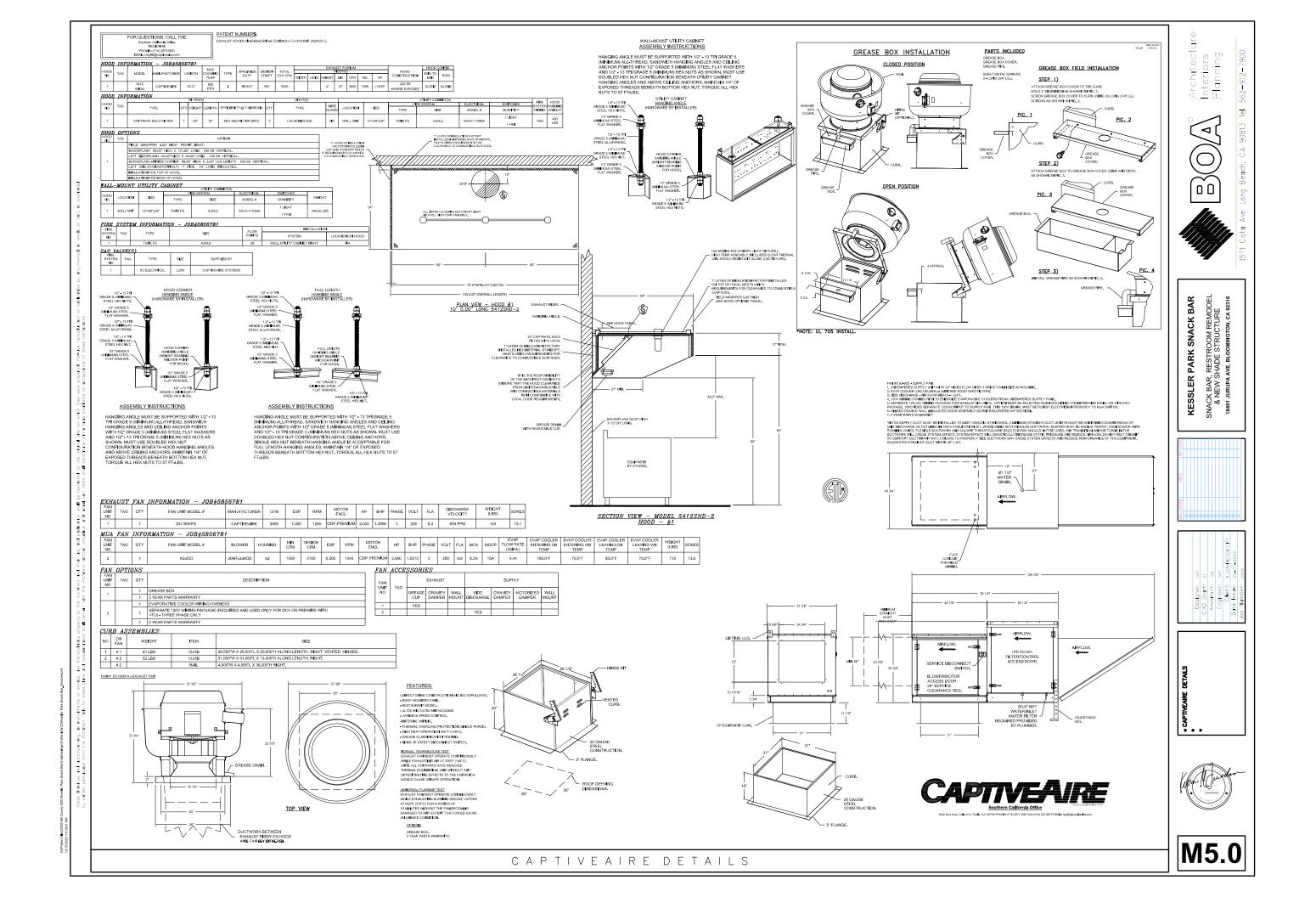
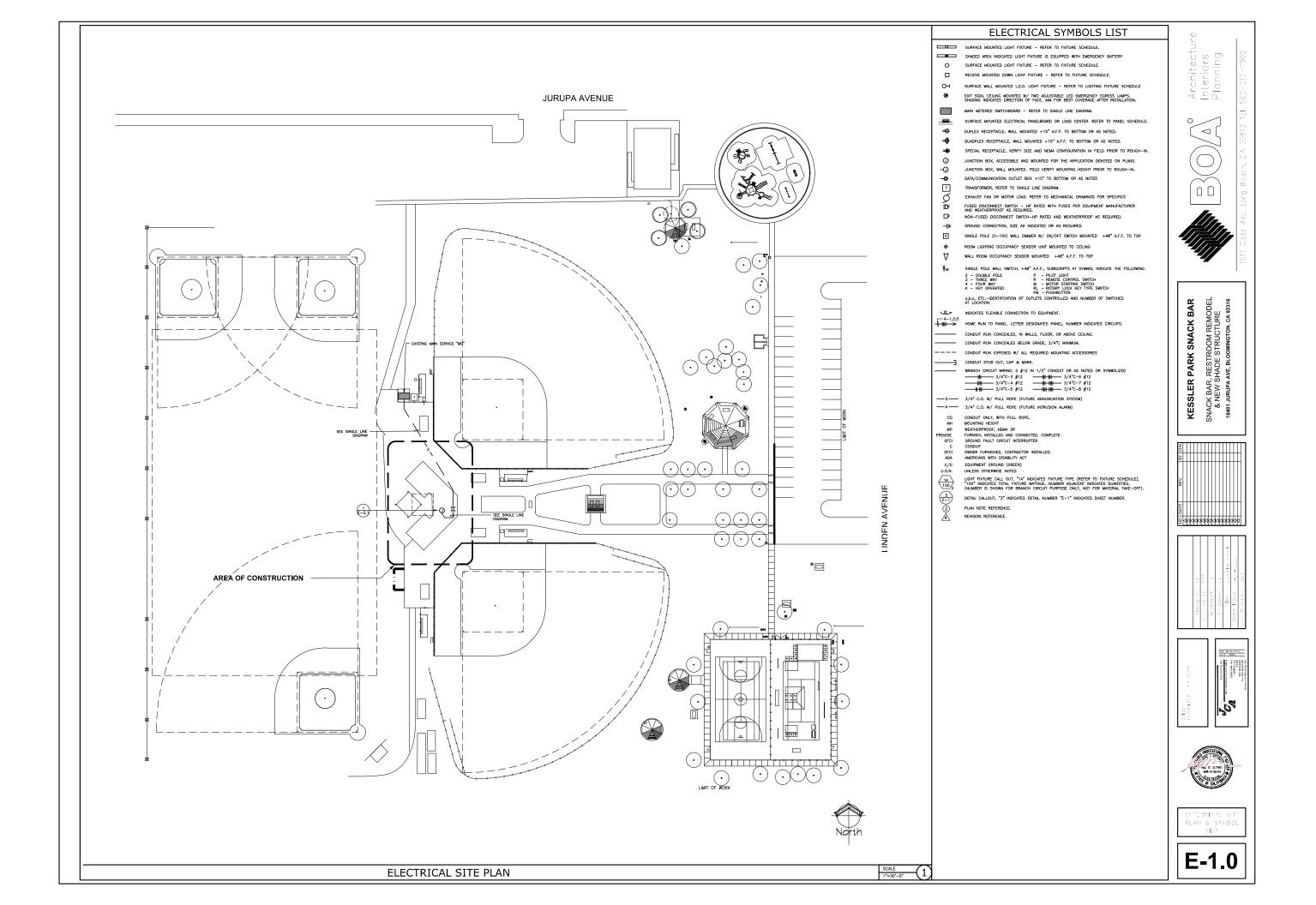
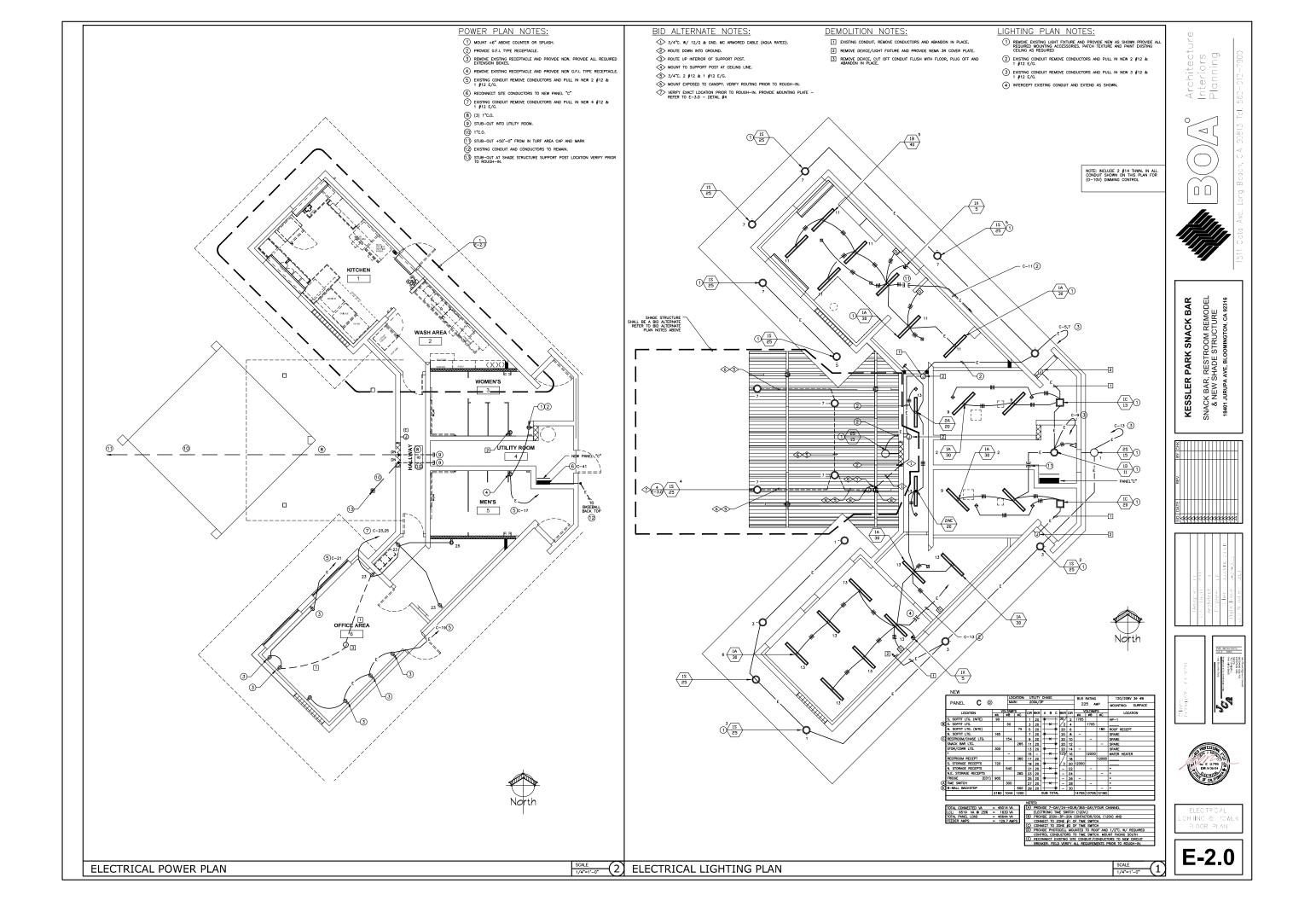


