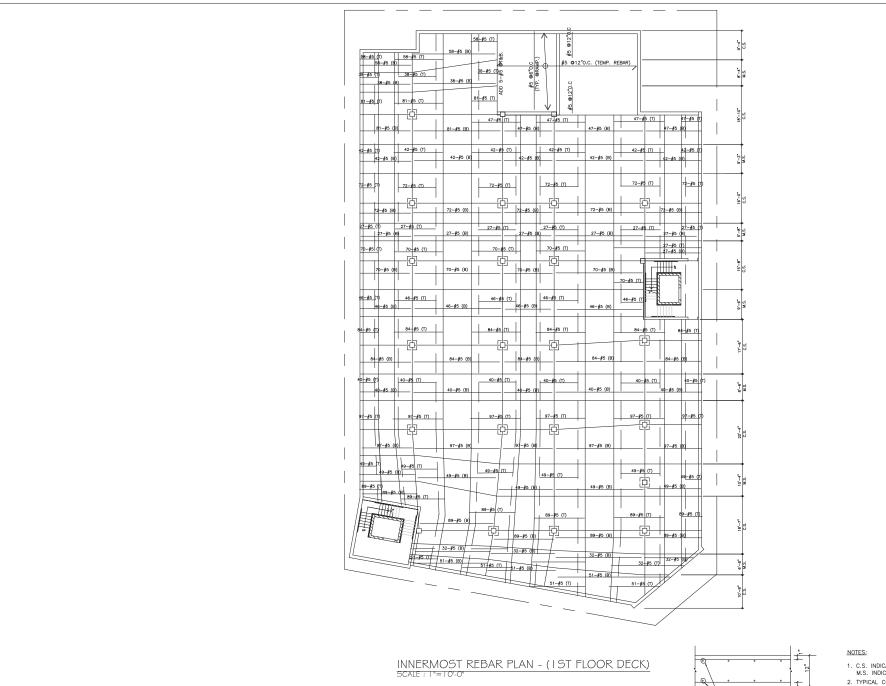
PETER LEE ENGINEERING, INC. STRUCTURAL ENGINEER TEL:

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S-2

BASEMENT / FOUNDATION PLAN

SCALE : I"= 10'-0"



REVISIONS BY

EERING, INC. ER Te.: (626) 280-9000 Fax: (626) 280-9091

PETER LEE ENGINEERING, INC STRUCTURAL ENGINEER 8748 WALEY BLO., #1 TEL: (626) 286 ROSEMEJO, CA 91770 F.W.; (626) 286

JRAL PLAN

Sheet Title



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Project Name
LA VALLEY GARDEN PLAZA
9933-9961 VALLEY BLVD.
EL MONTE, CA 91731

Date OCT, 2017

Scale Drawn Dipo

Job Job

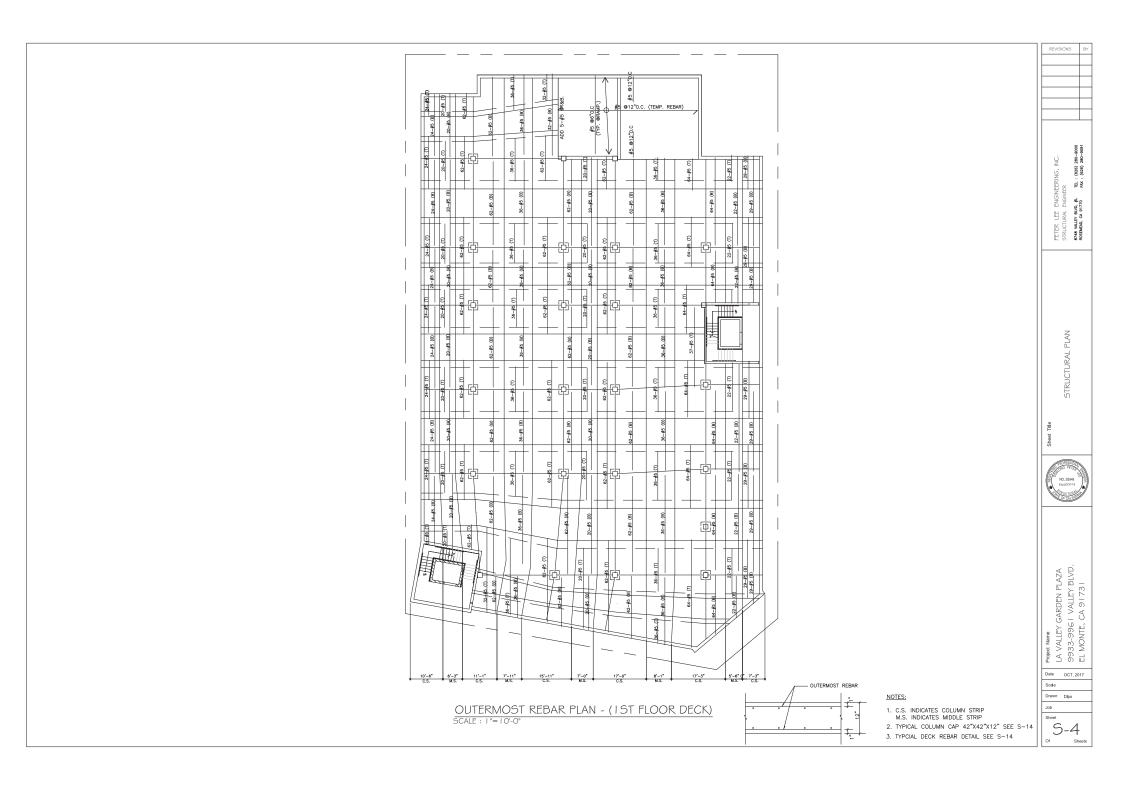
Sheet **5-3** 

C.S. INDICATES COLUMN STRIP
 M.S. INDICATES MIDDLE STRIP

- INNERMOST REBAR

2. TYPICAL COLUMN CAP 42"X42"X12" SEE S-14

3. TYPCIAL DECK REBAR DETAIL SEE S-14



	CONCRETE	COLUMN		
COLUMN	SIZE	VERT. REINF.	TIE	COL. CAP.
CONC. COLUMN	18"	12-#8	#4 TIE @12" O.C.	42"X42"X12"

	WALL SCHEDULE					
WALL		VERT. REINF.	HORIZ. REINF.			
$\triangle$	12" CONC. WALL THICKNESS	#6@8" O.C. BOTH SIDES	#6@8" O.C. BOTH SIDES			
2	8" CONC. BLOCK WALL	#6@8" O.C.	#6@8" O.C.			

