SWSD SHIPWRECK CAFE
SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

VOLUME 1 OF 1

PGAV Project Number: 64115-00

Issue Date: 12/09/2022

Revision 01	03/15/2023
Revision 02	05/10/2023
Revision 03	06/09/2023

Name of Building / Use	Existing, New, or Relocated	Existing Area (SF)	New Area (SF)	Zone Total Area (SF)	Allowable Area (SF)	Sprinklered	Occupancy Group	Construction Type	Number of Stories
Restaurant / Shiwreck Cafe	Existing	Main Bldg - 11,702 Ext. Covered Area - 3,367		18,000	18,000	Y	A-2	Type VB	2

Sea World LLC
d/b/a SeaWorld San Diego
Darlene Walter
500 Sea World Drive
San Diego, CA 92109
619-226-3626

GEOTECHNICAL ENGINEER:
CHRISTIAN WHEELER
3980 HOME AVENUE
SAN DIEGO, CA 92105
(619) 550-1700

STRUCTURAL ENGINEER:
ALPER AUDI, INC.
1804 BORMAN CIRCLE
ST. LOUIS, MO 63146
(314) 432-8600

MEP-FP ENGINEER/
LIGHTING DESIGNER:
EXP, INC
2601 WESTHALL LANE
MAITLAND, FL 32751
(407) 660-0088

FOOD SERVICE CONSULTANT:
DENNIS G. GLORE, INC.
120 S VIRGINIA AVE.
EUREKA, MO 63025
(636) 938-7887

Architects / Destination Consultants:
PECKHAM GUYTON ALBERS & VIETS, INC.
200 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318 WWW.PGAV.COM

PERMIT SCOPE OF WORK:
- INTERIOR RENOVATION OF EXISTING FOOD FACILITY
- FOOD FACILITY AREAS TO INCLUDE RENOVATION OF KITCHEN & GUEST SCRAMBLE AREA
- INTERIOR FINISH REFRESH
- FACILITY NAME TO REMAIN - SHIPWRECK CAFE

EXISTING USE = THEMEPARK
PROPOSED USE = THEMEPARK
ASSESSOR'S PARCEL NUMBER: 760-037-01-01

THIS PROJECT WILL COMPLY WITH:
2019 CALIFORNIA BUILDING CODE
2019 CALIFORNIA MECHANICAL CODE
2019 CALIFORNIA PLUMBING CODE
2019 CALIFORNIA ELECTRICAL CODE
2019 CALIFORNIA FIRE CODE
2019 CALIFORNIA EXISTING BUILDING CODE
2019 GREEN STANDARDS CODE
AS ADOPTED AND AMENDED BY THE STATE OF CALIFORNIA AND THE CITY OF SAN DIEGO