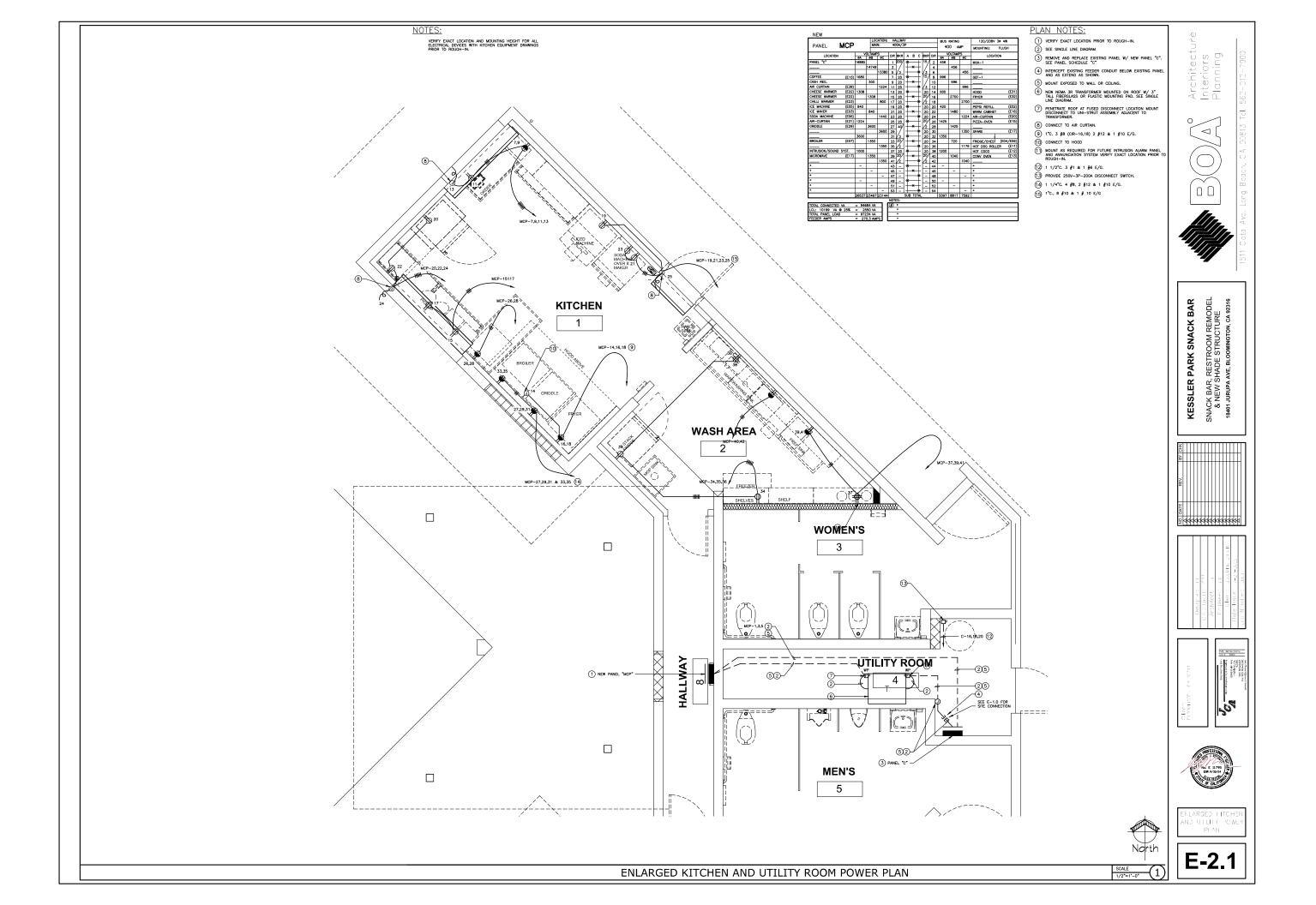
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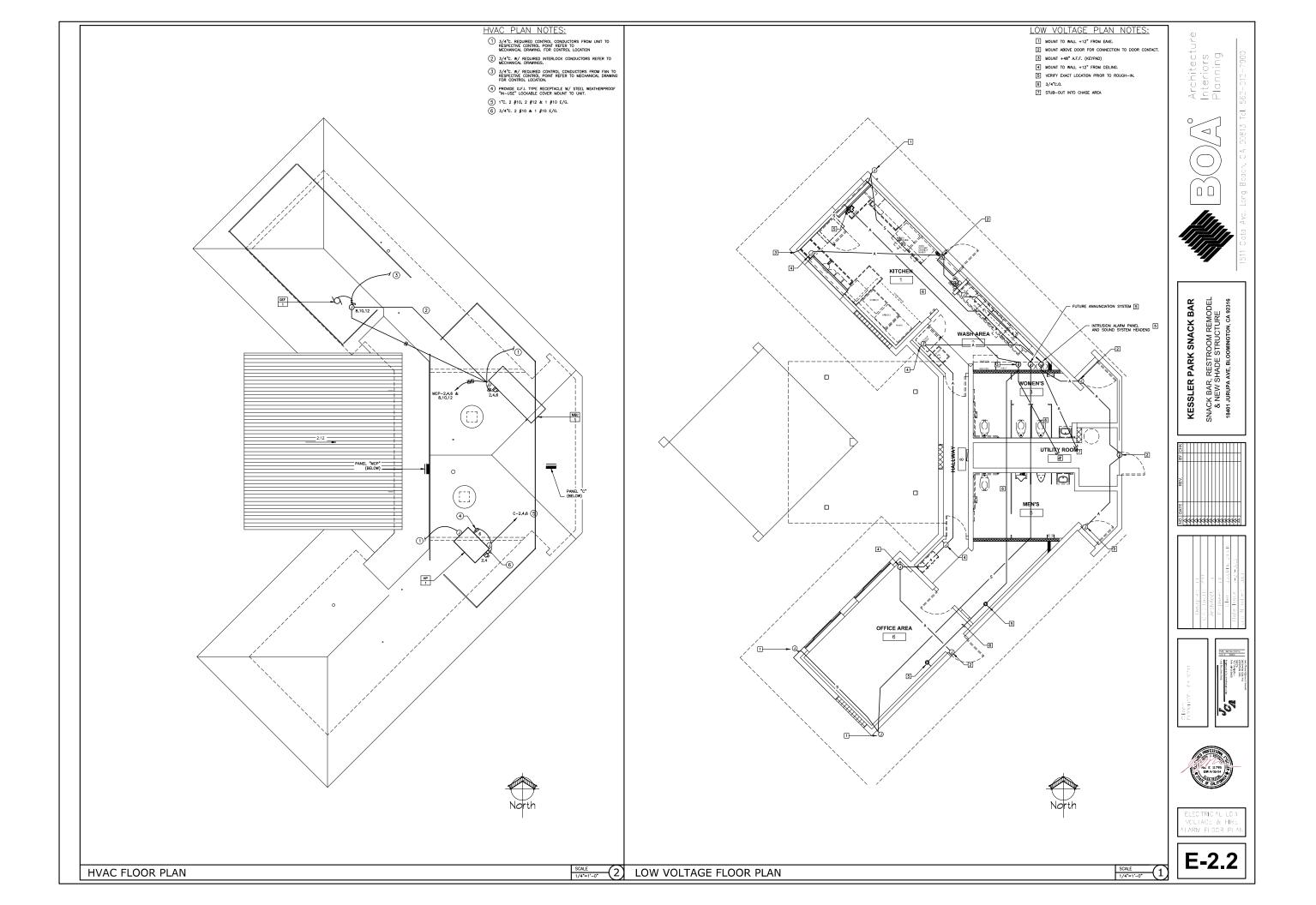
M4.1