STRUCTURAL PLAN

8748 VALLEY BLVD, ∯L TEL : (626) 280-9000 ROSEMEAD, CA 91770 FAX : (626) 280-9091



RDEN PLAZA VALLEY BLVD. 3 91731

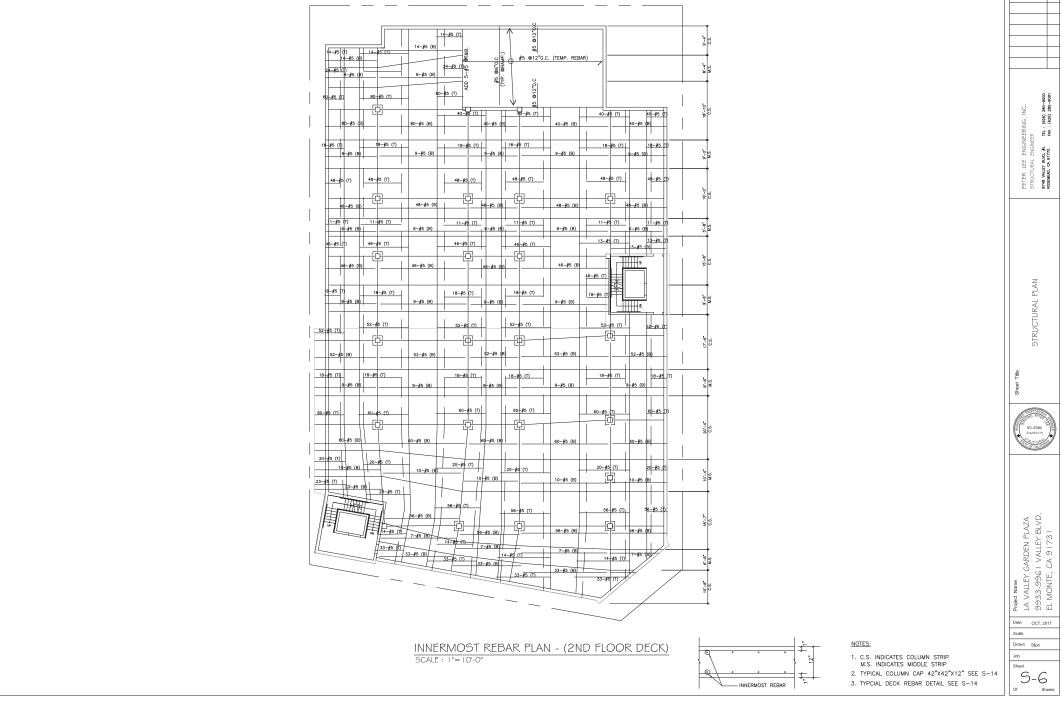
LA VALLE 9933-9 EL MON

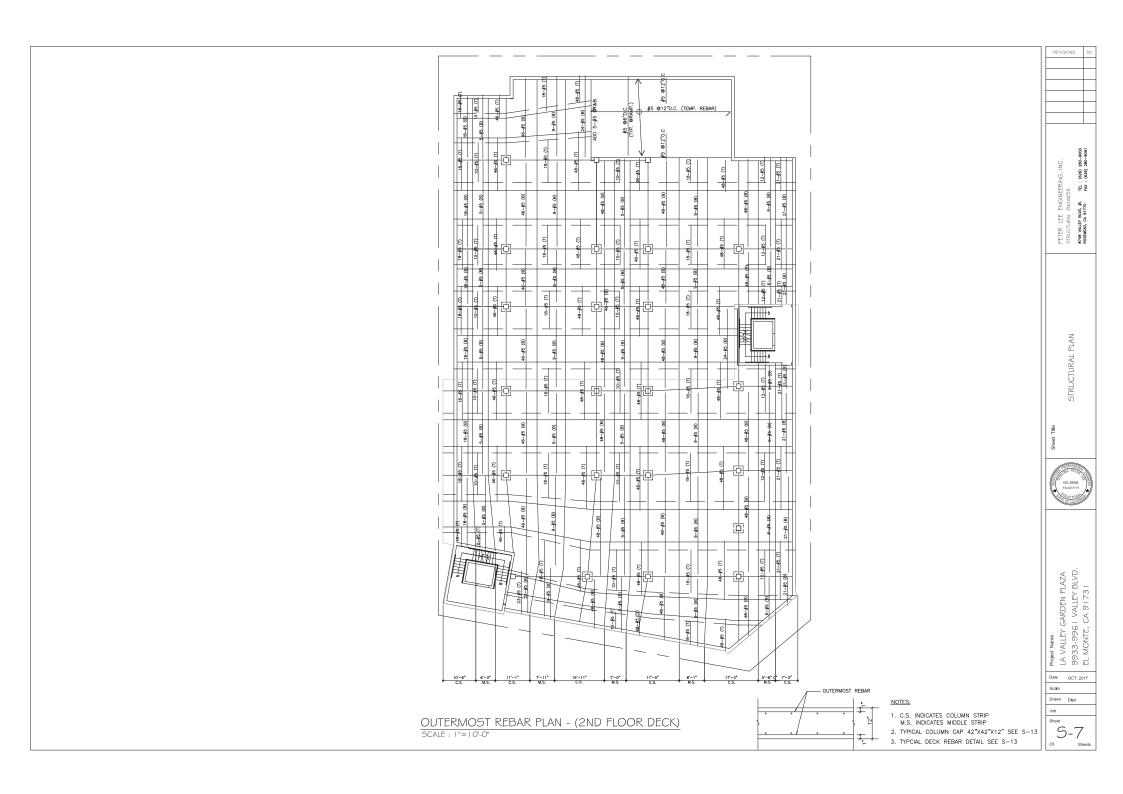
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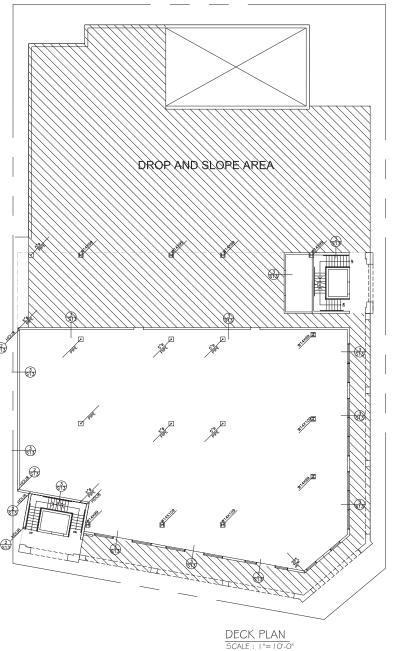
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Sheet S-5

 $\begin{array}{l} \text{IST FLOOR DECK PLAN - (COLUMN AND SHEARWALL)} \\ \hline \text{SCALE}: 1"=10"-0" \end{array}$ 





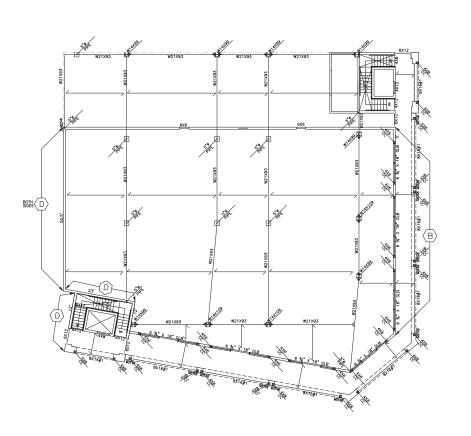


NOTES:

- 1. ALL SILL PLATE TO BE 3 X DFPT.
- ANCHOR BOLT 56" Ø 312" LONG WITH 7" EMBEDMENT, SPACING PER SHEAR WALL SCHEDULE, STARTING WITHIN 12" FROM EA, END, MIN. TWO BOLTS FOR EA, WALL, W. 3X3X0,229 PLATE WASHER AT TOP OF ANCHOR BOLT.
- 3. INDICATES COLUMN BASE TYPE ON DECK, SEE INDICATES ANCHOR BOLT DETAIL SEE INDICATES HOLDOWN DETAIL SEE.
- SHADING AREA INDICATES DROP AND SLOPE AREA SEE ARCH AND GRADING PLAN.
- 5. HOLD-DOWN HARDWARE MUST BE SECURED IN PLACE PRIOR TO FOUNDATION
- 6. HOLD-DOWN CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE APPROVED PLATE WASHERS; AND HOLD-DOWN SHALL BE TIGHTENED JUST PRIOR TO COVERING THE WALL FRAMING.

(626) 280-9000 (626) 280-9091 ∄ ₹





# 2ND FLOOR FRAMING/ 1ST FLOOR PLAN SCALE : I"= IO'-O"

FLOOR TRUSS 2-TJI 560 (18" DEEP) @16" O.C. BY TRUSS JOIST COMPANY, CORRIDOR TJI 560 (14" DEEP) @16" O.C.

INDICATES SHEAR WALL TYPE, SEE S - 1 SCHEDULE

3 ALL EXTERIOR STUD TO BE 2X6 STUD MIN. @16\*O.C. (U.N.O) INTERIOR STUD TO BE 2X4 @16"O.C. MIN. (U.N.O)

(626) 280-9000 : (626) 280-9091

7. X

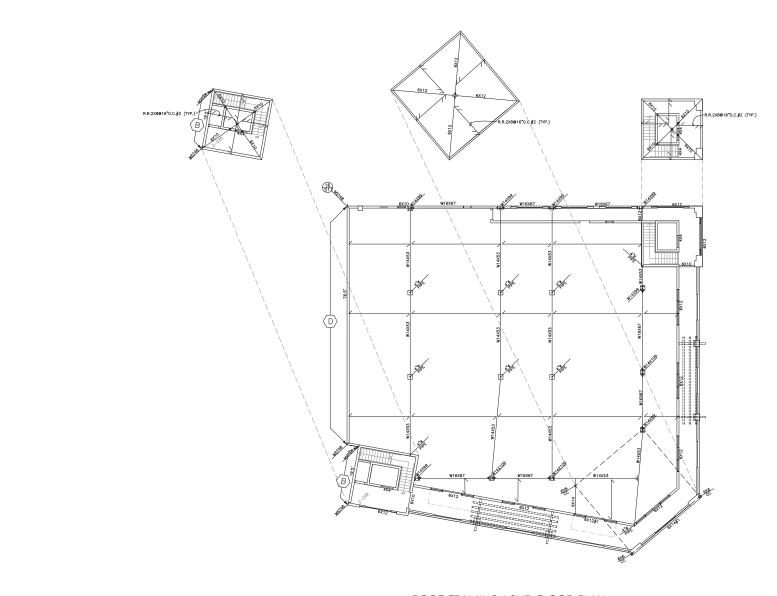


Project Name
LA VALLEY GARDEN PLAZA
9933-996 I VALLEY BLVD.
EL MONTE, CA 9 1 73 I

Date OCT, 2017

Drawn Dipo

5-9



# ROOF FRAMING / 2ND FLOOR PLAN

SCALE : | "= | 0'-0"