GENERAL NOTES

1. ELEVATIONS SHOWN ARE BASED ON A SURVEY OF EXISTING CONDITIONS. REFER TO SITE SURVEY DRAWING.
2. REFER TO THE PROJECT MANUAL FOR SOILS INVESTIGATION REPORT(S).
3. LOCATIONS OF UNDERGROUND UTILITIES ARE SHOWN FROM AVAILABLE RECORDS. ACTUAL LOCATIONS OF UTILITIES SHALL BE VERIFIED IN THE COURSE OF EXCAVATION. NOTIFY OWNER'S REPRESENTATIVE/OWNER'S PROJECT MANAGER AND ARCHITECT OF DISCREPANCIES BETWEEN UTILITY LOCATIONS SHOWN AND ACTUAL LOCATIONS.
4. IN ADDITION TO CIVIL SITE PLANS AND SCHEDULES, THE CIVIL ENGINEER WILL PROVIDE THE CONTRACTOR WITH A DIGITAL COPY OF THE SITE DATA FOR THE PURPOSE OF FIELD VERIFICATION, LAYOUT AND LOCATION OF SITE IMPROVEMENTS, STRUCTURES, AND BUILDINGS.
   a. BEFORE PROCEEDING TO LAY OUT WORK, CONTRACTOR TO VERIFY INFORMATION SHOWN ON DRAWINGS IN RELATION TO PROPERTY SURVEY AND EXISTING BENCHMARKS. IF DISCREPANCIES ARE DISCOVERED, PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE/OWNER'S PROJECT MANAGER.
   b. CONTRACTOR TO ENGAGE A LAND SURVEYOR OR PROFESSIONAL ENGINEER TO LAY OUT THE WORK USING ACCEPTED SURVEYING PRACTICES. ESTABLISH BENCHMARKS AND CONTROL POINTS TO SET LINES AND LEVELS AS NEEDED TO LOCATE EACH ELEMENT OF THE PROJECT. ESTABLISH DIMENSIONS WITHIN TOLERANCES INDICATED.
   c. DO NOT SCALE DRAWINGS TO OBTAIN REQUIRED DIMENSIONS.
   d. INFORM INSTALLERS OF LINES AND LEVELS TO WHICH THEY MUST COMPLY. CHECK THE LOCATION, LEVEL, AND PLUMB OF EVERY MAJOR ELEMENT AS THE WORK PROGRESSES. NOTIFY THE OWNER'S REPRESENTATIVE/OWNER'S PROJECT MANAGER WHEN DEVIATIONS FROM REQUIRED LINES AND LEVELS EXCEED ALLOWABLE TOLERANCES.
   e. LOCATE AND LAYOUT SITE IMPROVEMENTS INCLUDING PAVEMENTS, GRADING, FILL AND TOPSOIL PLACEMENT, UTILITY SLOPES, AND INVERT ELEVATIONS.
   f. LOCATE AND LAYOUT CONTROL LINES AND LEVELS FOR STRUCTURES, FOUNDATIONS, AND FLOOR LEVELS REQUIRED FOR THE SCOPE OF WORK INCLUDING MECHANICAL AND ELECTRICAL WORK. LEVEL FOUNDATIONS AND PIERS FROM TWO OR MORE LOCATIONS. TRANSFER SURVEY MARKINGS AND ELEVATIONS FOR USE WITH CONTROL LINES AND LEVELS.
   g. MAINTAIN A LOG OF LAYOUT CONTROL WORK. RECORD DEVIATIONS FROM REQUIRED LINES AND LEVELS.
5. CONTRACTOR SHALL INSPECT SITE AND ADJUST EXISTING SITE STRUCTURES, MANHOLES, CATCH BASINS, ETC., AS REQUIRED TO CONFORM TO FINISH GRADE ELEVATIONS. SITE STRUCTURES, MANHOLES, DRAINS, ETC., IN WALKING SURFACES SHALL BE COMPLIANT WITH ADA STANDARDS AND LOCAL ACCESSIBILITY CODES.
6. CONTRACTOR(S) SHALL VERIFY QUANTITIES AND REVIEW EXISTING CONDITIONS PRIOR TO SUBMITTING A BID. NOTIFY THE OWNER'S REPRESENTATIVE/OWNER'S PROJECT MANAGER AND ARCHITECT OF DISCREPANCIES BETWEEN CONDITIONS SHOWN AND ACTUAL FIELD CONDITIONS.
7. INFORMATION, INCLUDING DIMENSIONS, HAS BEEN PROVIDED FROM ORIGINAL CONSTRUCTION DOCUMENTS AND EXISTING FIELD CONDITIONS MAY VARY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE OWNER'S REPRESENTATIVE/OWNER'S PROJECT MANAGER AND ARCHITECT OF DISCREPANCIES BETWEEN CONDITIONS SHOWN AND ACTUAL FIELD CONDITIONS.
8. CONTRACTOR TO COORDINATE WITH THE OWNER AND PUBLIC UTILITIES FOR LOCATION AND SCHEDULING OF TERMINATION, CUTTING, AND PATCHING OF UTILITIES.
   a. REFER TO DIVISION 01 REQUIREMENT FOR NOTICES TO UTILITY OWNER, PROPERTY OWNER, OWNER'S REPRESENTATIVE/OWNER'S PROJECT MANAGER, AND ARCHITECT BEFORE INTERRUPTING UTILITY SERVICES TO ANY LOCATION.
   b. NOTIFY AND COORDINATE WITH THE OWNER THE RELOCATION OF AND TEMPORARY PROVISION FOR UTILITY SERVICES AFFECTING OWNER'S OPERATIONS OUTSIDE OF THE PROJECT AREA.
9. FIRE DEPARTMENT ACCESS PATH (FIRE LANE) AS INDICATED ON DRAWINGS SHALL BE MAINTAINED CLEAR OF CONSTRUCTION ACTIVITY AT ALL TIMES. THIS CLEARANCE SHALL BE 14'-0" WIDE X 13'-6" HIGH. INTERFERENCE WITH THE FIRE LANE IS NOT PERMITTED.
10. CONSTRUCTION ACCESS SHALL BE THROUGH A CONSTRUCTION GATE AND BE ALONG A CONSTRUCTION ACCESS PATH AS DESIGNATED BY THE OWNER. CONSTRUCTION SCHEDULE INCLUDING SCHEDULE OF CONSTRUCTION ACCESS SHALL BE REVIEWED WITH THE OWNER.