GENERAL NOTES SINGLE LINE DIAGRAM NOTES: PROVIDE NEW CIRCUIT BREAKER AS SHOWN MATCH EXISTING MANUFACTURER AND OPERATING CHARACTERISTICS. 5, PANEL BOARDS SHALL BE COPPER "BOLT-ON" TYPE. COMPONENTS AND FEATURES SHALL BE IN STRICT ACCORDANCE WITH THE SERVING UTILITIES, CODE ENFORCING ACENCY, ELECTRICAL DRAWINGS, AND MAIN SERVICE MANUFACTURER AND OPERATING CHARACTERISTICS. Architectu Interiors Planning 2 2 °C, 3 #2/0 & 1 #6 E/G. LIGHTING FIXTURE SCHEDULE (3) 1°c.o. 37. PROVIDE ENGRAVED PLASTIC NAMEPLATES FOR ALL SWITCHBOARDS, PANEL BOARDS, LOAL CENTERS, TRANSFORMERS, AND TERMINAL CABINETS. PLATES SHALL BE 3 PLY, BLACK FACE, WHITE CORE, WITH ¼" HICH GOTHIC LETTERING. REFER TO DIMISION 1, GENERAL REQUIREMENTS, RECARDING PRODUCT OPTIONS AND SUBSTITUTION, WHERE THREE OR MORE MANUFACTURES ARE LISTED IN THE FOLLOWING LIGHTING PRICING, SCHEDULE, SUBSTITUTION WILL NOT BE CONSIDERED. FOR SUBSTITUTION, CONTINCTOR SHALL INCLUDE ONLY SPECIFIED PRODUCTS IN BD. REQUEST FOR SUBSTITUTION WITHIN 35 DAYS FROM THE DATE OF THE MOYNE OF THESE CONTRACT DODUCHETS. PROVIDE 600V-3P-200A NEMA 3R FUSED DISCONNECT W/ (3) 150A-FUSES. MOUNT ADJACENT TO TRANSFORMER ON UNI-STRUT ASSEMBLY. 38. HAND THE OWNER ONE SPARE SET OF EACH SIZE AND TYPE OF FUSE INSTALLED ON THIS PROJECT. 39, PROVIDE TRANSFORMERS, DRY TYPE, WITH THE RATINGS AS SHOWN ON THE DRAWINGS, PROVIDE STANDARD THESE (3) F.C.A.M. / (4) F.C.A.M. ADJUST ALL TARPS TO NORMAL ROTAGES AND AND AS CLOSES S. PROFIDED PROVIDE INSULATION WITH THE TRANSFORMER RES NOT EXCEEDING 115 DEGREES CEISILS, UNDER PILL, LOAD, IN A LOCATION WITH AN AMBIENT TRANSFORMERS SHALL HAVE A N.E.M.A. 3R ENCLOSURE WITH RODENT SCREENS. TYPE VOLTS 3. SICP DRAWINGS SHALL BE SUBJUTED WITHIN THEIT DIVG ATTER WARD OF THE CHAPTER OF CONTRECTOR SHALL SUBMIT SERIO FORES OF, COMILETE IST OF MITTERIAS AND EQUIPACHT INCLUDING MINIFACTURES AND MODEL NUMBER ROPPOSED FOR THE JOB. SHOP DRAWINGS SHALL INCLUDE OB DESCRIPTION, ARCHITECT AND ENGINEER DESCRIPTION, AND ALL DATA WITH CAPACITIES, SIZES, DIMENSIONS, CATALOR NUMBERS, MANUFACTURES'S BROCHUES, AND SUPPORT DATA. 1/x4* LOW PROFILE SURFACE L.E.D. TROFFER W/ POLYCARBON-LENS, SURFACE MOUNT KIT AND DIMMINS DRIVER 7 4"C. 4 #500 MCM & 1 #3 E/G. SURFACE TO CEILING L.E.D. 3500K PROVIDE 250V-3P-400A NEMA 3R FUSED DISCONNECT W/ (3) 400A FUSES MOUNT ADJACENT TO TRANSFORMER ON UNI-STRUT ASSEMBLY. IKIO LED LIGHTING: DELPHI IK-BL14-30W-35K-662187558257 1'x4' LOW PROFILE SURFACE L.E.D. TROFFER W/ POLYCARBONAT LENS, SURFACE MOUNT KIT AND DIMMING DRIVER [^]⊲[SURFACE TO CEILING L.E.D. 3500K 4. SUBMIT SHOP DRAWINGS FOR ALL MAJOR PIECES OF ELECTRICAL EQUIPMENT, WHICH INCLUDES, BUT NOT LIMITED TO: PANEL BOARDS, TRANSFORMERS, LIGHTING FIXTURES, TIME SWITCHE AND ELECTRICAL PRODUCTS. 20 10 1 1/4"C. 4 #4 & 1 #8 E/G. IKIO LED LIGHTING: DELPHI IK-BL14-20W-35K-662187558257 SAME AS "2A" EXCEPT W/ 1 DEMOLITION NOTES SURFACE TO CEILING L.E.D. 3500K 5. THESE PLANS ARE DIAGRAMMATIC ONLY. FOLLOW AS CLOSELY AS POSSIBLE. REFER ARCHITECTURAL DRAWINGS FOR DETAILS, STRUCTURAL DETAILS, EXACT EQUIPMENT AND OUT IT I LOCATIONS. IKIO LED LIGHTING: DELPHI IK-BL14-20W-35K-662187558257-I662187528601 ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR UNLESS OTHERWISE NOTED AND SHALL BE COORDINATED WITH OTHER TRADES. IN GENERAL, ELECTRICAL EQUIPMENT WHETHER SHOWN ON THIS DRAWING OR NOT, THAT IS LOCATED IN REMOVED WALLS, FLOORS OR CEILINGS SHALL BE REMOVED UNLESS OTHERWISE NOTED. 1'x4' LOW PROFILE SURFACE L.E.D. TROFFER W/ POLYCARBONAT GASKETED LENS, SURFACE MOUNT KIT AND DIMMING DRIVER SURFACE TO CEILING L.E.D. 3500K CONTRACTOR SHALL PROVIDE ALL J-BOXES, FULL BOXES, ELLS, OFFSETS ETC. FOR A COMMENCE CODE APPEAR OF THE PROVIDE AND STATE OF THE PROVIDE ASSETS FOR CALCULATION PURPOSES ONLY, AND ARE NOT FOR BIDDING PURPOSES OR MATERIAL TAKEOFF. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND TO COORDINATE WITH MECHANICAL PIECE PROTECTION, AND PULMBRION BORMINGS FOR DUCIS, LINES, AND EQUIPMENT. 6" DIA. RECESSED L.E.D. DOWNLIGHT WITH SEMI-DIFFUSE LOW IRRIDESCENT FINISH, GASKETED LENS AND DIMMING DRIVER L.E.D. 3500K 17 RECESSED IN CEILING 3. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO DISCONNECT AN REMOVE ALL EXISTING LIGHTING PIXTURES RECEPTACLES, ELECTRICAL EQUIPMENT, ETC., AFFECTED BY THE REMODELED AREA. THIS WILL INCLUDE RE-ROUTING OR EXTENDING OF EXISTING COMDUIT AND FEEDERS WHERE NECESSARY TO MAINTAIN THE CONTRIVITY OF THE EXISTING EQUIPMENT OR PRIVES THAT ARE TO REMAN. IKIO LED LIGHTING: IK-DLR6L-17W-35K 7° DIA. ROUND SURFACE L.E.D. LIGHT WITH LENS SURFACE TO CEILING L.E.D. 4000K 120 9. ALL MATERNALS SHALL BE NEW, AND OF THE SAME MANUFACTURES FOR EACH CLASS OR GROUP OF EQUIPMENT, MATERNALS SHALL BE LISTED AND APPROVED BY THE UNDERWRITERS LABORATORIES FOR THE USE AND ENMONMENT, AND SHALL BEAR THE INSPECTION, LABEL, METER SUBJECT TO APPROVED. MATERNALS SHALL MEET WITH THE INSPECTION, LABEL MATERNALS SHALL BEAR THE INSPECTION, LABEL MATERNAL SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANS.S.I., U.L., N.E.M.A., AND N.B.F.U. INSTALL PER MANUFACTURES RECOMMENDATIONS. DURAGUARD: SLR7Q-F-1X11-U-4K-W AREA HIGH ABUSE LED LIGHT W/ POLYCARBONATE LENS 175 A)① SURFACE TO SOFFET OR CANOPY 4. ALL CIRCUIT NUMBERS AND EXISTING CONDUIT RUNS SHOWN ON THESE DRAWINGS WERE TAKEN FROM EXISTING PANEL SCHEDULES AND "AS BUILT" RECORDS. IT SHALL BE THIS CONTRACTOR'S RESPONSIBLITY TO VERIFY EXISTING AND ADJUST CIRCUIT NUMBERS ACCORDING TO EXISTING CONDITIONS IF REQUIRED. LED 4000K 3 AREA HIGH ABUSE LED LIGHT W/ POLYCARBONATE LENS LED 4000K WALL 9 +9'-0" OR AS NOTED 15 1X SINGLE FACE WALL LE.D. EXIT SIGN W/ RED LETTERS, BRUSHED ALUMINUM HOUSING, 90 MINUTE BATTERY PACK AND TWIN LED EMERENCY EGRESS LAMPS BIG BEAM: 2-EDCL-I-R-A-X SURFACE TO CEILING EXISTING CONDUIT FEEDS UP THROUGH FLOOR SHALL BE CUT OFF AND PLUGGED FLUSH WITH FLOOR WHERE EXISTING WALLS, ETC., ARE REMOVED. REMOVE CONDUCTORS FROM THIS POINT BACK TO LAST OUTLET REMAINING IN SERVICE. COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT. SUPPLY POWER AND MAKE CONNECTIONS TO MOTORS AND EQUIPMENT EQUIPMENT SUPPLY POWER AND MAKE CONNECTIONS TO MOTORS AND EQUIPMENT FEQUIPMENT EXPERIENCE, CONNECTIONS AS INDICATED ON THE SINGLE LINE DURIPMENT. OF CONTROL OF THE SINGLE LINE DURIPMENT. DISCONNECTION OF THE SINGLE LINE OF THE SINGLE FOR CONTROLS AND EXPENSE. AND EXPENSE FOR CONTROLS AND EXPENSE FOR CONTROLS AND EXPENSE FOR CONTROLS OF THE SINGLE FOR CONTROLS OF THE SINGLE FOR THE SINGLE F COMPLETE IN WALLS TO BE REMOVED THE EXISTING POWER CONDUIT AND CONDUCTORS SHALL BE REMOVED BACK TO LAST OUTLET REMAINING IN SERVICE. 1 PROVIDE 90 MINUTE EMERGENCY BATTERY PACK 1100 LUMENS MINIMUM. SNACK BAR, RESTROOM REMODEL & NEW SHADE STRUCTURE 18401 JURUPA AVE, BLOOMINGTON, CA 92316 EXISTING CONDUIT MAY BE RE-USED IF ADEQUATELY SIZED PER C.E.C., BUT IN NO CASE SHALL ANY EXISTING CONDUCTORS THAT HAVE BEEN REMOVED, BE RE-USED. PROVIDE ALL REQUIRED MOUNTING ACCESSORIES 12. EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENING IN CONCRETE WALLS OR FLOORS OR STRUCTURAL STEEL MEMBERS SHALL BE AS DIRECTED BY THE STRUCTURAL INSINEER. PERFORM CORNIS, SWALL UTTHIS, PARCHING, AND REPINSHING OF EXISTING WALLS AND SURFACES WEREVER IT IS NECESSARY TO FENETRATE. OPENINGS SHALL BE SEALD IN AN APPROVED METHOD TO MEET THE PIRE MATING OF THE PROPERTY OF CONTRACTOR SHALL PATCH ALL WALLS AND CEILINGS WHERE ELECTRICAL DEVICES ARE REMOVED. 4 REFER TO DETAIL #4 FOR MOUNTING PLATE REQUIREMENT EXISTING JUNCTION BOXES TO REMAIN SHALL HAVE BLANK STEEL COVER PLATE PROVIDED. 5 AIM FOR BEST COVERAGE AFTER INSTALLATION 11. ALL EXPOSED INTERIOR AND EXTERIOR CONDUCTORS AND CABLES SHALL BE COMPLETELY REMOVED **-(2)** 12. ALL EXISTING LIGHT FIXTURES, SWITCHES AND RECEPTACLES SHALL BE REMOVED AND REPLACED **—**⑤ 14. ALL CONDUIT SHALL BE INSTALLED CONCEALED WHERE PHYSICALLY POSSIBLE #1/08)- CONCEALED CONDUIT SHALL BE ELECTRICAL METALLIC TUBING (E.M.T.) WITH COMPRESSION TYPE COUPLERS. SECURED WITH ONE-HOLE PIPE STRAPS. 16. P.V.C. CONDUIT SHALL BE USED UNDERGROUND ONLY, IF APPROVED BY LOCAL CODE. INSTALL PER ALL REQUIRED LOCAL CODES. ALL UNDERGROUND CONDUIT SWEEPS, UNDERGROUND RISERS, AND STUBS ABOVE GROED SHALL BE LINC. WITH HALF-LAPPED TAPE COVERING OR FACTORY INSTALLED P.V.C. COATING. ROUTE ALL UNDERGROUND CONDUITS AROUND PROPOSED BULIDION AND TOUTURE BULIDION CLOTHONS. POWER CONDUITS PER PLANS NEW PANEL "MCP" 17. UNDERGROUND CONDUIT INSTALLATION DEPTH SHALL BE PER THE FOLLOWING CURRENT N.E.C.: +30° BELOW TURF +30° BELOW CONGREE AND ASPHALT +30° BELOW 4° NON VEHICLE CONCRETE OR ASPHALT +30° BELOW STREETS, INCHINISTA, ALLEYS, DI FINISH GRADE MIN. TOP 18. THE CONTRACTOR SHALL EXCAVATE ALL TRENCH DEPTHS AND WIDTHS PER THE C.E.C. AND SHALL COMPACT ALL EXCAVATIONS IN A CONTINUOUS LAYER OF NOT MORE THEN 8° COMPACTED DEPTH TO THE RECURRED DENSITY OF NINETY PERCENT (90%). THE CONTRACTOR SHALL ATTAIN THE SPECIFIED COMPACTION DENSITY BY MAINTAINING THE OPTHIMUM MOSTORY CONTRACT OF THE FILL MATERIA. 19. ATTENTION IS CALLED TO THE FACT THAT THERE ARE EXISTING UNDERGROUND UTILITY UNES, THEREFORE, THE CONTRICTOR SHALL USE EXTREME CAUTION WHEN TRENCHING FOR HIS REPAIR OF ANY MON ALL DAMAGES CAUSED BY HIM OF HIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAW CUTTING, TERNCHING, BUCKFILLING, COMPACTION, AND PATCHING OF CONCRETE AND ASPHALT AS REQUIRED TO PERFORM HIS WORK. lada v IMPORTED SAND COVER w/0.5 MAX. AND S.E.= 30 OR GREATER 90 % 20. ALL CONDUIT ONLY (C.O.) SHALL HAVE A 3/16" PULL WIRE OR ROPE, MINIMUM. 21. CONDUIT SHOWN AS EXPOSED OR APPROVED FOR EXTERIOR EXPOSED INSTALLATION SHALL BE INTERMEDIATE METALLIC CONDUIT (LM.C.). SECURED WITH TWO—HOLE MALLEABLE PIPE STAMPS AND SCENES. ALL BOXES AND FITTINGS SHALL BE SUPPORTED AND SECURED IN COMPLIANCE WITH CLEC. ARTICLE 370. CONDUIT SPACERS (SADDLES) TYP. LOAD SUMMARY 22. CONDUIT SHOWN AS EXPOSED OR APPROVED FOR INTERIOR EXPOSED INSTALLATION, IN NON-PUBLIC AREAS, SHALL BE E.M.T. INSTALLED IN PARALLEL OR IN RIGHT ANGLES WITH ALL REQUIRED MOUNTING ACCESSORIES. 23. PENETRATIONS TO FIRE—RATED MATERIALS SHALL BE RESTORED TO EQUAL RATING AS REQUIRED BY THE STATE FIRE MARSHAL AND ALL OTHER GOVERNING BODIES. = 192.0 KVA = 46.9 KVA = 97.2 KVA = 243.3 KVA or 290.8 AMPS @480/277V. 3ø 4W. EXISTING CONNECTED LOAD REMOVED LOAD ALL UNDERGROUND CONDUITS PVC SCH. 40 UNLESS NOTED OTHERWISE ON PLANS 24. ALL CONDUCTORS OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN COMPLIANCE WITH O.S.H.A. 2. THIS DETAIL TO VARY PER EXACT SITE REQUIREMENT AND CONDUIT INSTALLATION 25. THE COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH THE PRESENTLY ADOPTED EDITION OF THE C.E.C., ARTICLE #250. 26. CONDUCTORS SHALL BE CODE GRADE, 600 VOLT CLASS, COPPER, MARKED 24" ALONG IT'S LENGTH SHOWING MANUFACTURER'S NAME, MAXIMUM ALLOWABLE VOLTAGE AND SIZE. CONDUCTORS SHALL BE TYPE "THIN" (WET) OR "THIN" (DRY). DELIVER CONDUCTORS TO THE JOB SITE IN UNBROKEN PACKAGES. -(1)SINGLE LINE DIAGRAM SCALE N.T.S. TRENCH DETAIL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, CONTROL WIRES, AND OUTLETS FOR COMPLETE CONNECTION TO MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS FOR CONTROL SCHEMATICS. P.M. James Corns 29. REVIEW ARCHITECTURAL ELEVATIONS OF CASEWORK. OUTLETS MOUNTED ABOVE, BELOW, OR ADJUCENT TO CASEWORK SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWNINGS, PRIOR TO FINAL ROUGH-N. DECETTION, DRAWNINGS SHALL COVERN NUMBER AND TYPE OF OUTLETS. PROVIDE CONDUIT, WIRES, AND OUTLETS FOR WORK REQUIRED ON CASEWORK MISTALLATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT-OUTS IN THE WHERE ELECTRON, DEVICE COOR. PROVIDE BOX EXTENSIONS THROUGH ALL CASEWORK. FINASH FLUSH WITH FACE OF CABRIC. DRY TYPE TRANSFORMER NEMA 3R WELD OR BOLT PLATE " ON ALL SIDES PROVIDE ALL HANGERS, CLIPS, SEISMIC SUPPORTS, LENSES, ETC. PER ALL REQUIRED CODES FOR A COMPLETE LIGHTING FIXTURE. 33. PROVIDE THE OWNER WITH ONE (1) SET OF COMPLETE, UP TO DATE, "AS-BUIL!" REPRODUCIBLE DRAWNISS AT THE COMPLETION OF THE PROJECT, SHOWING ACTUAL DEPTH-OF UNDERGROUND CONDUIT ROWS AT ALL LOCATIONS. ALL BRECHUES, OPERATION MANUALS, CATALOSS, SHOP DRAWNISS, ETC. SHALL BE TURNED OVER TO THE OWNER AT PROJECT COMPLETION. TAP AND THREAD PLATE FOR LIGHT FIXTURE MOUNTING SCREWS 34. THE COMPLETE PROJECT SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR, AFTER DATE OF ACCEPTANCE, BY OWNER. ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE PAULTY DURING THAT PERIOD SHALL BE CORRECTED IN A TIMELY MANNER, UPON WRITTEN MOTIFICATION, AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR. PROVIDE 16"x16"x1/2" STEEL PLATE. PAINT TO MATCH STRUCTURE BEAMS FIBERGLASS OR POLYMER PAD 35. WHERE A CONFLICT OCCURS BETWEEN THESE NOTES, THE ELECTRICAL DRAWINGS OR THE ELECTRICAL SPECIFICATIONS ISSUED AS A PART OF THESE DOCUMENTS, THE MORE STRINGENT REGULER/ENT SHALL PREVAIL. IMBOL LIST, G. **BID ALTERNATE** E-3.0