OTES

ROOF TRUSS TJI 360 (14" DEEP) @16" O.C. BY TRUSS JOIST COMPANY,

INDICATES SHEAR WALL TYPE, SEE S - 1 SCHEDULE

INDICATES SHEAR WALL TIE DOWN AT EACH END OF SHEARWALL BETWEEN 2ND AND 1STFLOOR

ALL EXTERIOR STUD TO BE 2X6 STUD MIN. @16\*O.C. (U.N.O) INTERIOR STUD TO BE 2X4 @16\*O.C. MIN. (U.N.O) REVISIONS BY

EE ENGINEERING, INC.

- PLAN

annear mae



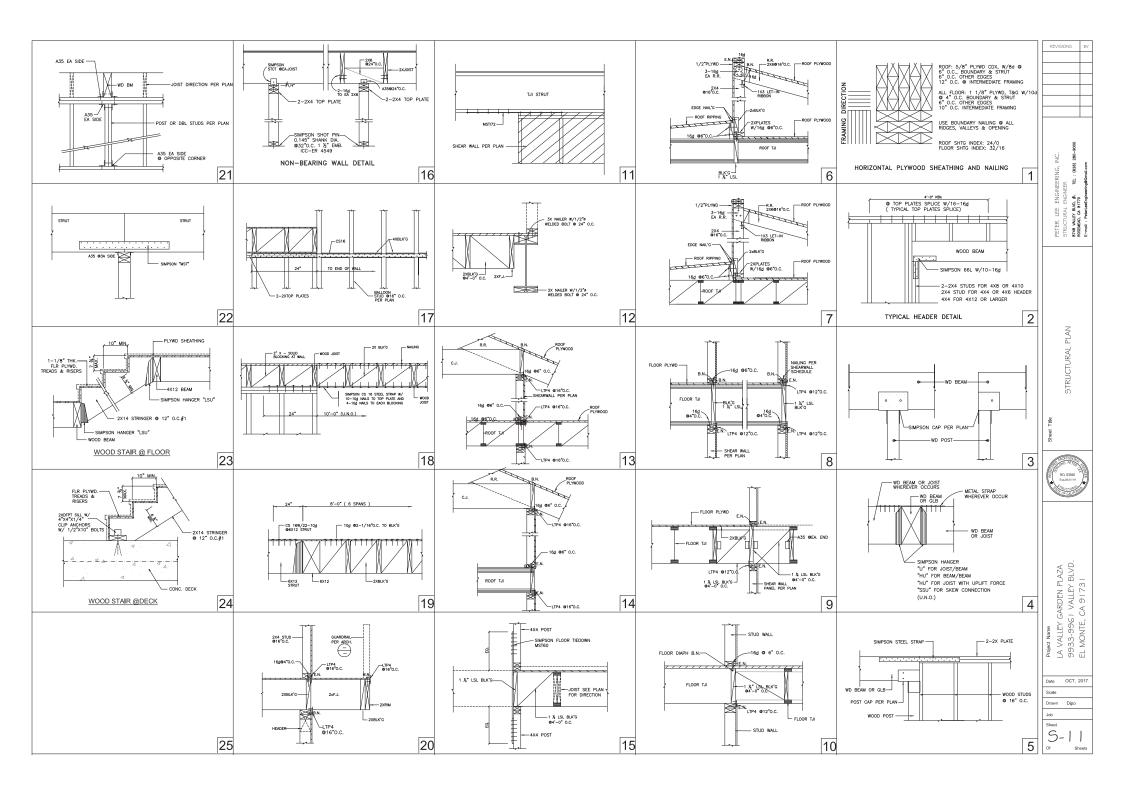
Project Name
LA VALLEY GARDEN PLAZA
9933-9961 VALLEY BLVD.
EL MONTE, CA 91731