11. FACILITIES AND SITE IMPROVEMENTS ALONG THE CONSTRUCTION ACCESS ROUTE AND AT CONSTRUCTION LAY-DOWN AREAS WHICH ARE DAMAGED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL CONDITION OR AS IDENTIFIED IN THE SCOPE OF WORK. RESTORATION WORK INCLUDES BUT IS NOT LIMITED TO A) REPAIR, RESEAL, AND RE-STRIPE ASPHALT SURFACES, AND B) REPAIR OR REPLACEMENT OF GRADING, LANDSCAPE AND FENCES.
12. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, ETC., FOR FLOOR DRAINS AND SLOPE OF FLOORS TO DRAINS. SLOPE FLOORS AS INDICATED ON DRAWINGS. IF NOT SHOWN ON DRAWINGS, SLOPE THE ENTIRE FLOOR SURFACE WITHIN AN AREA OR ROOM TO THE DRAIN(S). PONDING WATER DUE TO IMPROPER SLOPES AND/OR DRAIN INLETS HIGHER THAN THE SURROUNDING FLOOR SHALL BE CORRECTED AT CONTRACTOR'S EXPENSE.
   a. FIRST FLOOR ELEVATION IS TOP OF SLAB. FLOOR TO SLOPE TO DRAIN FROM THAT ELEVATION UNLESS NOTED OTHERWISE.
   b. MINIMUM FLOOR SLOPE TO DRAIN = 1/16" PER FOOT.
   c. MAXIMUM FLOOR SLOPE TO DRAIN = 1/4 " PER FOOT.
   d. TOP OF FLOOR DRAIN SHALL NOT BE LOWER THAN 1 – 1.2 " BELOW THE FINISH FLOOR ELEVATION.
13. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, LIFE SUPPORT SYSTEMS, ETC., FOR REQUIREMENTS FOR HOUSEKEEPING PADS. EQUIPMENT, UNLESS NOTED OTHERWISE, IS TO BE PLACED ON HOUSEKEEPING PADS.
14. CONTRACTOR(S) TO COORDINATE WITH OTHER CONTRACTOR(S) AS REQUIRED TO COMPLETE THE WORK, INCLUDING COORDINATION WITH CONTRACTOR(S) UNDER SEPARATE CONTRACT WITH THE OWNER.
15. MIN CLASS A ROOFING TO BE PROVIDED FOR ALL BUILDINGS.

ACCESSIBLE SIGNAGE & IDENTIFICATION DEVICE REQUIREMENTS

1. WHEN NEW OR ADDITIONAL SIGN AND/OR IDENTIFICATION DEVICES ARE PROVIDED, OR WHEN EXISTING SIGNS AND/OR IDENTIFICATION DEVICES ARE REPLACED OR ALTERED, THE NEW OR ALTERED SIGNS AND/OR IDENTIFICATION DEVICES SHALL COMPLY WITH CALIFORNIA BUILDING CODE SECTION 1117B.5 (SEC. 1117B.5.1)
2. CHARACTERS, SYMBOLS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON LIGHT BACKGROUND. (SECTION 1117B.5.2)
3. CHARACTERS ON SIGNS SHALL HAVE WIDTH TO HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH TO HEIGHT RATIO OF BETWEEN 1:5 AND 1:10. (SEC. 1117B.5.3)
4. CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER CASE X. LOWER CASE CHARACTERS ARE PERMITTED. FOR SIGNS SUSPENDED OR PROJECTED ABOVE THE FINISH FLOOR IN COMPLIANCE WITH SECTION 1133B.8.6, THE MINIMUM CHARACTER HEIGHT SHALL BE 3 INCHES. (SEC. 1117B.5.4)
5. CHARACTERS ON SIGNS SHALL BE RAISED 1/32-INCH MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAIL COMPLYING WITH CALIFORNIA BUILDING CODE SECTION 1117B.5.6 (SEC.1117B.5.5-1)
6. PICTORIAL SYMBOL SIGNS SHALL BE ACCOMPANIED BY THE VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE OUTSIDE DIMENSION OF THE PICTOGRAM FIELD SHALL BE A MINIMUM OF 6 INCHES IN HEIGHT. (SEC.1117B.5.5-3)
7. CHARACTERS AND BRAILLE SHALL BE IN A HORIZONTAL FORMAT. BRAILLE SHALL BE PLACED A MINIMUM OF 3/8 INCH AND A MAXIMUM OF ½-INCH DIRECTLY BELOW THE TACTILE CHARACTERS. FLUSH LEFT OR CENTERED. WHEN TACTILE TEXT IS MULTI-LINED, ALL BRAILLE SHALL BE PLACED TOGETHER BELOW ALL LINES OF TACTILE TEXT. (SEC.1117B.5.5-4).
8. CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAIL IS REQUIRED. DOTS SHALL BE 1/10 INCH ON CENTER IN EACH CELL WITH 2/10 INCH SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 1/40 INCH ABOVE THE BACKGROUND, AND SHALL BE DOMED OR ROUNDED. (SEC. 1117B.5.6)
9. THE MOUNTING HEIGHT OF SIGNS SHALL BE 60 INCHES ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3 INCHES OF SIGN AGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF THE DOOR. (SEC. 1117B.5.7)
10. WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH OUTSIDE OF THE DOOR, WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. (SEC. 1117B.5.7)