SHELTER LIGHT DETAIL

TRANSFORMER DETAIL

-(2)

F. No running threads will be permitted in locations exposed to the weather, in concrete or underground. Use special watertight union fittings in these locations.

C. Use PVC Schedule 40 or 80 for all underground conduits. Install all underground conduit at a depth of not less than 24 inches locked the final finishing poles, unless under concrete abits or otherwise noted and/or specified, and the second of the seco

H. Cut and patch all povements, curbs, sidewalks and gutters, whenever necessary for laying conduit, or whenever damaged by the operations of this trade. Replace materials with quality and finish equal to that removed or damaged.

I. Where conduit extends through roof to equipment on roof areas, provide weatherproofing as specified in the appropriate section of these Specifications.

3. Sport all cooks! In internal set last than 1/5 of one with 0.35 sches from any cutte and of soon dole of tends and above the sportaned, recorded conditionports, here yeteraped, one medical condition comparation of the property of th

K. Use rigid golvanized steel or LM.C., threaded, for exposed conduit runs. Install parallel or perpendicular to walls, structural members or intersection of vertical plane and ceilings. Avoid field made bends and offsets where possible. Do not install curvated or deformed roceways.

L. Provide metal sleenes and leafal where contails passes through missorry or concrete valls. Use No. 20 gauge painwistes steel steenes, no more than 1/2 inch greater in demater than the outside disneter of the consult. Or contail into severe will stose use old, based or Oslaum and everherproof below groats, where consult passes first care work, based or Oslaum and everherproof below groats, where consult passes from the containt in the containt is severe to the containt in the containt is severe to the containt in the containt is severe to the containt in the containt in the containt is severe to the containt in the containt is severe to the containt in the containt in the containt is severe to the containt in the containt in the containt is severe to be contained to the containt in the containt is contained to the containt in the containt is contained to the containt in the containt in the containt is contained to the containt in the containt in the containt is contained to the containt in the containt in the containt is contained to the containt in the containt in the containt is contained to the containt in the containt in the containt is contained to the containt in the containt in the containt is contained to the containt in the containt in the containt is contained to the containt in the containt in the containt in the containt is contained to the containt in t

M. Provide a heavy nylon cord pull rope in all empty conduits for future use. Leave in place for future use in all runs and tagged with plastic tag at terminating end indicating the location of the apposite end of the conduit.

N. Use factory-manufactured ells, except where noted otherwise. Field bends are permitted for EMT conduit less than 1° diameter. Conduit radius for signal system is ten times the internal diameter of the conduit.

P. Use watertight gland compression type connectors and couplings on fittings for thin wall metallic conduit. Screw type or crimp type are not permitted.

Q. Wire all rotating electrical equipment with flexible, liquid-tight conduit with appropriate slack from disconnect switch to

R. Install expansion coupling at all expansion joint locations, refer to Architectural. Drawings for local

S. Use approved type-bending machines for PVC conduits. Use of blow torch is prohibited

T. For grouping, use conduit trapezes made up of suitable Unistrut or Kindorf hangers,

U. Seal or cap all underground conduit ends for a waterlight installation at conclusion of project.

3.6 INSTALLATION OF CONDUCTORS:

A. Unless otherwise indicated or specified, do not install conductors of less than No. 12 ANG size. For control conductors protected by 15 ampere or lower overcurrent protection, No. 14 ANG conductors will be installed. Where approved by Code, remote control and signal circuits utilize No. 18 or No. 16 ANG sizes. Increase No. 12 to No. 10 ANG for 120 volt thank runs exceeding 75 feet.

B. Color code power wire and cable for feeders and branch circuits.

C. Install all electrical conductors, including signal and communications circuits in an approved receiver.

D. Neetly group conductors in praets, satisfapers and terminal cabetes, etc., and form in a morse to fin into terminals with regular spacing. Lace formed groups of conductors with the 12 sevent lance, or Parabil Co. Nyfon Streps Numbers SST-4-11 or SST-27. Loss larger conductors with mortin and secure with cleats, or Parabil Co. Nyfon Streps Numbers SSC-4-11 and 5 central Fa-1, Ta-2 or TIII 1-2-3.

E. Install II.I. approved covered wire from all lighting fixture large speckets into outlet or junction have

3.7 WIBING COLOR CODE
2081/120 Volt System
Phase A – Black.
Phase B – Skalch Leg – Black with 'S' tag.
Phase B – Red.
Phase B Switch Leg – Red with 'S' tag.

Phase C - Switch Leg - Blue with 'S' tag.
Phase C - Switch Leg - Blue with 'S' tag.
Travelers - Yellow.
Reutral - White.
Equipment Ground - Green.

B. 480/277 Volt System
Phose A — Brown Phose A — Brown.
Phose A Switch Lag — Brown with "S" tag.
Phose B — Orange.
Phose B — Orange.
Phose C — Yellow.
Phose C — Yellow.
Trovelers — Yellow with "S" tag.
Trovelers — Yellow with "I" tag.
Reatrol — Gov.
Equipment Cround — Green with Yellow stripe.

C. Provide identification tags on each conductor end

A. Attach outlet boxes on metal studs with TEC screws. Use wood screws for attachment on wood studs. Nails are not

B. Cover all boxes with outlet box protector, Appleton SB-CK or approved equal. Keep plaster and dirt from entering box or panels. If plaster does get in, removed it prior to pulling in wires.

3.9 CONDUCTOR JOINTS AND TAPING:

Make joints in conductors smaller than No. 6 ARC with solderless, tapeless, sing nut type pressure coble connector. Join conductors No. 6 ARC and larger together with approved type or pressure connector and tape to provide insalation not less than that of the conductors. While connections to sealch or bus ber with one-piece copyer lags for conductors No. 5 ARC or targer.

Provide grounding for entire electrical installation as required by the serving ubility and codes mentioned in these specifications. Including:

A. Conduit.

3.10 GROUNDING:

B. Neutral or identified conductor of interior wiring system

D. Non-current carrying metal parts or fixed equipment

E. Electrical panels in separate buildings.

Provide copper transformers manufactured with the minimum following attributes:

1. Dry type, with the ratings shown on the Drawings.

2. Provide atmodrat tops FOAN/TON.

3. Adjust all taps to nominal 120%, 208%, or 480%, as close as practicable and as required for the voltage infacted.

Provide insulation with temperature rise not exceeding 150 degrees C, under full load, in an ambient temperature of 40 degrees C.

Provide transformers manufactured in accordance with current standards of IEE, ANSI, and NEMA, and provide UL listing and label.

D. Install the transformer case on suitable vibration isolators, and connect on primary and secondary sides with minimum of 18" of liquidtight flexible metallic conduit.

E. Where drawings specify transformers suitable for non-sinusoidal current load of specified "K Factor", the transformer shall be U.L. listed specifically for that application.

A. Provide copper conductors, 600 volt A.C. unless noted otherwise. Aluminum conductors are not permitte

B. Use THWN conductors for underground and damp locations, THHN for dry greas,

C. Deliver conductors to the site in unbroken pockages, marked with the manufacturer's name, date of manufacture, voltage and classification letters. Use only wire recently manufactured (10 months or less).

D. Provide signal service and low voltage control conductors as specified or noted on the drawings E. No conductor supplying 120 volts or more will be smaller than No. 12 AWG unless otherwise noted on the drawings

F. Fixture wire to comply with latest requirements of the National Board of Fire Underwriters. The carrying capacity of the wire as per the latest requirements of the National Electrical Code. No fixture wire may be smaller than \$18\$ gauge. Protect siming with tape or tubing of all points where charaction is likely to occur.

G. Install all conductors of each electrical system in an approved raceway. Factory assemblies, non-metallic/pliable/corrugated raceways, type UF cable or multi-conductor assemblies are not approved.

H. Use solid conductor, size #10 AWG and smaller stranded for #8 AWG and larger

2.11 JUNCTION AND PULL BOXES:

Abour grode level, provide spelvonised junction and paid boson with emprovide covers, secured with mobiles acrees. The sizes of all bosons determined by the number and desor conduction restricting to box, and by the acree of coolid immediate in the skill beneficially in the value of the sizes of coolid immediate in the size of coolid immediate with profit of sizes of sizes of coolid immediate in the size of coolid imm

A Provide galvanized outlet boxes and covers, one piece pressed steel, knockout fixture outlets equipped with $3/8^*$ fixture study and plaster rings.

B. Where standard boxes are not suitable, provide boxes of special design to fit space.

C. Cast aluminum or cast iron for outlet boxes exposed to weather, in damp locations, or surface mounted with threaded hubs for conduit connections; cover made watertight with gasket and non-ferrous screws.