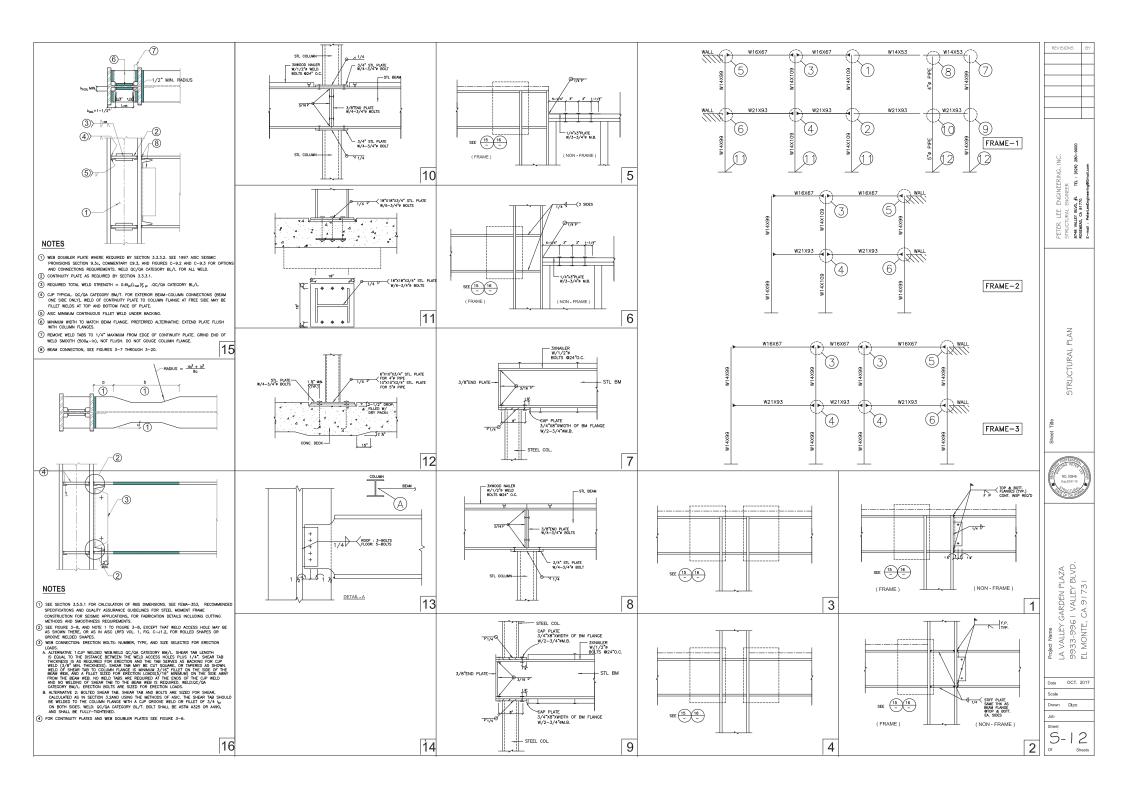
Date OCT, 2017

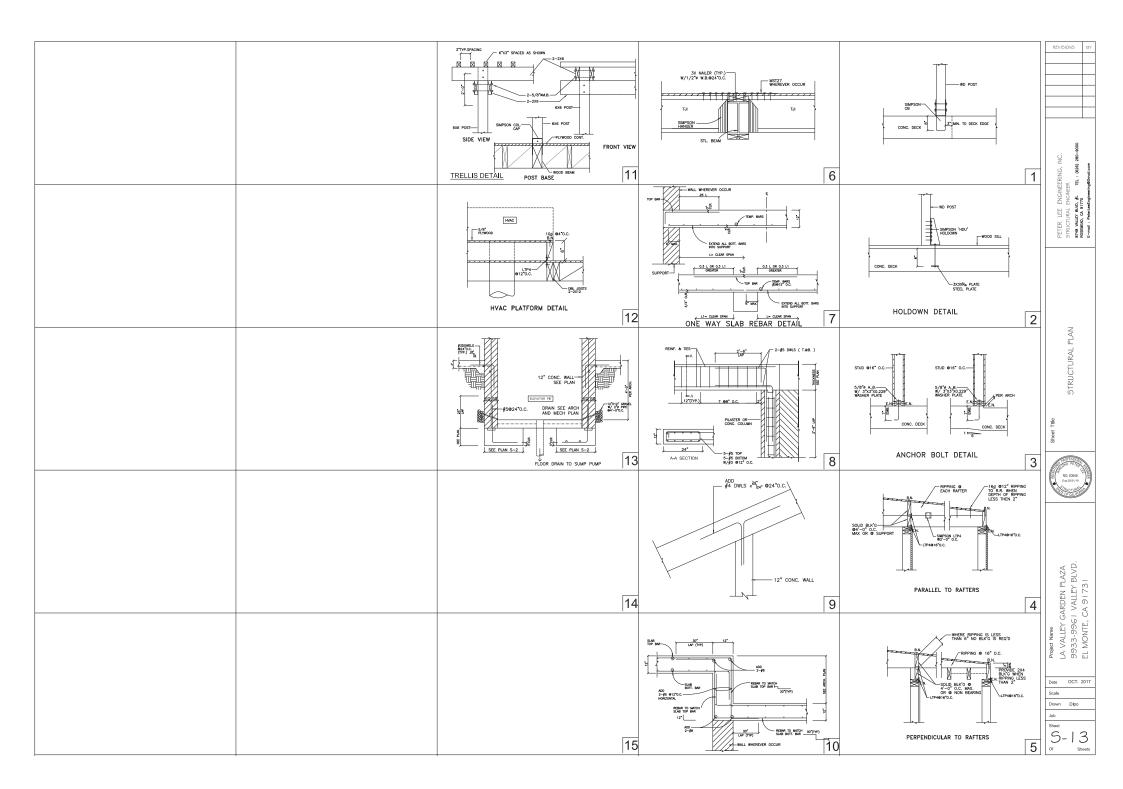
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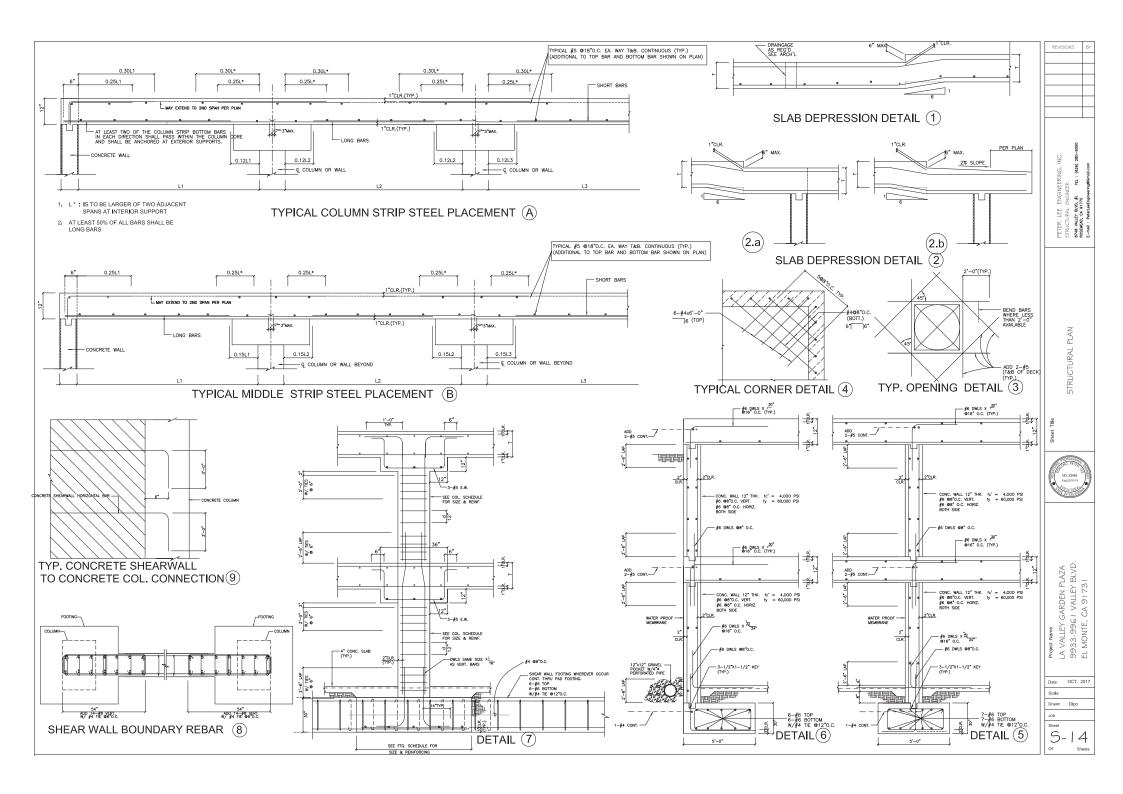
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S-IO
Of Sheets









The Standard Quality Assurance Plan (hereinafter referred to as "Standard QA Plan") for steel moment frames provides specifications, procedures, and Illustrative details to comply with the requirements of the 2002 Los Angeles Building Code. The quality assurance requirements described in this Standard QA Plan are Intended to promote public safety and welfare by standardizing inspections, tests, and all other applicable measures that ensure substantial compliance with the code performance objectives of steel moment frame connections

#### II. HOW TO USE THIS STANDARD QA PLAN

To use the Standard QA Plan, follow the steps outlined below:

- 1. Standard QA Plan shall be attached to or incomorated in the structural Where the Standard QA Plan is attached to the structural plan, the
- Engineer of Record shall: a. Identify the type of steel moment frame to be used in the building or
- structure by placing an "X" mark in the box belo
- III SPECIAL MOMENT ERAME (SME)
- INTERMEDIATE MOMENT FRAME (IMF)
- □ ORDINARY MOMENT FRAME (OMF)
- b. Place a NOTE on the structural plan stating "All specifications. tables, and notes in the City of Los Angeles' Standard Quality Assurance Plan for Steel Moment Frames shall be part of this nnmved structural nian "
- Sign and stamp the Standard QA Plan in the box provided at the lower right comer of each sheet
- Where the Standard QA Plan is incorporated directly in the structural plan, the Engineer of Record shall place a NOTE on the structural plan to clearly indicate the type of steel moment frame to be used in the building or structure.
- 4. All of the quality assurance requirements listed in the Standard QA Plan shall be applied to special moment frames, intermediate moment frames and ordinary moment frames, unless noted otherwise herei
- 5. Organize and submit all reports required in Table 1 on Sheet 2 to the City Building Inspector in a timely manner for review and approval
- The procedures, specifications and illustrative details as described in the Standard QA Plan shall not exempt the Engineer of Record from using engineering judgment in determining the suitability of applying the Standard QA Plan to any welded connections. Any deviations in the quality assurance requirement as specified in the Standard QA Plan shall comply with Part III Item 5 of the Standard OA Plan

## III. GENERAL REQUIREMENTS

## 1. Referenced Documents

The design and construction of steel moment frames shall be in compliance with the following:
a. City of Los Angeles Building Code, 2002 Edition (hereinafter referred

- to as "LABC")
- b. AISC Seismic Provisions for Structural Steel Buildings, Part I and Part III. dated May 21, 2002 (hereinafter referred to as 'AISC Seismic').
- c. AWS D1.1/D1.1M:2002 Structural Welding Code Steel (hereinafter referred to as "AWS").

### 2 Material Specifications

- Structural steel shall comply with UBC Standard 22-1 and the following ASTM standard specifications:
- . Wide flange shapes.... ASTM A572 (50) A913 (50) A992 Continuity, doubler and column base plates, shear tabs...ASTM A36 iii. Anchor bolts at column base plates..... ASTM F1554
- ly. Exhibite and erect structural steel in compliance with either the 2001 Edition of AISC 'Load and Resistance Factor Design Specification for Structural Steel Buldings' (hereinafter referred to as "AISC LRFD Specification") or 1989 Edition of the AISC "Allowable Stess Design Specification for Structural Steel Buildings (hereinafter referred to as "AISC ASD Specification").
- v. Steel having dual ASTM designation shall be clearly identified on each specific plan detail. b. High strength bolts shall comply with the following requirements and
- ASTM standard specifications: i. High strength bolts, nuts, and washers.....
- II. Installed bolts in accordance with the "Specifications for Structural
- Joints using ASTM A325 or A490 Bolts."