FIRE DEPARTMENT NOTES

1. BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION OR DEMOLITION SHALL CONFORM TO CFC CHAPTER 33. WELDING, CUTTING AND OTHER HOT WORK SHALL BE IN CONFORMANCE WITH CFC CHAPTER 35.
2. COMPLETE PLANS AND SPECIFICATIONS FOR THE FIRE ALARM, FIRE SPRINKLER, OTHER SPECIAL TYPES OF AUTOMATIC FIRE PROTECTION SYSTEMS AND APPURTENANCES THERETO, AND WET AND DRY STANDPIPES, SHALL BE SUBMITTED TO FIRE FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION [CFC 901; 903.1.1; 905.2; 907.1.1]
3. COMPLETE PLANS AND SPECIFICATIONS FOR SPECIAL EGRESS CONTROL DEVICES SHALL BE SUBMITTED TO FIRE AND LIFE SAFETY FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
4. NO LATCH OR LOCKING DEVICE EXCEPT PANIC HARDWARE PERMITTED. (CBC SEC 1008.1.10)
5. ALL EXIT DOORS SHALL BE OPENED FROM INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE. ALL DOOR SWINGS SERVING AN OCCUPANT LOAD OF 50 OR GREATER SHALL SWING IN THE DIRECTION OF EXIT TRAVEL [CFC 1008.1.2].
6. PROVIDE ILLUMINATED EXIT SIGNS READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL [CBC 1011.1]. SHOW LOCATIONS ON PLANS.
7. ANY ROOM HAVING AN OCCUPANT LOAD OF 50 OR MORE PERSONS WHERE FIXED SEATS ARE NOT INSTALLED, AND WHICH IS USED FOR ASSEMBLY, CLASSROOM, DINING, DRINKING, OR SIMILAR PURPOSES SHALL HAVE THE MAXIMUM CAPACITY OF THE ROOM POSTED ON AN APPROVED SIGN IN A CONSPICUOUS PLACE NEAR THE MAIN EXIT FROM THE ROOM [CFC 1004.3].
8. AN APPROVED AUDIBLE SPRINKLER FLOW ALARM SHALL BE PROVIDED ON EXTERIOR OF THE BUILDING IN AN APPROVED LOCATION. AN APPROVED AUDIBLE SPRINKLER FLOW ALARM TO ALERT THE OCCUPANTS SHALL BE PROVIDED IN THE INTERIOR OF THE BUILDING IN A NORMALLY OCCUPIED LOCATION. (CBC 904.3.4)
9. AN APPROVED AUDIBLE SPRINKLER FLOW ALARM (BELL) SHALL BE PROVIDED ON THE EXTERIOR OF THE BUILDING IN AN APPROVED LOCATION [CFC 903.4.2].
10. FIRE ALARM SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH CFC 907.6.
11. THE INSTALLATION OF AUTOMATIC FIRE SPRINKLER SYSTEMS SHALL COMPLY WITH CBC CHAPTER 9.
12. AT LEAST ONE FIRE EXTINGUISHER WITH A MINIMUM RATING OF 2A10BC SHALL BE PROVIDED WITHIN 75' MAXIMUM TRAVEL DISTANCE FOR EACH 6,000 S.F. OR PORTION THEREOF ON EACH FLOOR (LIGHT HAZARD); 3,000 S.F. (MODERATE); OR 2,000 S.F. (HIGH HAZARD) [CFC 906.3].
13. A WET CHEMICAL TYPE PORTABLE FIRE EXTINGUISHER HAVING A MINIMUM RATING OF 40K SHALL BE INSTALLED WITHIN 30 FEET OF COMMERCIAL FOOD HEAT-PROCESSING EQUIPMENT. (CFC 1006.2.7).
14. FIRE EXTINGUISHING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH CFC 903 AND 904, AND COMPLY WITH STANDARDS OF 903.3.
15. VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEMS AND WATER-FLOW SWITCHES ON ALL SPRINKLER SYSTEMS SHALL BE ELECTRICALLY MONITORED WHERE THE NUMBER OF SPRINKLERS IS 20 OR MORE [CFC 903].
16. FIRE HYDRANTS SHALL COMPLY WITH THE FIRE AND LIFE SAFETY POLICY F-96-01 FOR ON-SITE FIRE HYDRANTS.
17. FIRE APPARATUS ACCESS ROADS AND WATER SUPPLIES FOR FIRE PROTECTION SHALL BE INSTALLED AND MADE SERVICEABLE PRIOR TO AND DURING TIME OF CONSTRUCTION [CFC 1410, 1412].
18. FIRE HYDRANT LOCATIONS SHALL BE IDENTIFIED WITH THE INSTALLATION OF REFLECTIVE MARKERS
19. NOT USED
20. DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME-RETARDANT CONDITION [CFC CHAPTER 8] (T-19, SEC 3.08, 3.21 2501.5 CFC 1103.3.3.1).
21. LOCATIONS AND CLASSIFICATIONS OF EXTINGUISHERS SHALL BE IN ACCORDANCE WITH CFC 906 AND CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 19.
22. DURING CONSTRUCTION, AT LEAST ONE EXTINGUISHER SHALL BE PROVIDED ON EACH FLOOR LEVEL AT EACH STAIRWAY, IN ALL STORAGE AND CONSTRUCTION SHEDS, IN LOCATIONS WHERE FLAMMABLE OR COMBUSTIBLE LIQUIDS ARE STORED OR USED, AND WHERE OTHER SPECIAL HAZARDS ARE PRESENT PER CFC SECTION 3315.1.
23. WALL, FLOOR AND CEILING FINISHES AND MATERIALS SHALL NOT EXCEED THE INTERIOR FINISH CLASSIFICATIONS IN CBC TABLE 803.3 AND SHALL MEET THE FLAME PROPAGATION PERFORMANCE CRITERIA OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 19, DIVISION 1 DECORATIVE MATERIALS SHALL BE PROPERLY TREATED BY A PRODUCT OR PROCESS APPROVED BY THE STATE FIRE MARSHAL WITH APPROPRIATE DOCUMENTATION PROVIDED TO THE CITY OF SAN DIEGO.
24. DUMPSTERS AND TRASH CONTAINERS EXCEEDING 1.5 CUBIC YARDS SHALL NOT BE STORED IN BUILDINGS OR PLACED WITHIN 5 FEET OF COMBUSTIBLE WALLS, OPENINGS OR COMBUSTIBLE ROOF EAVE LINES UNLESS PROTECTED BY AN APPROVED SPRINKLER SYSTEM OR LOCATED IN A TYPE I OR IIA STRUCTURE SEPARATED BY 10 FEET FROM OTHER STRUCTURES. CONTAINERS LARGER THAN 1 CUBIC YARD SHALL BE ON NON- OR LIMITED-COMBUSTIBLE MATERIALS OR SIMILARLY PROTECTED OR SEPARATED. (CFC 304.3).
25. EXITS, EXIT SIGNS, FIRE ALARM PANELS, HOSE CABINETS, FIRE EXTINGUISHER LOCATIONS, AND STANDPIPE CONNECTIONS SHALL NOT BE CONCEALED BY CURTAINS, MIRRORS OR OTHER DECORATIVE MATERIAL.
26. OPEN FLAMES, FIRE AND BURNING ON ALL PREMISES IS PROHIBITED EXCEPT AS SPECIFICALLY PERMITTED BY THE CITY OF SAN DIEGO AND CFC 308.
27. THE EGRESS PATH SHALL REMAIN FREE AND CLEAR OF ALL OBSTRUCTIONS AT ALL TIMES. NO STORAGE IS PERMITTED IN ANY EGRESS PATHS.
28. COMPLETE PLANS AND SPECIFICATIONS FOR FIRE ALARM SYSTEMS SHALL BE SUBMITTED TO THE CITY OF SAN DIEGO DEVELOPMENT SERVICES FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. (CFC 907.1)
29. HIGH PILED COMBUSTIBLE STORAGE SHALL BE IN ACCORDANCE WITH CFC CHAPTER 23