D. Provide outlet boxes in plaster covered walls with raised covers or plaster rings to finish flush with plaste

A. Local single pole switches: Flush tumbler type A.C. rated quiet type, heavy duty, back or side wired with binding screws, 204, 120/277V rated switches, Bryant Hubbell or Leviton Sierra or Arrow Hart Two pole, three-way and lock type of the same manufacturer, white, unless noted Arrow thart two pole, three—way and lock type of the same manufacturer, white, unless noted otherwise on plans. B. Horsepower roted and approved for motor control service on switches controlling or disconnecting single—phase motor loads in excess of 1/3 hp. Switches complete with overfood devices of proper motor nameplate roling.

2.14 RECEPTACLES: A. Convenience outlets consist of a duplex convenience receptacle mounted in an outlet box in the wall, flush with the finish surface and complete with plate.

B. Receptacles for convenience outlets: Standard duplex, 3-wire grounding type 15 ampere, 125 volt, Hubbell, Bryant, Leviton or Arrow Hart white, unless otherwise indicated.

C. isolated ground autlets: standard duplex 4-wire isolated ground type 20 ampere, 125 volt, Hubbell, Bryant Leviton or Arrow hart white, unless otherwise shown on plans

D. Weatherproof G.F.C.J. receptocles: 15 ampere, 2P 3-wire grounding type, 125 volt with gray steel, lockable lift bubble cover plate, Hubbell #GF5262, unless otherwise shown on plans.

A. Provide stainless steel plates for all switches, convenience outlets, telephone outlets and all other similar outlets, unless otherwise specified or noted. B. Provide stainless steel lockable plates for all convenience outlets in public areas, unless otherwise specified or noted.

C. Television and telephone outlet cover plates to match jack. 2.16 NAMEPLATES:

Shall be micratio or lamacoid plate, 1/8° thick and have approved size, with beveled edges and engraved white letters on black back-ground. Provide nanespites for all litems of electrical equipment as well as circuits in the service distribution and power distribution prosthocatic plating distribution prostoration, separately mounted enfort sattrials exclusive, disconnect selective, motor control purbulator stations and other similar devices. Each nanespite as approved by the Architect. Use two machine screens for attachment. Cement/Ordenies in all approved.

3. PART 3. EXECUTION

3.1 If construction of building reveals that any part of the Electrical Work would not be readily accessible if installed according to drawings, notify the Architect before proceeding with such installation.

3.2 All concrete work such as pull boxes, raised pads, conduit envelopes and other areas where affecting Electrical Work are the responsibility of the Electrical Contractor.

3.3 Coordinate layout and installation of electrical work with the overall construction schedule and work schedules of various trades to prevent deby in completion of the project.

A Verify dimensions and information regarding accurate location of equipment, structural limitations, and finish with other affected sections.

B. Job Conditions:

The drawings do not always show offsets, bends, special fittings or junctions or pull baxes necessary to meet job conditions. Provide the items as required at no cost to the Owner. C. Weatherproof Equipment:

Use weather resistant electrical devices or equipment located in damp, semi-exposed areas. Comply with NEMA Type 3R requirements for enclosures.

D. Where devices are shown diagrammatically in the same location, neatly group them together in a reasonable manner. Provide one-piece plate where such is manufactured. E. Equipment requiring electrical under other sections is part of the Contract. Work includes all necessary connections

3.5 CONDUIT:

A. Install all conduit concealed, except where specifically indicated as exposed. Use rigid galvanized steel or I.M.C. for all exposed conduit. Paint with two coats to match adjacent surroundings, if viewed by the public.

B. Use galvanized rigid steel on all conduit installed in concrete and masonry walls, 3/4 inch trade size minimum, unless otherwise specified and/or noted on the plans. Verify conduit runs in concrete slob, prior to placement. Otherwise, do not run conduits in alphs.

C. All conduit installed in the dry walls or dry ceilings of the building structures, shall be steel tube (EMT), except that in certain locations and for certain runs where it is improcticed to install EMT, and where permission to do so has been of when by the Krichtect, golvaniered flexible steel conduit may be used, with a code sized ground conductor. D. Run conduit so as not to interfere with or contact other piping, fixtures or equipment. Maintain 6* separation from water 2. PART 2. PRODUCTS

A. Provide the automatic circuit breaker type, quick-make and quick-break panelboards. Provide wiring gutter sides, top and bottom.

B. Provide panelboards from the same manufacturers as the main switchboard; type, mounting, and size as noted on the drawings with siver-plated copper bussing.

C. Where space is called for on the panelboard schedules, provide space and mounting for future circuit breaker installation as indicated

E. Where called for on the drawings, provide a separate compartment within the panelboards for contactors and/or time

2.2 CIRCUIT BREAKERS:

Provide crost breakers with neverse time characteristic thermal and magnetic tripping elements, with an interrupting apposity of act seekers to 100 cents with a contract the contract tripping and the contract tripping to the material provides and the contract tripping to the material provides and the contract tripping to the contract tripping tripping

2.3 POWER DISCONNECT SWITCHES

A. Provide power disconnect switches having product construction requirements as specified and/or indicated. Where not otherwise indicated, the following requirements apply:

1. Enclosure: NEMA I, surface type in dry locations. Use NEMA 3R for exterior locations.

2. Ratings: Voltage, ampacity, horsepower and inductive ratings complying with power source valtage and characteristics of load controlled.

3. Mechanism: Heavy-duty, quick-make, quick-break, with voidable interlock to prevent opening enclosure in "ON" position. External lockable handle operation with provision for not less than two padlocks.

Poles and Fusing: Comply with load requirements. Provide unfused switches except where fusing is indicated or required to comply with Code Requirements. Where fuses are installed, use dual-element time delay fuses.

B. Provide power disconnect switches of the following manufacturers with characteristics complying with load and power source indicated:

1. Westinghouse: Type HF or HU.

2. General Electric: Type TH.

3. Square D: Type HD or HU. B. Provide the number of poles necessary to include a pole for each ungrounded conductor. Equip switch with neutral terminal point where neutral is present. Do not switch neutral unless indicated.

2.4 PUSHBUTTON STATIONS AND CONTROL DEVICES:

Install control relays for automatic controls or for interlocking as indicated in the drawings. Provide relays with the number and type of potes and with operating coils as indicated. Equip relays with contacts roted not less than 15 amperes for continuous inductive load, unless otherwise shown or secelified. Rate operating coils for continuous dury of the operating voltage shown on the drawings.

A. Provide (in a location designated by the Owner) a spare fuse cabinet with the following:

1. Nameplate "spare fuses".

2. Necessary fuse holders.

3. Soore set of each size and type of fuses.

B. Provide dual element fuses for all 600 volt or lower voltage requirements unless otherwise indicated or specified. Where fuses are not made for this application, furnish Buss "Limitron" or approved equal fuses.

C. Provide Bussman Fuses as indicated on plans.

D. Replace fuses "blown" or damaged during construction with new fuses of proper rating and type for the particular use, replace spare sets. 2.7 LIGHTING FIXTURES:

A. Verify all fixture locations with Architectural drawings prior to rough in. B. Where there is conflict in fixture quantities on any of the plans the greatest amount will prevail. The description of the lighting fixture supersedes the catalog number and is to be furnished and installed with type to fit description.

2.8 CONDUIT AND FITTINGS: A. Rigid Conduit (RGS): Hot dipped galvanized or sherardized steel. Republic Steel Co. or approved equal. Intermediate metal conduit may be used, where CEC allows, in lieu of RGS.

B. Electrical metallic tubing (EMT): Welded, electro-galvanized thin wall steel tubing. All couplings are gland compression

C. Non-metallic conduit (PVC): Polyvinyl chloride Schedule 40 or 80. Install a copper ground wire, sized per National Electrical Code, in all non-metallic conduit power raceways. Use PVC in underground installations only. D. Liquidtight Flexible Metal Electrical Conduit: Hot-dipped galvanized steel with extenor, molded polyvinyl jacket. Use for all final connections to all vibrating equipment, transformers and the like. 18" maximum. Provide a code sized ground

E. Flexible metallic steel tubing: Liquid tight without a nonmetallic jacket. Use as allowed by code and where permitted by this Specification, section 3.06.C. Provide a code sized ground conductor.

F. Condulet Type Fittings: As manufactured by Crouse Hinds Company, Appleton Electric Company or Pyle National or approved equal, smooth inside and our, taper threaded with integral bushings.

SECTION 16000 1. PART 1 GENERAL REQUIREMENTS

1.1 SCOPE OF WORK

A. The work covered by this section consists of furnishing and installing all I, materials, equipment, fixtures and performing all labor and operations for complete and operable systems.

B. Provide all new materials, unless noted otherwise, of the best quality, and in perfect condition, and materials of the same make and quality throughout the work and as hereinafter specified. Comply with the requirements of ASTM, NEMA.

U.L., and NEMI for materials and equipment.

C. The infent of these specifications is to establish a standard of quality of materials installed. Include materials as specified without exception in the Bose Bid. Solvain life approved up proposed substitution, complete descriptive, the exception is the state of the state of

D. Where a substitution alters the design or space requirements indicated on the plans, Contractor is responsible for all additional cost for Engineering to revise plans.

E. Verifying Drawings and Job Conditions:

1. Examine all drawings and specifications in a manner to be fully familiar of all work required.

2. Visit the site and verify existing conditions. Where existing conditions differ from drawings, make adjustments and allowances for all necessary equipment to complete all parts of the drawings and specifications.

Submit drawings in six sets accompanied by letter of transmittal listing the number and dates of the drawings submitted.

Mark the drawings submitted with the name of the project, numbered consecutively, and bearing approval as evidence that the drawings have been checked. Any drawings submitted without this approval will be returned

3. Submit Shop drawings on, but not limited to, the following:

a. Transformers d. Electrical Product b. Lighting Fixtures e. Time Switch c. Panels f. Contactor/Coil

G. Drawings of Record:

Provide and leep up-to-date, a complete record set of blue line prints. Show every change from the original drawings, feep this set of prints on the job site, and use only as a record set. Do not make changes in the legal sithout setting the prints of th

H. Accuracy of Plans and Specifications:

I. Permits, Fees and Insurance:

Obtain and pay for all insurance, permits, etc. necessary for this Contract

J. Codes and Regulations:

All sori: performed under this Section of the Specifications complies with the rules and regulations of the Division of Indiand Solely, Siles of Colifornia, on set forth in the lotter edition of the Exectrical Solely Officer, the National Proceedings of the Section Solely Officer, the National Section Title 21 and 24 Colifornia Administrative Code local codes brong practicion, including the presently optical edition Title 21 and 24 Colifornia Administrative Code

K. Testing and Adjustment:

M. Removal of Rubbish:

Test all circuits, outlets, switches, lights, motors, circuit breakers and any other electrical equipment, upon completion of all electrical work.

L. Guarantees of Materials and Workmanship:

Furnish and install all materials under this Contract, new and free from all defects, and guaranteed for a period of two years from the date of acceptance of the work. Should any trouble develop during this period due to defective moterial or foodly sentimentally, famined in necessary labor and materials to correct the trouble willhood additional cost to the Contract. Correct any defective material or inferior workmanatis noticed at the time of installation immediately, to the satisfaction of the Architect.

Remove rubbish, excess materials, tools or equipment related to this portion of the work, frequently during construction and upon completion of the work.

N. Drawings and Specifications: The electrical drawings are considered as part of these specifications, and any work or materials shown on the drawings and not mentioned in the specifications, or vice versa, shall be as if specifically mentioned in

2. The data benin specified and shown on the drawings is as exact as could be prepared, but their extreme occuracy is not guaranteed. The drawings and specifications are for assistance and guidance. The histolation is essentify as aboun and specified. The exact bordion of the equipment, moteral, apportula and devices as sell as the distances and levels, are more or less governed by the physical conditions and arrangements of the building. Accept this Controct with this understanding.

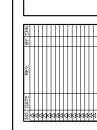
Make minor changes, when ordered by the Architect, accommodating the installation of the work with other sections of the Contract without additional cost to the Contract.