  III. Tighten bolts to a snug tight condition that is at least the minimum
- proper tension and verify using a calibrated tension measuring
- Slip critical high strength bolts are required.
- v. All faving surfaces of connections with high strength fasteners shall be prepared as required for Class A per the AISC Seismic Section Elller metal properties and specifications shall be as follows
- I. Ejectrodes shall be of a low-hydrogen type conforming to AWS specifications as referenced in Table 7 on Sheet 2.
- ii. Filler metals shall be classified for nominal 70 ksi tensile strength.
- iii. The maximum permitted electrode diameter shall be in acc with Table 5 on Sheet 2 iv Filler metals shall have a minimum Charov V-Notch (CVN)
- toughness of 20 ft-lbf at -20°F using AWS A5 classification test methods.
- v. The use of intermixed welds shall not occur unless it can be
- demonstrated by testing in accordance with AWS Section 4. vi. The parameters established by the electrode manufacturer shall be reflected in the approved WPS.
  d. Other materials not listed in UBC Standard 22-1 or LABC Chapter 35
- are not permitted without specific approval from the Departme

#### 3. Welding Processes

Structural welding shall be limited to the Shielded Metal Arc Welding or Flux Cored Arc Welding processes

#### 4. Base Metal Repairs or Restorations

- Any repair or restoration of base metal shall comply with all of the
- a. Engineer of Record shall review and approve the WPS for repai
- procedures prior to welding.
  b. Ensure that repair procedures meet the requirements outlined in AWS Section 5.26 and ASTM A6/A6M-02 Section 9.2, 9.3, 9.4 and 9.5.
- All welding shall be performed using low-hydrogen process or with SMAW using low-hydrogen electrodes.

  d. Provide continuous visual inspection by the Deputy Inspector
- e. Provide non-destructive testing upon completion of the repair work

#### 5. Deviations From the Standard Quality Assurance Plan Deviations from any part of the Standard QA Plan may be made provided

- the procedures outlined below are followed: a. Deviations from the Standard QA Plan must be reviewed and approved
- by the Engineer of Record Engineer of Record shall provide alternate procedures, specificat
- and/or details to justify the deviations. c. Submit the proposed deviations from the Standard QA Plan to the
- Department for review and approval prior to commencement of work. d. Supplemental testing and additional specifications may be required to justify the deviation
- e. Conformance with all applicable provisions of the LABC, AISC, and AWS is required

#### IV, QUALITY ASSURANCE

#### 1. Certification

- Inspectors shall be LADBS Certified Deputy Inspectors per LABC Section 1701.2 and Information Bulletin P/BC 2002-035 Regulations. Regarding Registration for Deputy and Controlled Activities Inspec Employment shall be in accordance with Information Bulletin P/BC 2002-034 "Employment and Duties of a Registered Deputy Inspector."
- Welders shall be LADBS Certified Welders for the Structural Steel classification per LABC Section 1701.18.1, 2205.10, and Information Bulletin P/BC 2002-045 "Welder Certification Rules and Regulations"
- Shop welds shall be performed in an LADBS Certified Fabricator's Shop per LAMC Section 96.204(g) and Information Bulletin P/BC 2002-042 'Application for Approval as Fabricator.'
- d. Technicians performing Non Destructive Testing (NDT) shall be certified for Level II in accordance with ASNT SNT-TC-1A 2002 Edition by a Testing Agency approved per LAMC Section 98.0503 and Information Bulletin P/BC 2002-058 Guidelines for Recognition of Testing Agencies."

### 2. Pre-Construction Meeting

- a. The Owner (or owner's representative) shall arrange a pre-construction meeting(s) with the Engineer of Record (or Structural Observer designated by the Engineer of Record), the Contractor (or affected Sub-Contractor), and the Deputy Inspector to discuss and review welding procedures, bolting procedures, and inspection requirements for all welding and bolting operations.
- The City Building Inspector shall be notified of such meeting(s) and may participate at his/her discretion.

  c. Meeting record(s) shall be included in the first report submitted to the
- City Building Inspector

### 3. Structural Observation

- Structural observation shall be performed in accordance with information Bulletin P/BC 2002-024. The Structural Observer shall: . Perform structural observation listed in Table 6 on Sheet 2
- Perform structural observation prior to placement of decking, covering by fireproofing, encasement in concrete or placement of other finishes.
- c. Submit observation report(s) to the City Building Inspector at each stage observed and upon completion of the structural system.

  d. State In the report that the steel moment frame system substantially
- conforms with the approved structural plans and specifications.
- Use the Department's Structural Observation Report Form to report all observations. Structural Observation Report Form can be obtained at www.ladbs.org. keyword "Information Bulletin P/BC 2002-024"

### 4. Deputy Inspection

- The following are the basic Quality Assurance responsibilities of the Deputy Inspectors:
  a. Arrive on the job in sufficient time to verify the permit information,
- check for prior inspections and/or approvals by the City Building Inspector or previous Deputy Inspectors, check the quality of all materials and become familiar with the approved structural plans and specifications.
- b. Verify that structural steel delivered is from a fabricator currently Ilcensed by the Department.
- c. Identify material from an offsite fabricator in accordance with LABC Section 2203 and compare to the approved plans and specifications.
- d Verify that each steel piece is labeled with the approved fabricator's shop name and license number.

  e. Visual check shop welds, joint preparation, faying surfaces, indentation
- stamps and color codes of high strength steel, excessive mill scale or lamination, and dimensional conformity with the approved plans.

  f. Before any welding begins, inspect joint preparation, fit-up, condition or surfaces to be welded, storage and use of electrodes, current license
- of all welders, and voltage/amperage of welding machines.
  g. Ensure that all welding and inspection activities compiles with AWS. Measure voltage/amperages near the arc with a hand held calibrated averaging type meter. The meter shall be calibrated not less than once a year. This equipment shall be used by the Fabricator, Erector, and
- Deputy Inspector. During welding operation, provide continuous inspection particularly on multiple pass welds to assure that each pass has been prepared correctly, preheat and interpass temperatures are maintained and that finished welds shall be the correct size and without rejectable discontinuities.
- i. Mark steel near the weldment to Indicate that inspection was made

- k. Verify type and size of bolts and washers, check mill certificates, and verify faying surfaces are free of burns, scale, rust, grease or anything that may inhibit full contact.
- Verify connections involving high strength bolts and welds are fabricated per Part III Item 2(b) and 2(c) and erected in a sequence per Part V Item 2, unless specified otherwise by the Engineer of Record
- m. Verify high strength bolts are not welded or damaged by preheating.

  n. Verify washers are always installed with all bolts, except A-490 bolts. which require washers under both elements
- Verify that any deficiency noted in the Structural Observation Repor Form has been corrected.
- Verify that the Engineer of Record has approved the written Welding Procedure Specification (WPS) prepared by the Fabricator or Erector The WPS shall include the following:

List the applicable base metal types and thicknesses

- I All applicable requirements from the codes, the Standard QA Plan and any other information necessary to produce the welds.
- III. List the welding joint detail, including joint type, weld type, joint geometry, and applicable dimensions. Individual weld passes shall be identified in sketches and numbered to identify the sequence of their deposition (see Detail 13 on Sheet 3 for example). The sketches shall identify the maximum layer thicknesses and beac widths. In no case shall layer thicknesses exceed 1/4 inch nor shall the maximum bead widths exceed 5/8 inch.
- iv. List the welding processes.
- Specify the required welding positions.
- vi. List the filler metal per AWS for electrode specification and classification (see Table 7 on Sheet 2), as well as information regarding shielding material to be used
- Indicate the minimum preheat and interpass temperatures (see Table 4 on Sheet 2) and post weld heat treatment per Part V Item 5.
- viii. List all applicable electrical characteristics for the welding process employed. WPS shall clearly indicate the specific values required for each welding pass. These ejectrical characteristics shall include at
- minimum the following: (1) Electrode diameter (see Table 5 on Sheet 2),
- (2) Type of current, and acceptable ranges of current measured in amperage,
- (3) Voltage,
- (4) Travel speed (range), and
- (5) Amperage, voltage and electrode extension (as applicable) shall be within the filler metal manufacturer's recommendations.
- Ix. A copy of the electrode manufacturer's technical information with ID #Listed shall be attached to the WPS
- Weld joints not conforming to AWS Chapter 3 must be tested by an approved testing agency, accepted by the Engineer of Record, and approved by the Department's Material Control Section before the weld Is performed. Material Control Section can be contacted at