GENERAL NOTES - ADDITIONAL

SEA PROJECTS ADDITIONAL GENERAL NOTES

1. ELEVATIONS ARE BASED ON SEA DATUM STANDARDS. SWSD. ELEVATIONS SHOWN ARE BASED ON USGS DATUM. REFER TO EXISTING CONDITIONS DRAWING FOR MEAN SEA LEVEL REFERENCE ELEVATION.
2. REFER TO BUILDING DRAWING FOR ADDITIONAL INFORMATION.
3. REFER TO FINISH SCHEDULES, MATERIAL LEGENDS, AND SPECIFICATIONS FOR FLOOR, WALL, WALL BASE, AND CEILING FINISH MATERIALS.
4. REFER TO CHARACTER REFERENCE GUIDE / EXHIBITS & GRAPHICS GUIDE (CRG/EGG) FOR ADDITIONAL INFORMATION.
5. CONSTRUCTION ACCESS ROUTE AND SCHEDULE OF CONSTRUCTION TRAFFIC ARE TO BE REVIEWED AND APPROVED BY THE SEA DESIGN AND ENGINEERING OFFICE
   a. CONTRACTOR TO COOPERATE WITH OWNER TO MAINTAIN CONTINUITY OF OWNER'S VENDOR DELIVERIES, PARK OPERATIONS AND SITE ACCESS, AND TO ENSURE THE SAFETY OF GUESTS, PARK STAFF, AND ANIMALS.
6. CONTRACTOR TO PROVIDE TEMPORARY LIGHTING FOR GUESTS. LIGHTING TO BE ATTACHED TO THE CONSTUCTION FENCE. PROVIDE TEMPORARY LIGHTING FIXTURES AT 50'-0" INTERVALS.
7. CONCRETE FLATWORK DESIGNATED AS A COLOR SHALL BE INTEGRAL COLOR MATERIAL.
   a. CURED SAMPLES TO COLOR CONCRETE PAVING SHALL BE INTEGRAL COLOR TO MATCH ADJACENT PAVEMENT.
   b. CAST-IN-PLACE CONCRETE DESIGNATED TO BE INTEGRAL COLOR SHALL MATCH ADJACENT PAVEMENT, UNLESS NOTED OTHERWISE.
   c. CONTRACTOR TO SUBMIT MOCK-UP OF INTEGRAL COLOR CONCRETE SYSTEMS FOR OWNER REVIEW PRIOR TO INSTALLATION.
8. PAVEMENT.
   a. REFER TO CIVIL DRAWINGS FOR PAVEMENT SUB-BASE.
   b. REFER TO CIVIL DRAWINGS FOR PAVEMENT THICKNESS LOCATIONS. PAVEMENT TO BE 6" THICKNESS UNLESS NOTED OTHERWISE.
   c. AT LOCATIONS FOR GOLF CART TRAFFIC, PROVIDE 4" THICKNESS NON-COLOR CONCRETE WITH 6X6 W1.4 X 1.4 WELDED WIRE FABRIC SUPPORTED ON BARS 1 ½" FROM BOTTOM OF CONCRETE SLAB.
9. IT IS THE OWNER'S INTENT FOR GUARDRAILS TO BE DIMENSIONED AT 3'-7" ABOVE FINISH FLOOR (AFF) AS A MINIMUM DIMENSION. AT NO POINT ALONG ITS ELEVATION SHALL THE TOP OF GUARDRAIL BE BELOW 3'-7".
10. PROVIDE CONCEALED FASTENERS AT ALL ATTACHMENTS, UNLESS NOTED OTHERWISE. FASTENERS SHALL BE NONCORROSIVE MATERIAL AND INSULATED FROM DISSIMILAR MATERIALS TO PREVENT GALVANIC ACTION ALONG CONDUCTIVE PATHS.
   a. IF FASTENERS ARE NOT CONCEALED, NOTIFY ARCHITECT/DESIGNER BEFORE FABRICATION AND INSTALLATION.
   b. EXPOSED SCREW ENDS, IF PROVIDED, ARE TO BE CAPPED WITH STAINLESS STEEL ACORN NUTS.
11. PAINT ALL SURFACES EXPOSED TO VIEW. REFER TO PAINTING & COATING SPECIFICATION.
12. OWNER AND/OR CONTRACTOR SHALL SECURE BUILDING PERMITS REQUIRED BY AUTHORITY HAVING JURISDICTION, INCLUDING FIRE DEPARTMENT, PRIOR TO BEGINNING CONSTRUCTION.
13. BUILDING OWNER SHALL SECURE BUILDING OCCUPANCY PERMITS REQUIRED BY THE FIRE DEPARTMENT FROM THE FIRE PRESERVATION BUREAU PRIOR TO OCCUPYING THE BUILDING(S).
14. FIRE PROTECTION, INCLUDING FIRE APPARATUS ACCESS ROADS AND WATER SUPPLIES FOR FIRE PROTECTION, SHALL BE INSTALLED AND MADE SERVICEABLE PRIOR TO AND DURING THE TIME OF CONSTRUCTION.
15. FIRE EQUIPMENT, INCLUDING FIRE SUPPRESSION EQUIPMENT, TO BE INSTALLED AS A PART OF THIS SCOPE OF WORK SHALL BE REVIEWED BY THE FIRE MARSHAL PRIOR TO INSTALLATION. SUBMIT FIRE SUPPRESSION SHOP DRAWINGS AND PRODUCT DATA TO THE FIRE DEPARTMENT FOR APPROVAL.
16. FIRE HYDRANTS, IF REQUIRED AS A PART OF THIS SCOPE OF WORK, SHALL COMPLY WITH FIRE DEPARTMENT REQUIREMENTS FOR ON-SITE FIRE HYDRANTS.
17. CONTRACTOR TO PROVIDE A MINIMUM OF ONE 2A:10BC CLASSIFICATION FIRE EXTINGUISHER WITHIN 75 FEET TRAVEL DISTANCE FOR EACH 6,000 SQUARE FEET OR PORTION THEREOF. REVIEW FIRE EXTINGUISHERS LOCATIONS WITH THE FIRE MARSHAL.
18. THE MINIMUM WIDTH OF THE MEANS OF EGRESS SHALL REMAIN UNDIMINISHED ALONG THE PATH OF EXIT TRAVEL. THE MINIMUM WIDTH SHALL BE DETERMINED AS THE MINIMUM GOVERNING WIDTH DETERMINED FROM THE CUMULATIVE OCCUPANT LOAD AT THAT POINT.
   a. PROVIDE AND MAINTAIN AN UNOBSTRUCTED MINIMUM HEIGHT CLEARANCE OF 7'-0" ALONG THE MEANS OF EGRESS.
19. DOORS IN THE MEANS OF EGRESS SHALL BE OPERABLE FROM FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
   a. NO LATCH OR LOCKING DEVICE EXCEPT PANIC HARDWARE IS PERMITTED AT EMERGENCY EXITS.
20. GRADE LEVEL AREAS DESIGNATED AS EXIT DISCHARGE COMPONENTS FOR A BUILDING SHALL BE PERMANENTLY MAINTAINED. AREAS SHALL NOT BE DEVELOPED OR OTHERWISE ALTERED IN THEIR CAPACITY TO PROVIDE FOR CONTINUOUS, UNOBSTRUCTED, AND UNDIMINISHED MEANS OF EGRESS FOR THE BUILDING OCCUPANT.
21. ELECTRICAL ITEMS ARE TO BE UL RATED. ASSEMBLIES CONTAINING ELECTRICAL COMPONENTS ARE TO BE UL RATED FOR THE ENTIRE ASSEMBLY.