It is the Contractor's responsibility to prevent any damages to personnel and/or property resulting from contact with new or existing energized circuits, switches, circuit breakers, or other electrical apparatus. All electrical work to be constructed with electrical switches de-energized in the area of work.

P. Final Inspection and Acceptance: After all requirements of the specifications and drawings have been fully completed, a representative of the Owner will inspect the work. Provide competent personnel to demonstrate the operation of any item or system involved to the complete satisfaction of each representative. ors

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SPECIFIC ALION

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, RESTROOM REMODEL SHADE STRUCTURE AVE, BLOOMINGTON, CA 92316

FIXTU	IRE SCH	IEDUL	.E			
MARK	SERVICE	cw	HW	w	v	REMARKS
HB-1	HOSE BIB	1/2"	-	-	-	ACORN 8151/ INTEGRAL VACUUM BREAKER RECESSED HOSE BOX
3CS-1	3 - COMPARTMENT SINK	1/2"	1/2*	2"	2"	REGENCY 16 GAUGE STAINLESS STEEL THREE COMPARTMENT SINK WITH NO DASHBOARD
AP-1	ACCESS PANEL	-	-	-	-	JL INDUSTRIES TMS WITH SCREW DRIVER - OPERATED STEEL CAM CLOSING MECHANISM
ET-1	EXPANSION TANK	-	-	-	-	AMTROL ST-5
FD-1	FLOOR DRAIN	-	-	3"	3"	J.R. SMITH FIG. 2115—1 FLOOR DRAIN WITH DUCO CAST BODY, ROUND HEEL PROOF ADJUSTABLE STRAINER GRATE WITH COMMON FRONT AN BACK DOUBLE DRAINAGE FLANGE, WEEP HOLES, 2" HUBLESS; FURNIS WITH TRAY PRIMER CONNECTION
FS-1	FLOOR SINK	-	-	2*	1-1/2*	PROVIDE HEEL-PROOF GRATE, TRAP PRIMER CONNECTOR
GD-1	GARBAGE DISPOSAL	1/2"	1/2*	2"	2"	INSINKERATOR MODEL EVOLUTION EXCEL; 1 HP, 1115 V / 1ø
GI-1	GREASE INTERCEPTOR	-	-	4"	3"	JENSEN PRECAST MODEL JP750G GREASE INTERCEPTOR, 750 GALLONS, EXTENSIONS, NO HUB PIPE ADAPTORS, FLOW CONTROL; SIZED FOR 11 FU'S CONNECTED
IM-1	ICE MAKER	1/2"	-	-	-	IDENTIFIED HEREIN FOR REFERENCE ONLY, AND FOR NOTATION OF ICE MAKER (IM-1)
HS-1	HAND SINK	1/2"	1/2*	2*	2"	RECENCY STANLESS STEEL WALL MOUNTED HAND SMK, SELF RAMMIN 20 CAMSET PRES 304 STANLESS STEEL INDRESSED SOUND COATING WITH 2-HOLE STANDARD, 8° BACKSPLASH, MVP FAUCETS 802–685CD DECK-MOUNTED 4° FRED CENTERS HOT AND COLD WATER METERING SINK FAUCET, 2.2 CPM AERATOR, 1–3/4° VANDAL PROOF MVP METERING DECK
L=1	HANDICAP LAVATORY	1/2"	1/2*	2*	1-1/2*	AMERICAN STANDARD LUCERNE WALL-HUNG LAVATORY, VITREOUS CHINA, FURNISH IN WHITE; CHICAGO FAUCETS 3501—8E2805ABCP DECK MOUNTED 8° FIXED CENTERS HOT & COLD WATER METERING FAUCET, 0.5 GPM VANDAL PROOF NON—AERATING SPRAY; PROVIDE FOR ADA ACCESSIBILITY.
MS-1	MOP SINK	3/4"	3/4"	2*	1-1/2*	JOHN BOOS PRISZOIG-12 PRO-BOW, MOP SINK STANLESS STEEL IS OR FLOOR MOUNTED WITH HEAVY DUTY FLAT CRAIN; TEX BRASS AN BRONZE FAUGET B-0685-BSTP WITH B-0969 1/2" NPT VACUUM BREAKER, QUARTER-TURN ERRINA CARTRIGOS WITH SPRING CHECK & LEVER HANDLES WITH COLOR CODED INDEXES, STOPS AND VACUUM BREAKER, DEATH OF THE STANLESS WITH COLOR CODED INDEXES, STOPS AND VACUUM BREAKER
SB-1	SAMPLE BOX	-	-	4"	-	JENSEN PRECAST SAMPLE BOX MODEL 2432-Z WITH NO-HUB PIPE ADAPTORS, EXTENSIONS, GASKETED COVER
SM-1	SODA MACHINE	3/8"	-	3/4*	-	CORNELIUS CB2323-AHK; NSF, UL-CERTIFIED; 12 AMPS, 120V / 1¢
TP-1	TRAP PRIMER	1/2"	-	-	-	PROVIDE HEEL-PROOF GRATE, TRAP PRIMER CONNECTOR; PPP #2 PRESSURE TYPE TRAP PRIMER
UR-1	URINAL	3/4"	-	2*	1-1/2*	AMERICAN STANDARD WISHBROOK FLOWES 6590.503 0.125 GPF EXPOSED TOP SPUD URINAL AND SENSOR-OPPRATED URRAL FLUSH VALUE, MODEL 6045SM.013.002, VIREGUS CHINA, ULTRA HIGH EFFICIENCY URRALS SYSTEM, WASHOUT FLUSH ACTION, 3/4" INLET SPUD, OUTLET CONNECTION THREAGED 2" INSIDE, STRAINER INCLUDED; OPERATING PRESSURI RANGE OF 20 TO 80 PSI
WC-1	WATER CLOSET	1-1/4"	-	3"	2"	AMERICAN STANDARD MADERA FLOWISE 16-1/2" HEIGHT ELONGATED FLUSHOMETER TOILET, WHITE, CEĆ LUSTED HARDWARE INSTALLATION. FLOOR MOUNT FLUSHOMETER VALVE TOILET, VITREOUS CHINA 1.1 GPF WC FLUSHOMETER, SLOAN ROYAL FLUSH VALVE WITH 1.28 GPF, MODEL 111-1.28
WH-1	WATER HEATER	=	=	3/4"	3/4"	RHEEM E30A-38-0 ELECTRIC WATER HEATER, 30 GALLON TANK TYPE WITH 208Y-39H 36 KW FIRING ELEMENT; FURNISH WITH T&PR, SYSTEM SENTINEL, INTERNAL POWER AND CONTROL CIRCUIT FUSING, MAGNETIC CONTRACTORS, 120V CONTROL CIRCUIT TRANSFORMER, IMMERSION THERMOSTAT WITH MANUAL, RESET HIGH LINES.
SPT-A	SEPTIC TANK	-	-	6"/2"/6"	6"	1500 GALLON SEPTIC TANK WITH MANWAYS, SEPARATE CHAMBERS
DB-A	DISTRIBUTION BOX	-	-	-	-	DISTRIBUTOR BOX WITH KNOCK-OUT FOR HARDWARE FOR EVACUATION
ET-1	EXPANSION TANK	-	1/2*	-	-	AMTROL ST-5 (NO ASME RATING REQUIRED)
						1

SCOPE OF WORK

MAINTAIN BUILDING DRAIN TO (AND INCLUDING) (E) SEPTIC SERVICE ON SITE; PROWDE SEPTIC PLUMBING SERVICE FOR RE-VITALIZED SERVICE UPON PROJECT ACCEPTANCE BY OWNER

MAINTAIN WATER (CW) SERVICE ONTO SITE AND TO ISOLATION VALVE; PROVIDE (N) CW SERVICE FROM (AND INCLUDING) ISOLATION VALVE TO POINTS OF USE

PROVIDE WASTE AND VENT (W AND V) SERVICES FROM POINTS OF CONNECTION TO STUBS INTO SPACE TO EXISTING RESTROOMS, AND KITCHEN AREA

PROVIDE DOMESTIC HOT WATER SERVICE FOR WATER HEATER, AND SERVICE TO POINTS OF USE; PROVIDE WATER HEATER

MAINTAIN CW AND DHW SERVICES TO EXISTING RESTROOMS, AND KITCHEN AREA

PROVIDE GREASE INTERCEPTOR WITH SAMPLING BOX PROVIDE ELECTRIC TANK TYPE WATER HEATER; REFIT CW SERVICE TO WATER HEATER; EXTEND DHW SERVICE FROM WATER HEATER TO RESTROOMS AND KITCHEN AREA

PROVIDE NEW RESTROOM FIXTURES AND NEW KITCHEN FIXTURES

KITCHEN APPLIANCES BY OWNER

LOCAL UTILITY CONTACT INFORMATION

STATIC WATER PRESSURE INFORMATION: WATER PRESSURE 60 MIN 65 MAX PSI PER PHIL KRAUSE (909) 241-4233 5/21/22

PUBLIC WORKS DEPARTMENT (ENGINEERING): N/A

CONTRACTOR SHALL VERIFY AVAILABILITY OF ALL UTILITIES PRIOR TO INITIATION OF CONSTRUCTION

LEGEND

SYMBOL	DESCRIPTION
	WASTE BELOW GRADE FLOOR (E)
	WASTE BELOW GRADE FLOOR (N)
	WASTE ABOVE GRADE FLOOR (N)
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN

GAS PIPING FLOOR SINK

(FLOOR DRAIN PRESSURE REDUCING VALVE/ PRESSURE REGULATING VALVE A

SHUT-OFF VALVE M GAS SHUT-OFF VALVE

CHECK VALVE Ņ TEMPERATURE AND PRESSURE RELIEF VALVE

THERMOMETER

 \neg \vdash FLOOR CLEAN OUT WALL CLEAN OUT Φ CLEAN OUT TO GRADE

POINT OF CONNECTION • POINT OF DISCONNECTION

SHUT-OFF VALVE (RISER VIEW) TRAP PRIMER

WATER HEATER ARRESTOR ABOVE FINISHED FLOOR ABOVE FINISHED GRADE

ACCESS PANEL BFP BACK FLOW PREVENTER COLD WATER DHW DOMESTIC HOT WATER

AFG

DEVELOPED LENGTH FIXTURE UNIT

HOSE BIB LAVATORY

MEDIUM PRESSURE GAS PRESSURE REDUCING VALVE STORAGE TANK THERMOSTATIC MIXING VALVE TRAP PRIMER

VTR VENT THROUGH ROOF WASTE

WATER CLOSET WATER HEATER WATER HAMMER ARRESTOR

SHEET INDEX

P-1.0 LEGEND, SHEET INDEX, SCOPE OF WORK, UTILITY INFORMATION, SCHEDULES

P-1.1 PROJECT NOTES P-2.0 SITE PLAN

P-3.0 FLOOR PLAN - DEMO
P-3.1 RENO FLOOR PLAN - WASTE & VENT

P-3.2 RENO FLOOR PLAN - COLD & HOT WATER

P-4.0 WASTE & VENT ISOMETRICS, DETAILS P-4.1 HOT & COLD WATER ISOMETRICS

P-5.0 WATER CALCULATION







KESSLER PARK SNACK BAR SNACK BAR, RESTROOM REMODEL & NEW SHADE STRUCTURE 18401 JURUPA AVE, BLOOMINGTON, CA 92316









A. ADMINISTRATIVE

SCOPE OF WORK SHALL BE AS IDENTIFIED HEREIN THESE DRAWINGS ON SHEET P-1 FOR COMPLETE AND OPERABLE INSTALLATION OF PLUMBING SERVICES.

b. ALL WORK SHALL COMPLY WITH THE FOLLOWING CODES AS ADOPTED AND AS AMENDED BY THE INSPECTING AUTHORITY:

ii) CALIFORNIA ELECTRICAL CODE (2019)

iii) CALIFORNIA MECHANICAL CODE (2019).

v) CALIFORNIA ADMINISTRATIVE CODE -TITLE 24 (2019).

vi) CALIFORNIA FIRE CODE (2019). vii) AMENDMENTS AS ADOPTED BY LOCAL AUTHORITIES.