LADBS Material Control Section 221 N. Figueroa St., Suite 1540 Los Angeles, CA 90012 (213) 482-0380 or 1-888-LA-4BUILD

- r. Notify the Contractor. Engineer of Record. and City Building Inspector of any deviations or non-compliance with the approved WPS specifications.
- s. "Deputy Inspection Report Form B-94" shall be submitted on a weekly basis to the City Building Inspector and Engineer of Record, unless determined otherwise by the City Building Inspector.
- During the execution of the work, the Deputy Inspector shall not undertake or engage in any other task or occupation which will interfere with the proper performance of the duties of such inspection

## 5. Electrode Storage and Atmospheric Exposure

- a. Electrodes are considered to be exposed to the atmoshpere if the manufacturer's sealed electrode containers or packagings are
- opened or damaged, or outside of baking or storage ovens.
- Modification or lubrication of electrodes are not permitted
- c. Drying of electrodes in baking or storage ovens are permitted as recommended by the manufacturer
- d. Electrodes shall be identified to facilitate monitoring of total atmospheric exposure time.
- e Storage and atmospheric exposure of AWS A5 1-91 and A5 5-96 lownydrogen SMAW electrodes shall be in accordance with AWS Section
- f. FCAW electrodes not consumed within 24 hrs of accumulated atmospheric exposure time shall not be used. Manufacturer's recommendations that show that drying effectively removes moisture and restores electrodes to their designated diffusible hydrogen levels
- g. FCAW electrode welding suspended more than 8 hrs shall be removed from the machines and stored in an electrode wire baking or storage oven maintained at a temperature between 250° and 550°F, or as recommended by the electrode manufacturer.

### 6. Plastic Hinging Zone Protection

- a The plastic hinging zone shall be identified diagrammatically, as Illustrated in Detail 15 on Sheet 3, on the structural plans by the
- b. The Engineer of Record and Contractor shall be responsible for reviewing shop drawings of ALL relevant trades to ensure compliance. This shall be discussed and documented in pre-construction meetings.
- c. The Contractor shall be responsible for developing a program to ensure that all workers on the project, including their subcontractors, are of and understand this requirement. Failure to comply with these requirements may cause the replacement of steel.
- d. Plastic hinging zones shall be defined by permanent markings such as e. A note, as illustrated in Detail 15 on Sheet 3, shall be prominently
- placed on the structural plans (general note sheet and adjacent to moment frame detail) and the construction documents of ALL trades f. Welded bolted screwed or shot-in (powder driven) attachments for perimeter edge angles, shear studs, exterior facades, partitions, duc work, piping, or other connections shall not be permitted within the plastic hinging zones.

- Any penetrations or damage from temporary welded attachments within the plastic hinging zones shall be repaired as required by the Engineer of Record and comply with Part || | |tem 4.
- Initially, the plastic hinging zone "Warning Sign", as Illustrated in Detail 15 on Sheet 3, may be temporary. However, the temporary "Warning Sign" shall be replaced by a permanent "Warning Sign" before project. completion. This sign and identification of the plastic hinging zone shall be maintained during construction; and may require repair after operations such as fireproofing.
- . Signs shall be affixed to the beam and located within the plastic hinging zone. The City Building Inspector may accept alternate methods of attaching the "Warning Sign" to the plastic hinging zones
- 7. Additional Charpy V-Notch Toughness (not required for OMF) Welds at the locations indicated below shall be made with filler metal having a CVN toughness of 20 ft-lbf at -20°F AND 40 ft-lbf at 70°F as determined by test procedure prescribed in the AISC Seismic Appendix X "Weld Metal / Welding Procedure Specification Toughness Verification
- a. Beam flanges to columns
- Single plate shear connections to columns,
   Beam webs to columns, and
- d. Column solices.

### 8. Non-Destructive Testing (NDT) Requirements

- a. The minimum non-destructive testing at each weld joints or parts shall be conducted at the locations and frequencies as specified in Table 2 and Table 3 on Sheet 2 respectively.
- b. A copy of each NDT report shall be provided to the Contractor Engineer of Record, Deputy Inspector, and City Building Inspector with
- the following information: Document the accepted and rejected welds, parts, or joints
- ii. Identify the tested weld by piece mark and location in the piece . Identify the tested weld location in the structure. NDT Technician shall perform the following tasks.
- Coordinate the NDT scope and schedule with the Deputy Inspector II. Perform NDT in a timely manner (so as not to hinder construction work) and to detect welding problems soon after occurrence so that
- corrective measures can be taken by the Contractor iii. Mark the inspected and accepted welds, parts, and joints with a distinguishing mark or die stamp
- i. The rate of UT testing on CJP groove welds may be reduced if approved by the Engineer of Record and the Department. The NDT rate for an individual welder or welding operator may be reduced to 25%, provided the reject rate is demonstrated to be 5 % or less of the welds tested for the welder or welding operator. A sampling of at least 40 completed welds for a job shall be made for such reduction
- evaluation. II. The rate of MT testing on CJP groove welds may be reduced if approved by the Engineer of Record and the Department. The MT rate for an individual welder or welding operator may be reduced to 10%, provided the reject rate is demonstrated to be 5 % or less of the welds tested for the welder or welding operator. A sampling of at least 20 completed welds for a job shall be made for such a reduction evaluation. This reduction is not permitted on welds in the k-area, at repair sites, weld tab and backing removal sites and
- access holes iii. Reject rate shall mean the number of welds containing rejectable defects divided by the number of welds completed.

The reports listed in Table 1 on Sheet 2 shall be submitted to the City Building Inspector in a timely manner

# V. WELDING PROCEDURES

- Bottom Beam Flange Moment Connection Welding Where welding of the bottom beam flange to the column flange is in the
- flat welding position, welding shall be completed with the following a. Start welding from Side A (one side of the beam) with a maximum 1/4 Inch thick root pass beyond the center of the joint on Side B (other side of the beam), reaching past the beam web through the weld acce
- h. After the arc is initiated, electrode travel shall progress toward the edge
- of the Side A beam flange, terminating on the Side A weld tab. c. The Side A root pass, and the root pass deposit on Side B, shall be thoroughly cleaned to allow the Deputy Inspector to verify that the resulting bead profile is suitable for obtaining good fusion by the subsequent root pass to be initiated from Side B. If the profile is not conductive to good fusion, the start of the first root pass shall be grounded, gouged, chipped, or otherwise prepared to ensure adequate
- profile to achieve fusion. d. Complete the root pass on Side B before any other weld passes are
- performed. e. The arc shall be initiated at the start of the first Side A root pass, and electrode travel shall progress toward the edge of the Side B beam flange, terminating on the Side B weld tab.
- f. The above sequence shall be repeated for subsequent weld lavers, and each weld layer shall be completed on both sides of the joint before a new layer is deposited. The order of operations (Side A, then Side B, or vice versa) is not restricted and may vary for each weld layer. Weld passes shall be placed in horizontal layers. Each pass shall be thoroughly cleaned of slag and wire brushed. Each pass shall be visually inspected by the Deputy inspector, as described above in Step (c).
- An alternate welding sequence may be made provided the Welder or Contractor submits in writing an alternate sequence that is approved by the Engineer of Record and complies with the requirements of Part III Item 5 of the Standard QA Plan.

#### 2. Sequence for Welding at Multiple Locations When welding occur at multiple locations of welded steel moment frame

connections, the following sequence shall be followed:

a. Weld both top and bottom beam flanges prior to any supplemental welding to the beam web or shear tab.

- b. Engineer of Record shall review and approve all field welding sequences prior to the start of work.
- c. Field welding of web shear plates with botts shall occur after field
- welding of beam flanges to column flange.

  d. High strength bolts shall be in the snug tight condition prior to welding.
- Notwithstanding AISC LRED Specification Section J1.9 to the contrary. high strength bolts shall be fully tensioned upon completion of all welding activities.

- a. Stringer beads shall be used during all welding operations. Maximum head width, head thickness, and layer thickness shall be considered. Weaving is not permitted, except when the WPS approved by the Engineer of Record limits electrode oscillation transverse to the weld axis to a maximum of
- 3d for 1G/1F, 2G/2F, and 4G/4F weld positions, o
- II. 5d for the 3G/3f position, where d = electrode diameter Welding layers should progress from the face of the column flange outward toward the groove face of the beam flange as flustrated in Detail 13 on Sheet 3.