BUILDING DEPARTMENT NOTES

1. THE CONSTRUCTION, REMODEL, OR DEMOLITION OF A BUILDING SHALL COMPLY WITH CFC ARTICLE 87.
2. BUILDING OCCUPANT SHALL SECURE BUILDING PERMITS REQUIRED BY FIRE DEPARTMENT FROM THE FIRE PREVENTION BUREAU PRIOR TO OCCUPYING THIS BUILDING.
3. PLANS FOR THE DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED IN A TIMELY MANNER THAT ALLOWS A MINIMUM 30 WORKING DAYS FOR INITIAL PLAN REVIEW. ALL COMMENTS RELATED TO THE DEFERRED SUBMITTAL MUST BE ADDRESSED TO THE SATISFACTION OF THE PLAN CHECK DIVISION PRIOR TO APPROVAL OF THE SUBMITTAL ITEMS
4. GRADE LEVEL AREAS DESIGNATED AS EXIT DISCHARGE COMPONENTS FOR A BUILDING SHALL BE PERMANENTLY MAINTAINED. SUCH AREAS SHALL NOT BE DEVELOPED OR OTHERWISE ALTERED IN THEIR CAPACITY TO PROVIDE FOR CONTINUOUS, UNOBSTRUCTED, AND UNDIMINISHED MEANS OF EGRESS FOR THE BUILDING OCCUPANT. IF SUCH AREAS ARE SOLD INDEPENDENT OF THE BUILDING THEY SERVE, AN EXIT DISCHARGE COMPLYING WITH THE REQUIREMENTS OF CBC SEC 1027 SHALL BE PROVIDED FOR THE BUILDING.
5. DOORS IN THE MEANS OF EGRESS SYSTEM TO BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT (CBC SEC 1008.1.9)
6. THE MINIMUM WIDTH OF THE MEANS OF EGRESS SYSTEM SHALL REMAIN UNDIMINISHED ALONG THE PATH OF EXIT TRAVEL. THE MINIMUM WIDTH SHALL BE DETERMINED AS THE MINIMUM GOVERNING WIDTH DETERMINED FROM THE CUMULATIVE OCCUPANT LOAD AT THAT POINT (CBC SEC 1005.1)
7. PROVIDE AND MAINTAIN AN UNOBSTRUCTED MINIMUM HEIGHT CLEARANCE OF 7'-6" ALONG THE MEANS OF EGRESS SYSTEM (CBC SEC 1003.2)
8. EXIT SIGNS MUST BE INTERNALLY ILLUMINATED. (CFC SEC 1212.4 AND CBC SEC 1013.3) NO NEW EXIT SIGNS IN SCOPE OF WORK.
9. TWO SEPARATE POWER SUPPLIES ARE PROVIDED FOR EXIT SIGNS CONFORMING TO CODE SECTIONS AS FOLLOWS: CBC SEC 1011.4.
10. ELECTRICAL PANELS SHALL NOT BE LOCATED WITHIN FIRE-RATED CORRIDORS. PROTECT ALL-EXIT ACCESS DOORWAYS FROM UNOCCUPIED AREAS TO A CORRIDOR BY TIGHT FITTING SMOKE AND DRAFT CONTROL ASSEMBLIES. DOORS AND FRAMES MUST BE APPROVED AND LABELED 20 MIN (3/4 HOUR AT WINDOW OPENINGS THAT ADHERE TO THE 25% AREA LIMITATION OF SEC 1004.3.4.3.2.2) FIRE ASSEMBLIES WITH TIGHT FITTING SMOKE AND DRAFT CONTROL AND SELF CLOSER OR AUTOMATIC CLOSER ACTIVATED BY SMOKE DETECTORS (SEC 1004.3.4.3.2).
11. FIRE HYDRANTS SHALL COMPLY WITH FIRE DEPARTMENT REQUIREMENTS FOR ON-SITE FIRE HYDRANTS
12. PLANS FOR ALL FIXED FIRE EQUIPMENT SHALL BE SUBMITTED TO THE FIRE MARSHALL BY THE FIRE PROTECTION CONTRACTOR FOR APPROVAL PRIOR TO INSTALLATION.
13. THERE MUST BE A MINIMUM OF ONE 2A10BC CLASSIFICATION FIRE EXTINGUISHER WITHIN 75 FEET TRAVEL DISTANCE FOR EACH 6,000 SQUARE FEET OR PORTION THEREOF IN EACH AREA. (U.F.C. ARTICLE 10, DIVISION V, U.F.C. STANDARD 10-1.
14. BUILDING NUMBERS SHALL BE EASILY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY (U.F.C. SEC 901.4.4)
15. ALL INTERIOR FINISHES PROVIDED COMPLY WITH (CBC CHAPTER 8).
16. ALL DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME RETARDANT CONDITION. (T19, SEC 3.08, 3.21, AND CFC 2501.5, CFC 1103.3.3.3.1
17. CAL - OSHA PERMIT: THE BUILDING PERMIT CANNOT BE ISSUED UNTIL A CONSTRUCTION ACTIVITY PERMIT HAS BEEN OBTAINED FROM THE CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (CAL-OSHA). FOR ADDITIONAL INFORMATION REFER TO THE CAL - OSHA WEBSITE AT HTTP://WWW.DIR.CA.GOV/DOSH.
18. "FIBER FLOOR FINISH MATERIALS SHALL BE CLASS I OR II PER NFPA 253 AND SHALL BE IDENTIFIED BY A HANGTAG OR OTHER SUITABLE METHOD IDENTIFYING THE MANUFACTURE, AND THE CLASSIFICATION, CARPET MATERIAL SHALL BE TESTED WITH THE UNDERLAYMENT."(SECTION 804)
19. "THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR AT LEAST 90 MINUTES. (SEC. 1006.3)"
20. "ACTIVATION OF THE BUILDING FIRE ALARM SYSTEM, SHALL AUTOMATICALLY UNLOCK THE ACCESS-CONTROLLED EGRESS DOORS, AND THE DOORS SHALL REMAIN UNLOCKED UNTIL THE FIRE ALARM SYSTEM HAS BEEN RESET. ACTIVATION OF THE BUILDING AUTOMATIC SPRINKLER OR FIRE DETECTION SYSTEM, SHALL AUTOMATICALLY UNLOCK THE DOORS. THE DOORS SHALL REMAIN UNLOCKED UNTIL THE FIRE ALARM SYSTEM HAS BEEN RESET." (SEC. 1008.1.4.4)
21. SEE STRUCT. DWGS. FOR STRUCTURAL DESIGN BASIS

DEFERRED ITEMS

ITEM NOTES:

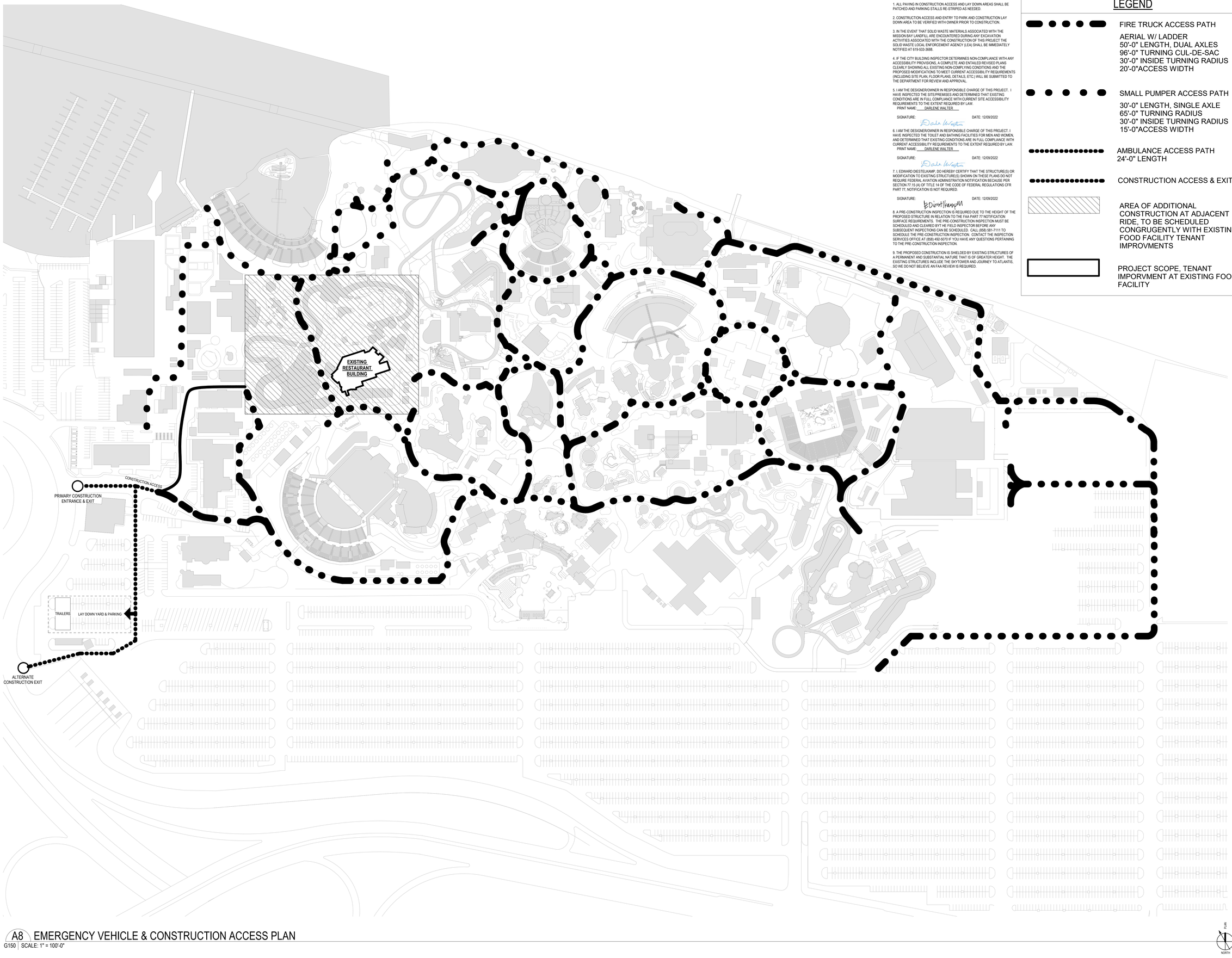
1. PLANS FOR THE DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED IN A TIMELY MANNER THAT ALLOWS A MINIMUM OF 30 WORKING DAYS FOR INITIAL PLAN REVIEW. ALL COMMENTS RELATED TO THE DEFERRED SUBMITTAL MUST BE ADDRESSED TO THE SATISFACTION OF THE PLAN CHECK DIVISION PRIOR TO APPROVAL OF THE SUBMITTAL ITEMS.
2. WE UNDERSTAND THAT WE WILL NOT BE AUTHORIZED ANY INSPECTION OF THE DEFERRED ITEMS PROPOSED PRIOR TO THE SUBMITTAL AND APPROVAL OF PLANS AND/OR CALCULATIONS FOR THOSE DEFERRED ITEMS.
3. THE RESISTERED AND RESPONSIBLE DESIGN PROFESSIONAL SHALL REVIEW THE DEFERRED SUMBITAL DOCUMENTS AND SUBMIT THEM TO THE BUILDING OFFICIAL, WITH ANNOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING.