C. ALL EQUIPMENT AND HARDWARE SHALL BE PROVIDED FOR LISTED INSTALLATIONS AND APPLICABLE INDUSTRY STANDARDS. A COPY OF THE EVALUATION REPORT AND/OR CONDITIONS OF LISTING SHALL BE MADE ANALIABLE AT THE LODG SITE. EVALUATION REPORT AND/OR AVAILABLE AT THE JOB SITE.

AVAILABLE AT THE JOB STE.

ALL TERMS CITED HERBIN LEND TO THE PLUMBING CONTRACTOR, WHETHER ACTING AS A PRIME CONTRACTOR OR AS A SUB CONTRACTOR, HERBINAFER, THE PLUMBING CONTRACTOR IS REFERRED TO AS THE CONTRACTOR, AND REQUIREMENTS OF THESE NOTES SHALL DIRECT SAID CONTRACTOR TO ACCOMPLISH TASKS AS CITED HERBIN.

g. NOT USED

L NOT YOUR AND OBTAIN ALL NECSSARY CONSTRUCTON PERMITS REQUIRED BY ALL APPLICABLE BUILDING CODES AND REGULATORY FEBRURISHEN STORE CITY AND STATE. FOR CONTRACTORS EXPENSE OF SECURIND PERMITS (AS AGREED TO), SUBMIT TO OWNER FOR REMBURISHEMENT OF COST OF PERMITS AND ASSOCIATED FEES AS CHARGED BY CITY (AND / OR ASSOCIATED JURISDICTIONS).

c. PROVIDE A LIST OF SUBCONTRACTORS TO OWNER'S REPRESENTATIVE PRIOR TO THE START OF WORK.

O. DURING PRICING PERIOD, CONFIRM IN WRITING THE APPROXIMATE ON—SITE DELIVERY DATES FOR ALL CONSTRUCTION MATERIALS AS REQUIRED BY THE CONSTRUCTION DOCUMENTS AND NOTIFY OWNERS REPRESENTATIVE IN WRITING OR ANY POSSIBLE CONSTRUCTION DELAYS AFFECTING OCCUPANCY THAT MAY ARISE DUE TO THE UNAVAILABILITY OF SPECIFIED PRODUCTS.

b. UPON SUBMITTAL OF THE FINAL CONSTRUCTION COSTS, SUBMIT A SPECIFIC CONSTRUCTION SCHEDULE INDICATING THE REQUIRED CONSTRUCTION SCHEDULE INDICATING THE REQUIRED CONSTRUCTION TIME FOR ALL SUBCONTRACTORS AND CONTRACTOR'S WORK.

C. SUBSTITUTIONS MAY BE CONSIDERED DUE TO THE CONTRACTOR'S DELAY IN ORDERING SPECIFIED LONG LEAD ITEMS. ALL SUBSTITUTION MUST BE APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE PRIOR TO ANY ORDER PLACEMENT OR PURCHASE. ANY SUBSTITUTION INSTALLED WITHOUT APPROVIAL WILL BE REJECTED AND REPLACED AT CONTRACTOR'S EXPENSE.

d. ACCOUNT FOR ADDITIONAL OFFSETS, FITTINGS, HARDWARE, ET AL AS NECESSARY TO ACCOMMODATE REQUIREMENTS FOR FIELD CONDITIONS AND COORDINATION BETWEEN DISCIPLINES.

e. INCLUDE ALL NECESSARY LABOR, TRANSPORTATION AND EQUIPMENT NECESSARY TO INSTALL SUCH WORK.

f. ACCOUNT FOR ANY AND ALL OVERTIME COSTS.

G. SUBMIT SHOP DRAWINGS, AND / OR DESCRIPTIVE DATA AND SAMPLES OF ALL EQUIPMENT, FIXTURES, HARDWARE, FINISHES, MILLWORK, ET AL FOR APPROVAL BY THE OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.
b. ADDITIONAL REQUIREMENTS FOR SUBMITTAL INFORMATION IS PROVIDED HEREINATED.

a. RECEIVE, STORE AND SECURE ALL EQUIPMENT, FIXTURES, HARDWARE, FINISHES, MILLWORK, ET AL ON SITE OR AS OTHERWISE ARRANGED FOR BY CONTRACTOR.

a. PROVIDE ONE YEAR GUARANTEE TO CONTRACTOR ON PARTS AND LABOR EXCEPT AS OTHERWISE SPECIFIED HEREIN.

A FOLIPMENT: NOT APPLICABLE

B. FIXTURES: AS SCHEDULED HEREIN AND ON PLUMBING PLANS.

1) PIPE SUPPORTS

a. INSTALL ALL SUPPORT AND BRACING OF PIPING IN ACCORDANCE WITH CMC (AND CPC) 313.0, SMACNA SEISMIC BRACING STANDARDS, AND / OR AS DETAILED AND SPECIFIED HEREIN.

b. ATTACH ALL SUPPORT AND BRACING OF PIPING TO STRUCTURE (ROOF OR FLOOR FRAMING OR SLAB) VIA HARDWARE AS FOLLOWS:

ii) LAG BOLT / SCREW

iii) OR AS OTHERWISE APPROVED IN WRITING.

c. PROVIDE SUPPORT VIA HARDWARE AS FOLLOWS:

ADJUSTABLE 'J' HANGER.

ii) ADJUSTABLE PIPE SADDLE SUPPORT. iii) ADJUSTABLE SWIVEL RING.

iv) CLEVIS HANGER.

v) OFFSET PIPE CLAMP

vi) GAGE STRAP AND HANGER

vii) MANUFACTURED SUPPORT SYSTEMS.

viii) MANUFACTURED C-CHANNEL (FOR TRAPEZE SUPPORTS). ix) AND / OR AS DETAILED AND SPECIFIED HEREIN.

d. INTERIM HARDWARE SHALL BE PROVIDED VIA HARDWARE AS FOLLOWS:

i) BEAM CLAMP.

ii) ANGLE CLIP. iii) MANUFACTURED PLATE AND COLUMN HARDWARE

iv) FIELD-FABRICATED PLATE AND COLUMN HARDWARE.

y) MANUFACTURED SLEEPER HARDWARE.

vi) FIELD-FABRICATED SLEEPER HARDWARE. vii) THREADED RODS.

2) PIPE INSULATION a. CONDENSATE DRAIN

i) CLOSED CELL RATED WITH SELF—SEALING LAP, FOR INDOOR INSTALLATION.

viii) AND / OR AS DETAILED AND SPECIFIED HEREIN.

Q. WASTE & VENT, DRAIN (INSIDE, OUTSIDE BUILDING):

ALTERNATIVE MATERIALS: ABOVE AND BELOW GROUND SCHEDULE 40 ABS, WITH SCHEDULE 40 FITTINGS, & SOLVENT WELDS.

iii) DRAIN PIPING: COPPER TYPE "M". WROT COPPER FITTINGS. 95/5 TIN / ANTIMONY SOLDER.

b. GAS PIPING:

i) HOUSE PRESSURE: SCHEDULE 40 BLACK STEEL WITH SCREWED MALLEABLE IRON FITTINGS, ASNI B 16.3.

ii) FLEX CONNECTION: UL LISTED WITH SHUT-OOFF AT CONNECTION TO RIGID SERVICE.

3. EXECUTION A. GENERAL

1) DOCUMENTATION

a. ALL ABBREVIATIONS USED ON DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, OWNER'S REPRESENTATIVE SHALL BE NOTHFIED FOR CLARIFICATION.

NOTIFIED FOR CLAMPICATION.

D. BRAWINGS ARE DIAGRAMMATIC IN NATURE, AND DO NOT ACCOUNT FOR EVERY ASSECT OF INSTALLATION AS NECESSARY TO ACCOMMODATE FIELD CONDITIONS, DIMENSIONS, AND SCALES FOR ACCURACY AND CONFIRMING THAT WORK IS BUILDABLE AS SHOWN FOR A COMPLETE AND OPERADEL AND OPERATIONAL INSTALLATION POIRCY TO PROCEDURE WITH CONSTRUCTION. CONTRACTOR TO REVIEW AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS FIGRED TO PROCEEDING WITH CONSTRUCTION.

ANY CONDITIONS NOT DOCUMENTED ON THESE DRAWINGS OR OBSERVED TO BE DIFFERENT THAN THOSE SHOWN ON THE DRAWINGS ARE TO BE REPORTED TO THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK.

VERIFY ALL DIMENSIONS SHOWN ON DRAWINGS BY FIELD MEASUREMENTS. BEFORE COMMENCING WORK, CONTRACTOR SHALL CHECK ALL LINES AND LEVELS INDICATED. IMMEDIATELY REPORT DISORPEPANCIES TO THE OWNER'S REPRESENTATIVE FOR CORRECTION AND ADJUSTMENT. PROVIDE PROPER TIT AND ATTACHMENT OF ALL PARTITIONS AND CONSTRUCTION MATERIALS.

f. ALL DIMENSION NOTED "MINUM," "CLEAR", OR "VERIFY" ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY VARIANCES ARE TO BE REPORTED TO THE OWNER'S REPRESENTATIVE IMMEDIATELY FOR RESOLUTION. SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE TERMS NOTED. VERIFY DIMENSIONS AND CRIENTATION ON PLAN. NOTED DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED ONES.

g. ALL PARTITIONS ARE DIMENSIONED FINISH TO FINISH UNLESS NOTED OTHERWISE.

OTHERWISE.

1. ADMSE OWNER'S REPRESENTATIVE OF ALL CONFLICTS THAT EXIST AT THE LOCATIONS OF ALL OF THE MECHANICAL, TELEPHONE, ELECTRICAL, LIGHTING, PLUMBING AND SPRINKLER EQUIPMENT (TO INCLUDE ALL PIPING, DUCTWORK AND CONDUITS). PROVIDE OWNER'S REPRESENTATIVE WITH ALL REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE OF THE ABOVE EQUIPMENT.

KEEP A PROJECT RECORD SET CONSISTING OF DRAWINGS MARKING ALL CHANGES TO THE ORIGINAL DRAWINGS THROUGHOUT THE COURSE OF THE PROJECT. DELIVER "MARKED—UP" REPRODUCIBLE COPY TO OWNER'S REPRESENTATIVE AT THE COMPLETION OF THE PROJECT.

2) STANDARD OF CARE

a. REVIEW AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY CONDITIONS NOT DOCUMENTED ON THESE DRAWINGS OF OBSERVED TO BE DIFFERENT THAN THOSE SHOWS ON THE DRAWINGS ARE TO BE REPORTED TO THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK

IO COMMENCING WORK

IF ANY MATERIALS OR PRODUCTS ARE INSTALLED WITHOUT FIRST PROVIDING
THE REQUIRED SUBMITTALS OR SHOP DRAWINGS FOR APPROVAL, THOSE
MATERIALS OR PRODUCTS ARE SUBJECT TO BEING REMOVED AND
CORRECTLY REINSTALLED AT FULL COST TO THE CONTRACTOR.

CORRECTLY REINSTALLED AT FOLL COST TO THE CONTRACTOR.

INSTALL MORK COMMENSURATE TO FINISHED CONDITIONS WITHIN SPACE AND

/ OR STRUCTURE, AND / OR TO STANDARDS ESTABLISHED IN

COMMENSURATE TERMS.

COMMENSURATE TERMS.

d. NO MORK, DEFECTIVE IN CONSTRUCTION OR QUALITY OF DEFICIENT IN ANY REQUIREDMENTS OF THE DRAWNIOS OR NOTES, WILL BE FOUND ACCEPTABLE IN CONSEQUENCE OF THE OWNER'S OR OWNER'S REPRESENTATIVE'S FAILURE TO DISCOVER OR POINT OUT DEFECT AND DEFICIENCES DURING CONSTRUCTION. DEFECTIVE WORK REVEALED WITHIN THE TIME REQUIRED BY QUARANTEES SHALL BE REPLACED BY WORK CONFORMING WITH THE INTENT OF THE CONTRACT. NO PAYMENT, EITHER PARTIAL OR FINAL, SHALL BE CONSTRUCT OA SAN ACCEPTANCE OF DEFECTIVE WORK OR IMPROPER MATERIALS.