### 4. Preheat and Interpass Temperature

- a. The minimum preheat and interpass temperature requirements in Table 4 of Sheet 2 shall be observed. Special attention shall be given to AWS Section 3.5.1 and Section 5.6 for the thickness of the base metal to be
- welded. b. Preheat and all subsequent interpass temperatures shall be maintained during the welding operation for a distance at least equal to the thickness of the thicker welded part, but not less than 3", in all directions from the
- point of welding.

  Where base metals are of different thickness, the higher minimum preheat
- and Interpass temperature requirements of the thicker plate shall govern. d. Maximum preheat and interpass temperature shall not exceed the
- i 550°F or
- II. The maximum temperature recommended by the manufacturer

### 5. Post Weld Heat Treatment

- Unless specified otherwise in an approved WPS, the minimum post weld heat
- treatment shall be provided as follows a Apply temperature in the 400°F to 600°F range immediately after completion of welding to prevent the weld metal from cooling below the
- minimum preheat and interpass temperature. b. Maintain temperature for approximately 1 hour per inch of thickness of weld metal or 2 hours, whichever is less
- c. Conditions specified in AWS Section 3.14 and Section 5.8 should carefully be considered when applying post weld heat treatment.

  Alternatively, the use of insulating blankets after the completion of welding in lieu of post weld heat treatment may be permitted to control the cooling of the welded connection to ambient temperature if recommended by the Engineer of Record and approved by the City Building Inspector, unless required

# VI. WELDING AND FABRICATION DETAILS

# otherwise by an approved WPS 1 Rase Metal Joint Preparation

- Base metal preparation shall be in comply with AWS Section 5.15.
- b. All beam flange to column flange welds are to be made with an AWS. prequalified CJP groove welded joint detail.

  c. Bevel, fit-up and detail tolerances shall be as required by the selected
- prequalified welded joint detail. Whenever possible, use the AWS prequalified CJP groove welded joint detail as illustrated in Detail 14 on Sheet 3 and the following: I. Use single hevel C.IP groove welds made with a 30° groove angle or
- double bevel CJP groove welds when flange thickness excee II "As Fit-Up" and "As Detailed" shall be the maximum tolerances

# iji. Meet all prequalified WPS variables in Table 5 on Sheet 2

- 2 Wold Access Hole
- Where weld access holes are provided, they shall be detailed as illustrated In Detail 12 on Sheet 3. Notches and gouges shall be repaired following a WPS approved by their
- Engineer of Record. c. Weld access holes shall be prepared by grinding to a sultable finish in accordance with AISC LRFD Specification Section J1 6 and provided with a minimum radius of 3/8 inch as Illustrated in Detail 12 on Sheet 3.

- 3. Backing Bar a. Backing bar used in connections with a CJP groove weld of beam flange to column flange shall be removed except that too flange backing bar attached to the column by a continuous fillet weld on the edge below thee
- CJP groove weld need not be removed. b. Following removal of backing bar, the root pass shall be backgouged to sound weld metal, and back welded. A reinforcing fillet weld with a minimum leg size of 5/16 inch or the root opening plus 1/16 inch, whichever is larger, shall be provided. The reinforcing fillet weld need not
- When backing bar is other than AWS Table 3.1 and Section 5.2.2 Ceramic, flux or glass tape may be used provided the manufacture's recommendations are followed.
- II When a non-metallic backing har is used, the WPS and the Welder shall be qualifed using the type of backing bar intended for welding.

## III. Nonferrous metallic (e.g. copper) backing materials are not permitted

Weld tabs shall be aligned parallel to the joint preparation.

approved base metal is used the following shall apply:

- No weld dams are allowed.
   Weld tabs shall extend beyond the edge of the joint a minimum distance.
- equal to the part thickness, but not less than one Inch. d. Weld tab shall be removed upon completion of the welded joint as follows:
   I. No more than 1/8 inch beyond the edge of the joint shall remain, except
- at continuity plate where up to 1/4 inch is acceptable. II. Edges of the weld tab shall be finished to a surface roughness value of 500 micro inch or better. Grinding to a flush condition is not required.

OWNER:

PLAN

ADDRESS:

SITE

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Engineer of Record

LA ( DBS Date: 06/20/2005

Assura philips Plan s comps spokes Stands respon re

Scale: Not to Scale Sheet 1 of 3  Material removed by grinding that extends more than 1/16 inch below the surface of the base metal shall be filled with weld metal. The contour of the weld at the ends shall provide a smooth transition, free of notches and

#### 5. Continuity Plate

- Continuity plates shall be detailed as illustrated in Detail 11 on Sheet 3. b. The weld attaching the continuity plate to the column flange shall be as

  - . Use a CJP groove weld for the full length of the groove preparation. ii. When backing bars are omitted, the root shall be backgouged and back welded
- III. When backing bars are used and remain in place, backing bars shall be attached to the column flanges with a reinforcing fillet weld.
- Fillet weld shall not be used to connect backing bars to continuity plates.
   The fillet weld size need not exceed the minimum size requirements of
- AWS Table 5.8. Weld terminations near the end of the column flange tips may be completed using weld tabs as follows:
   Weld tabs may be steel or nonfusible material.
- Weld terminations near the radius of the column need not be made using weld tabs. The use of small nonfusible weld tabs to assist in weld terminations is permitted.
- iii. Weld tabs shall be removed following completion of welding.
  d. Continuity plates may be welded to the column web with groove welds,
- fillet welds, or a combination of the two. Fillet welds shall terminate a minimum distance of 1/4 inch from each end of the joint.

### 6. Doubler Plate

Web doubler plates, as illustrated in Detail 2, 3, or 4 on Sheet 3, shall be welded using either Detail 5, 6, or 7 on Sheet 3.

### 7. Requirements for "k" Area

Welds shall terminate short of the "k" area for continuity plates as illustrated in Detail 11 on Sheet 3.

#### VII. EXEMPTIONS

- Reduction from certain quality assurance components of this Standard QA Plan, as listed in Part VII, Item 2, are permitted for the following buildings or structures:
- One or two family dwellings not more than 1 story in height and 2,500 sf of
- b. Buildings or structures accessory to residential uses (such as carport,
- storage, garage), and Miscellaneous structures (such as walkway, canopy, patto cover, gazebo,
- storage rack).
- 2. Buildings or structures, as listed in Part VII Item 1, are exempt from providing the following quality assurance components:
  a. Electrode Storage and Atmospheric Exposure, Part IV Item 5(f) and 5(g).
- Plastic Hinging Zone Protection, Part IV Item 6.
   Additional CVN Notch Toughness Testing, Part IV Item 7.
   Non-Destructive Testing, Part IV Item 8.
- e. Preheat and Interpass Temperature. Part V Item 4.
- f. Post Weld Heat Treatment, Part V Item 5.

Table 7. PREQUALIFIED BASE METAL - FILLER METAL COMBINATIONS FOR MATCHING STRENGTH (1.2.3.4)

BASE METAL		FILLER METAL			
Group	Steel Specification	Welding Process	AWS Electrode Specification	Electrode Classification	
I	ASTM A36 < 3/4 in.	SMAW	A5.1	E70XX	
			A5.5 (8)	E70XX-X	
		FCAW	A5.20 (5)	E70XT-X, E7XT-XM	
			A5.29 (8)	E70XTX-X, E7XTX-XM	
II	ASTM A38 ≥ 3/4 In. ASTM A572 Grade 50 ASTM A913 Grade 50 ASTM A992	SMAW	A5.1	E7015, E7016, E7018, E7028	
			A5.5 (6)	E70XX-X	
		FCAW	A5.20 (5)	E70XT-X, E7XT-XM	
			A5.29 (8)	E70XTX-X, E7XTX-XM	
RELATIONSHIP	BASE METAL(	S)	FILLER METAL STRENGTH		

			7 to the (0)	
RELATIONSHIP	BASE METAL(S)		FILLER METAL STRENGTH RELATIONSHIP REQUIRED	
Matching	Any steel to itself or any another in the same grow		Any filler metal	listed in the same group
watching	Any steel In one group to any steel In another		group [SMAW	listed for a lower strength electrodes shall be the
Under-Matching	Any steel to any steel to group	any	low-hydrogen o	lassification]

- 1. The base metal/filler metal strength relationships above shall be used to determine whether matching or under-matching filler metals are required. Refer to AWS D1.1/D1.1M:2002, Section 3.3.
- Preheating of joints involving base metals of different groups shall be in conformance with the
- requirements applicable to the higher strength group.