DEFERRED ITEMS LIST

1. **FIRE SPRINKLER**
2. **FIRE SUPPRESSION FOR TYPE 1 HOODS**
3. **FIRE ALARM**

STATEMENT OF SPECIAL INSPECTIONS AND STRUCTURAL TEST:

1. THIS SECTION APPLIES TO THE STRUCTURAL PORTIONS OF THE PROJECT REQUIRING SPECIAL INS



GENERAL NOTES

1. ALL PAVING IN CONSTRUCTION ACCESS AND LAY DOWN AREAS SHALL BE PATCHED AND PARKING STALLS RE-STRIPED AS NEEDED.

2. CONSTRUCTION ACCESS AND ENTRY TO PARK AND CONSTRUCTION LAY DOWN AREA TO BE VERIFIED WITH OWNER PRIOR TO CONSTRUCTION.

3. IN THE EVENT THAT SOLID WASTE MATERIALS ASSOCIATED WITH THE MISSION BAY LANDFILL ARE ENCOUNTERED DURING ANY EXCAVATION ACTIVITIES ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT THE SOLID WASTE LOCAL ENFORCEMENT AGENCY (LEA) SHALL BE IMMEDIATELY NOTIFIED AT 619-533-3688.

4. IF THE CITY BUILDING INSPECTOR DETERMINES NON-COMPLIANCE WITH ANY ACCESSIBILITY PROVISIONS, A COMPLETE AND ENTAILED REVISED PLANS CLEARLY SHOWING ALL EXISTING NON-COMPLYING CONDITIONS AND THE PROPOSED MODIFICATIONS TO MEET CURRENT ACCESSIBILITY REQUIREMENTS (INCLUDING SITE PLAN, FLOOR PLANS, DETAILS, ETC.) WILL BE SUBMITTED TO THE DEPARTMENT FOR REVIEW AND APPROVAL.

5. I AM THE DESIGNER/OWNER IN RESPONSIBLE CHARGE OF THIS PROJECT. I HAVE INSPECTED THE SITE/PREMISES AND DETERMINED THAT EXISTING CONDITIONS ARE IN FULL COMPLIANCE WITH CURRENT SITE ACCESSIBILITY REQUIREMENTS TO THE EXTENT REQUIRED BY LAW.
PRINT NAME: DARLENE WALTER
SIGNATURE: DATE: 12/09/2022

6. I AM THE DESIGNER/OWNER IN RESPONSIBLE CHARGE OF THIS PROJECT. I HAVE INSPECTED THE TOILET AND BATHING FACILITIES FOR MEN AND WOMEN, AND DETERMINED THAT EXISTING CONDITIONS ARE IN FULL COMPLIANCE WITH CURRENT ACCESSIBILITY REQUIREMENTS TO THE EXTENT REQUIRED BY LAW.
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SIGNATURE: DATE: 12/09/2022

7. I, EDWARD DIESTELKAMP, DO HEREBY CERTIFY THAT THE STRUCTURE(S) OR MODIFICATION TO EXISTING STRUCTURE(S) SHOWN ON THESE PLANS DO NOT REQUIRE FEDERAL AVIATION ADMINISTRATION NOTIFICATION BECAUSE PER SECTION 77.15 (A) OF TITLE 14 OF THE CODE OF FEDERAL REGULATIONS CFR PART 77, NOTIFICATION IS NOT REQUIRED.

SIGNATURE: DATE: 12/09/2022

8. A PRE-CONSTRUCTION INSPECTION IS REQUIRED DUE TO THE HEIGHT OF THE PROPOSED STRUCTURE IN RELATION TO THE FAA PART 77 NOTIFICATION SURFACE REQUIREMENTS. THE PRE-CONSTRUCTION INSPECTION MUST BE SCHEDULED AND CLEARED BY THE FIELD INSPECTOR BEFORE ANY SUBSEQUENT INSPECTIONS CAN BE SCHEDULED. CALL (858) 581-7111 TO SCHEDULE THE PRE-CONSTRUCTION INSPECTION. CONTACT THE INSPECTION SERVICES OFFICE AT (858) 492-5070 IF YOU HAVE ANY QUESTIONS PERTAINING TO THE PRE-CONSTRUCTION INSPECTION.