MATERIALS.

6. WORK WHICH CREATES NOXIOUS ODORS SHALL BE PERFORMED AT A TIME OF AGREEABLE WITH, AND COORDINATED THROUGH THE OWNER'S REPRESENTATIVE AND PER JURISDICTIONAL/GOVERNMENTAL REQUIREMENTS.

f. PROVIDE AN EMERGENCY POWER SOURCE FOR EXIT AND EXIT WAY

ELLOWINGTION.

BY KEEP ALL BUILDING AREAS CLEAN AND FREE OF ACCUMULATED DIRT AND DEBRIS. AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE ANY SURPLUS MATERIALS, DEBRIS AND EQUIPMENT.

3) COORDINATION OF CONSTRUCTION EFFORT ORDER ALL MATERIALS IN TIME TO MAINTAIN THE APPROVED CONSTRUCTION SCHEDULE.

CONGINATE SCHEDULE WITH ALL CONTRACTORS, OWNERS VENDORS, AND PARTIES INSTALLING ITEMS NOT IN CONTRACT" AND "ITEMS PROVIDED BY OTHERS".

OTHERS:

C. THE CONTRACTOR SHALL COORDINATE SCHEDULE FOR ALL SUBCONTRACTORS, OWNERS VENDORS, AND PARTIES INSTALLING ITEMS NOT IN CONTRACT AND ITEMS PROVIDED BY OTHERS:

d. THE CONTRACTOR SHALL ORDER MATERIALS IN TIME TO MAINTAIN THE APPROVED CONSTRUCTION SCHEDULE.

APTROVED CONSINUCION SCHEDULE.

COORDINATE INSTALLATION OF ALL WORK FOR THE LAYOUT AND EXACT LOCATION OF ALL CELINGS AND WALLS AND PARTITIONS, OPENINGS FOR DOORS AND WINDOWS, LIGHT FATURES. ELECTRICAL, YELEPHONE OUTLETS EQUIPMENT AND FATURES AND HARDWARE AND SERVICES WITH ALL CONTRACTORS.

COORDINATE INSTALLATION OF ALL WORK BY THE OWNER'S VENDORS (I.E. SITE / CIVIL / UTILITIES, SIGNAGE, FIRE / LIFE SAFETY, DATA CABLING, SECURITY SYSTEM, AUDIO VISUAL, ET AL) WITH OTHER TRADES.

g. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL WORK BY SUBCONTRACTORS FOR THE LAYOUT AND EXACT LOCATION OF ALL CELLINOS AND WALLS AND PARTITIONS, OPENINGS FOR DOORS AND WINDOWS, LIGHST FIXTURES. ELECTRICAL / TELEPHONE OUTLETS AND LIGHT SWITCHES, HVAC EQUIPMENT AND HARDWARE, PLUMBING EQUIPMENT AND INSTRUMES AND HARDWARE AND SERVICES WITH OWNERS REPRESENTATIVE IN THE FIELD. IN. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL WORK BY THE OWNERS VENDORS (IE. SITE / CIVIL / UTILITIES, SIGNAGE, FIRE / LIFE SAFETY, DATA CABLING, SECURITY SYSTEM, AUDIO VISUAL, ET AL.) WITH OTHER TRADES.

i. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ITEMS "NOT IN CONTRACT" AND ITEMS "PROVIDED BY OTHERS" WITH OTHER TRADES.

ALL DIMENSIONS NOTES "CLR" ARE CLEAR AND ARE NOT ADJUSTABLE WITHOUT APPROVAL FROM OWNER'S REPRESENTATIVE.

b. ALIGN PARTITIONS AE ADJACENT TO BASE BUILDING COLUMNS OR WALL WITH THE FACE OF FINISHED COLUMN SURFACE, UNLESS NOTED OTHERWISE

c. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT REVIEW BY OWNERS REPRESENTATIVE UNLESS NOTED OTHERWISE.

REPRESENTATIVE UNLESS NOTED OTHERWISE.

d. ARRANGE AND PLACE FRAMING MEMBERS TO PERMIT INSTALLATION OF PIPE, CONDUITS, AND DUCTWORK WITH MIMIMAL CUTTING. ALL NECESSARY CULTING, BLOCKING, BRADONIC, SUPPORTING AND REPAIRING SHALL BE APPROVED BY OWNERS REPRESENTATIVE.

e. ARRANGE CEILING MOUNTED FIXTURES AND HARDWARE PER THE REFLECTED CEILING FLAN PROVIDED AS PART OF THE ARCHITECTURAL PLANS.

f. THE CONTRACTOR SHALL PROVIDE ACCESS TO AND CLEARANCE AROUND ALL EQUIPMENT AND HARDWARE AS REQUIRED BY CODE AND BY EQUIPMENT MANUEL ACTION g. PROVIDE ACCESS PANELS IN LOCATIONS AS REQUIRED FOR HARDWARE REQUIRING ACCESS.

a. X-RAY SLABS AND WALLS IN LOCATIONS OF PENETRATIONS PRIOR TO SAW CUTTING OR CORING.

MAINTAIN AND / OR MODIFY AND / OR PROVIDE NEW STRUCTURAL CONSTRUCTION. ANCHOR AND BRACE EQUIPMENT, HARDWARE, ASSEMBLIES , ELEMENTS OF CONSTRUCTION. ET ALL AS REQUIRED BY CODE.

c. INSTALLATIONS SHALL BE PLUMB AND CRAFTSMAN LIKE, TO PROVIDE FOR MAXIMUM CLEARANCES AND MINIMUM IMPOSITION. AND COMMENSURATE WITH

d. DO NOT BORE OR NOTCH STRUCTURAL ELEMENTS WITHOUT WRITTEN AUTHORIZATION FROM OWNERS REPRESENTATIVE.

f. MAINTAIN AND / OR MODIFY AND / OR PROVIDE NEW FIRE SUPPRESSION AND FIRE ALARM SYSTEMS AS REQUIRED BY CODE.

1) GENERAI

VERIFY AVAILABILITY OF UTILITIES PRIOR TO INITIATION OF CONSTRUCTION,
 TO INCLUDE ALL LOCATION AND INVERT ELEVATIONS.

COORDINATE REQUIREMENTS FOR SLEEVES AND INSERTS AND CORING WITH GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE AND STRUCTURAL ENGINEER.

d. PROVIDE ESCUTCHEONS AT PENETRATIONS OF ALL WALLS IN EXPOSED LOCATIONS, AND IN CONCEALED LOCATIONS WITHIN CABINETRY, ET AL.

e. TIGHTLY SEAL AT PENETRATIONS OF ALL PIPELINES ENTERING A WALL CEILING, OR FLOOR WITH SEALANT

2) PIPE SUPPORTS

a. COORDINATE HEIGHT OF INSTALLATION OF HARDWARE TO ACCOMMODATE REQUIREMENTS FOR SURROUNDINGS (I.E. WITHIN SPACE AND ON SLAB AND ON ROOF, FOR PASSAGE AND THOROUGHFARE, AND ROOFING WORK, ET AL).

SECURE SUPPORTS WITH RIGID CONNECTIONS TO FLOOR AND ROOF CONSTRUCTION. PROVIDE INTERIM BLOCKING AS NECESSARY.

c. PROVIDE INSULATION AND INSERTS AND SADDLES AT PIPE SUPPORTS. d. PROVIDE INSULATION / INSERTS TO ISOLATE DISSIMILAR METALS.

e. PIPING AND SUPPORTS EXPOSED IN SPACE SHALL BE PAINTED UNLESS OTHERWISE SPECIFIED.

O HERWISE SPECIFIED.

ALL PLUMBING LINES TO BE MINIMUM 6" AFF, 1/2" AWAY FROM WALLS, AND CANNOT CROSS ANY AISLE, TRAFFIC AREA OR DOOR OPENING. FLOOR—MOUNTED BRACKETS NOT ALLOWED. WALL—MOUNTED BRACKETS MUST BE EASY TO CLEAN

a. CONTRACTOR SHALL PROVIDE INSULATION ON CONDENSATE DRAIN SERVICE CONCEALED IN CEILING SPACE

4) PIPING

1) WASTE PIPING SHALL SLOPE AT 2% UNLESS OTHERWISE NOTED.
UNLESS PROHIBITED BY STRUCTURAL CONDITIONS. DRAIN PIPING
(COMDEDSATE) SHALL SLOPE AT 1%. EACH VENT SHALL RISE
VERTICALLY TO A POINT NOT LESS THAN SIX INCHES ABOVE THE
FLOOD RIM OF THE FIXTURE BEFORE OFFSETTING HORIZONTALLY.
ii) PAINT ABS SERVICES EXPOSED TO SUNLIGHT.

iii) INSTALL HORIZONTAL VENTING WITH PITCH UP TO PRECLUDE FLAT VENTING.

VEX. THE ROOF SHALL TERMINATE NOT LESS THAN 6 INCHES ABOVE THE ROOF NOR LESS THAN 1 FOOT FROM ANY VERTICAL SURFACE, AND SHALL TERMINATE NOT LOESS THAN 10 FEET FROM OR 3 FEET ABOVE ANY OPENING OR AIR INTAKE INTO THE BUILDING. v) VENT TERMINATION: ALL PLUMBING FIXTURE VENTS TO TERMINATE A MINIMUM OF 36 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM OR TERMINATED 3"-0" ABOVE ANY OUTSIDE AIR INTAKES.

vi) AIR GAP: PROVIDE MINIMUM AIR-GAP FOR ALL PIPING DISCHARGING INTO FLOOR-SINKS, STAND PIPES AND DRAINS AS REQUIRED BY LOCAL CODES.

VII) PROVIDE FULL PORT BALL VALVES, THREADED ENDS, AND VACUUM BREAKERS ON ALL DRAIN CONNECTIONS AT EQUIPMENT AND HARDWARE.

b. GAS PROVIDE PIPING EXPOSED TO AMBIENT IN GALVANIZED STEEL, OR BLACK STEEL COATED WITH EPOXY BASED PAINT.

ii) CONTRACTOR SHALL PROVIDE GAS SERVICE SIZED PER PLANS, AND BUSHED DOWN TO EQUIPMENT CONNECTION SIZE FOR INSTALLATION OF FLEX FROM RIGIO PIPE TO EQUIPMENT. IDENTIFY EQUIPMENT AND HARDWARE VIA ENGRAVED ACRYLIC WHITE ON BLACK ADHESINE LABELS, MANUFACTURED PIPE LABELS, CIRCUIT TAGS AND COMPLETED PANEL SOHEDULE, LINE CARDS, ET AL.

2) REPAIR OR REPLACE ANY DAMAGED CONSTRUCTION ADJACENT TO WORK PROVIDED UNDER THIS SCOPE OF WORK. 3) AT THE COMPLETION OF THE INSTALLATION TEST EQUIPMENT AND HARDWARE FOR AND DEMONSTRATE TO OWNER'S REPRESENTATIVE'S PROPER OPERATION, AND MAKE ADJUSTMENTS AS REQUIRED. DELIVER VALIDATED CERTIFICATES, WARRANTIES AND GUARANTES FOR NEW EQUIPMENT TO OWNER'S REPRESENTATIVE.

4) MAINTAIN ONE SET OF REPRODUCIBLE DRAWNGS OF "AS-BULL" CONDITIONS.
SIBBIT AT THE COMPLETION OF THE PROJECT SAME TO THE OWNERS
REPRESENTATIVE.

1) TERMS GITTED HEREIN ARE REFLECTIVE OF OR IN ADDITION TO REQUIREMENTS FOR
COMPLIANCE OF INSTALLATION TO APPLICABLE CODES. CONTRACTOR SHALL SUBMIT
TO OWNERS REPRESENTATIVE FOR APPROVAL OF DEVALOR FROM SAID TERMS.

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