  3. When welds are to be stress-relieved, the deposited weld metal shall not exceed 0.05 percent vanadium.
- Adapted with permission from the AWS D1.1 Committee on Structural Welding, Structural Welding Code Steel, AWS D1.1/D1.1M: 2002, Miami: American Welding Society, Table 3.1.
- 5 FCAW electrodes with the -2 -2M -3 -4 -7 -10 -11 -13 -14 G -GS suffly shall be excluded
- and electrodes with the -11 suffix shall be excluded for thicknesses greater than 1/2 in.

  Filler metals of alloy group B3, B3L, B4, B4L, B5, B5L, B6, B6L, B7, B7L, B8, B8L, B9, or any
- BXH grade in AWS A5.5 or A5.29 are not prequalified for use in the as-weld condition

### Table 5. PREQUALIFIED WPS REQUIREMENTS (1,2,3)

VARIABLE	POSITION OF WELD	WELD TYPE	SMAW	FCAW	
		Fillet (4)	5/16 in.		
	Flat (F)	Groove (4)	1/4 jn.	1/8 In.	
Maximum Electrode		Root Pass	3/16 In.		
Diameter		Filet	1/4 In.		
	Horizontal (H)	Groove	3/16 In.	1/8 In.	
	Vertical (V)	All	3/16 In.	3/32 in.	
	Overhead (OH)	All	3/16 In.	5/64 In.	
	All	Filet			
Maximum Current	All	Groove weld root pass with opening Groove weld root pass without opening	Within the range of recommended operation by the filler metal manufacturer and	Within the range of recommended operation by the filler metal manufacturer and	
	Cil	Groove weld fill passes	a WPS approved by engineer of	a WPS approved by engineer of	
		Groove weld cap pass	record.	record.	
	Flat (F)		3/8 in.	3/8 In.	
MaxImum Root	Horizontal (H)	All	5/16 in.	5/16 In.	
Pass Thickness (5)	Vertical (V)	OII OII	1/2 In.	1/2 In.	
	Overhead (OH)		5/16 in.	5/16 in.	
Maximum Fill Pass Thickness	All	All	3/16 In.	1/4 In.	
	Flat (F)		3/8 in.	1/2 jn.	
Maximum Single	Horizontal (H)	Fillet	5/16 jn.	3/8 In.	
Pass Fillet Weld Size	Vertical (V)	rillet	1/2 In.	1/2 in.	
	Overhead (OH)		5/16 In.	5/16 in.	
Maximum Single	All	Root opening >1/2 in.	Not applicable.	Split layers	
Pass Layer Width	MI	Any layer of width w	rios appricable.	(6)	
NOTES:					

- . Applicable provisions of AWS D1.1/D1.1M:2002 Section 3 "Prequalification of WPSs" must be maintained for pregualified status of SMAW and FCAW WPSs.
- Refer to Detail 13 on Sheet 3 for diagram of weld pass sequence.
   Adapted with permission from the AWS D1.1 Committee on Structural Welding, Structural
- Welding Code Steel, AWS D1.1/D1.1M: 2002, Miami: American Welding Society, Table 3.7.
- Except root passes.
  See AWS D1.1/D1.1M:2002, Section 3.7.2, for width-to-depth limitations
- In the F. H. or OH positions for nontubulars, split layers when the layer width w > 5/8 inch. In the V position for nontubulars or the 5G or 6G for tubulars, split layers when the width w > 1

## Table 6. STRUCTURAL OBSERVATION CHECKLIST

STRUCTURAL OBSERVATION PROGRAM (Steel Moment Frame for Seismic Application)
Orientation and placement of connected components.
Removal of backing bars, as required on the plans.
Removal of runoff tabs, as required on the plans.
□ Presence of continuity plates, as required on the plans.
Presence of doubler plates, as required on the plans.
□ Configuration and finish of weld access holes, if applicable.
□ Contour of RBS profile, if applicable.
□ Verify that no welded attachments occur in the plastic hinging region.
<ul> <li>Review NDT and deputy inspection reports for general compliance.</li> </ul>

- . Weld qualities shall be verified by the Deputy Inspector.
- 2. The structural observations listed in this Table are in addition to the structural observations that may be required on the structural plans.

## Table 1. REPORTS TO BE SUBMITTED TO THE CITY BUILDING INSPECTOR

		PREPARED BY	TYPE OF REPORT
	1.	Structural Observer(s)	Structural Observation Reports
Г	2.	Deputy Inspector(s)	Deputy Inspection Reports
	3.	NDT Technician(s)	Non-Destructive Testing Reports

### Table 2. NON-DESTRUCTIVE TEST LOCATIONS

	REQUIRED LOCATIONS	OMF	IMF	SMF
1.	CJP Groove Weld  Ultrasonic test shall be performed on all CJP groove welds in materials 5/16 Inch (8 mm) thick or greater. In addition, magnetic particle test shall be performed on all beam-to-column CJP groove welds.	В	Α	Α
2.	"K" Area When welding of doubler plates, continuity plates, or stiffeners has been performed in the k-area, the web shall be tested for cracks using magnetic particle testing. The magnetic particle test area shall include the k-area base metal within 3 in. (75 mm) of the weld.	С	В	В
3.	Beam Cope and Access Hole At welded splices and connections, thermally cut surfaces of beam copes and access holes shall be tested using magnetic particle testing, when the flange thickness exceeds 1-1/2 in. (38 mm) for rolled shapes.	С	В	В
4.	Reduced Beam Section Repair Magnetic particle testing shall be performed on any weld and adjacent area of the RBS plastic hinge region that has been repaired by welding, or on the base metal of the RBS plastic hinge region if a sharp notch has been removed by grindley.	В	В	А
5.	Base Metal Lamellar Tearing and Laminations at CLP Groow Weld Base metal thicker than 1-12 in (38 mm) shall be transocially tested for discontinuities behind and adjacent to the faster line when the base metal is loaded in tension in the through thickness direction in tee and corner joints and the connected material is greater than 34 hr. (19 mm). Any base metal discontinuities found within 45 of the steel surface shall be accepted or nejected on the basis of ortistral of XMS 11.1 able 8.2, where is the thickness of the part subjected to the through-thickness strain.	В	В	А
6.	End of Weld at Weld Tab Removal Site Magnetic particle testing shall be performed on the end of welds from which the weld tabs have been removed, except for continuity plate weld tabs.	С	В	В
7.	PJP Groove Weld  Ultrasonic testing shall be performed on PJP groove welds used in column splices with an effective throat of 3/4 in. (19.1 mm) thick or greater.	С	В	А

### Table 3. NON-DESTRUCTIVE TEST FREQUENCY

	Frequency Designation			
	Α	В	С	
Ultrasonic Testing (UT)	100% of joints	50% of joints	25% of joints	
Magnetic Particle Testing (MT)	50% of joints	25% of joints	Not Required	

- Refer to Table 2 for locations of non-destructive testing.
- Rate of non-destructive testing may be reduced as permitted in Sheet 1, Part IV, Item 8(d).

## Table 4. PREQUALIFIED MINIMUM PREHEAT AND INTERPASS TEMPERATURE

INTERN ASS TEMP ENATURE					
STEEL SPECIFICATION	WELDING PROCESS	THICKNESS OF THICKEST PART AT POINT OF WELDING (in.)	MINIMUM PREHEAT AND INTERPASS TEMPERATURE (°F)		
ASTM A36	low-hydrogen	1/8 to 3/4 incl.	32		
ASTM A572 Grade 50		Over 3/4 to 1-1/2 Incl.	50		
ASTM A913 Grade 50 ASTM A992		Over 1-1/2 to 2-1/2 Incl.	150		
		Over 2-1/2	225		

- 1. Surfaces to be welded and surfaces adjacent to welds shall be free of moisture pursuant to AWS D1.1/D1.1M:2002 Section 5.15. Use a higher preheat temperature from this Table to remove moisture.
- Adapted with permission from the AWS D1.1 Committee on Structural Welding, Structural Welding Code - Steel, AWS D1.1/D1.1M: 2002, Miaml: American Welding Society, Table 3.2.

SITE ADDRESS:

OWNER:

PLAN ASSURANCE Moment QUALITY / **R** Por

STANDA



Sheet 2 of 3