9. THE PROPOSED CONSTRUCTION IS SHIELDED BY EXISTING STRUCTURES OF A PERMANENT AND SUBSTANTIAL NATURE THAT IS OF GREATER HEIGHT. THE EXISTING STRUCTURES INCLUDE THE SKYTOWER AND JOURNEY TO ATLANTIS, SO WE DO NOT BELIEVE AN FAA REVIEW IS REQUIRED.

LEGEND

- FIRE TRUCK ACCESS PATH
  AERIAL W/ LADDER
  50'-0" LENGTH, DUAL AXLES
  96'-0" TURNING CUL-DE-SAC
  30'-0" INSIDE TURNING RADIUS
  20'-0"ACCESS WIDTH
- SMALL PUMPER ACCESS PATH
  30'-0" LENGTH, SINGLE AXLE
  65'-0" TURNING RADIUS
  30'-0" INSIDE TURNING RADIUS
  15'-0"ACCESS WIDTH
- AMBULANCE ACCESS PATH
  24'-0" LENGTH
- CONSTRUCTION ACCESS & EXIT
- AREA OF ADDITIONAL CONSTRUCTION AT ADJACENT RIDE, TO BE SCHEDULED CONGRUGENTLY WITH EXISTING FOOD FACILITY TENANT IMPROVMENTS
- PROJECT SCOPE, TENANT IMPORVMENT AT EXISTING FOOD FACILITY

PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
200 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318
WWW.PGAV.COM

LICENSED ARCHITECT
EDWARD J DIESTELKAMP
C-34039
31 DEC 2023
Renewal Date
STATE OF CALIFORNIA

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REVISION SCHEDULE

NO	DESCRIPTION	DATE

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

EMERGENCY VEHICLE & CONSTRUCTION ACCESS PLAN

DATE	12/09/2022
DR MWJ	CK EJP
PGAV 64115-00	CLIENT SEA

SHEET NUMBER
G150

A8 EMERGENCY VEHICLE & CONSTRUCTION ACCESS PLAN
G150 | SCALE: 1" = 100'-0"

NORTH

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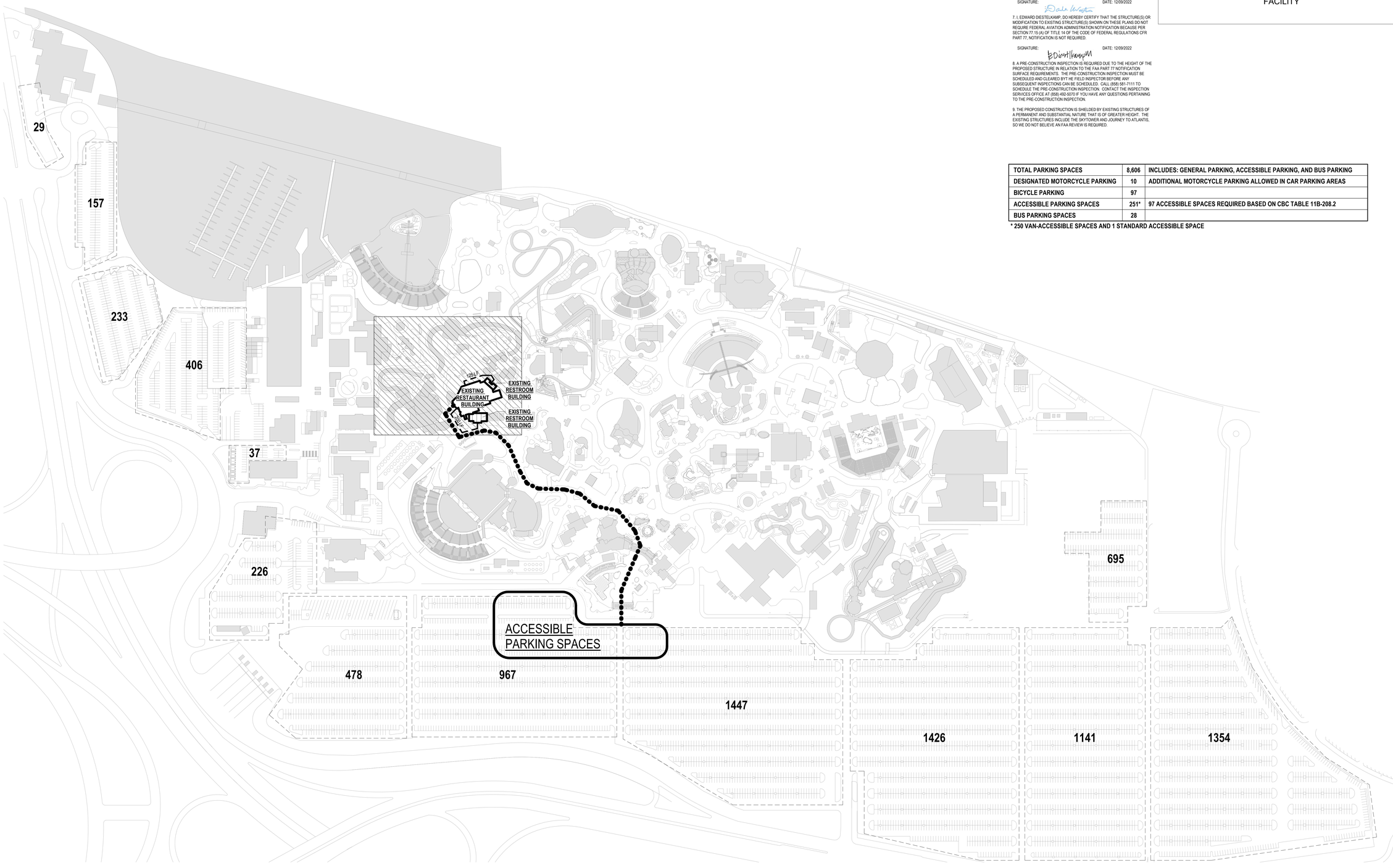

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LEGEND

●●●●●●●●●●●●●●	ADA ACCESS PATH
XX LF – – – – – – – –	RESTROOM ACCESS PATH
	AREA OF ADDITIONAL CONSTRUCTION AT ADJACENT RIDE, TO BE SCHEDULED CONGRUGENTLY WITH EXISTING FOOD FACILITY TENANT IMPROVMENTS
	PROJECT SCOPE, TENANT IMPORVMENT AT EXISTING FOOD FACILITY

TOTAL PARKING SPACES	8,606	INCLUDES: GENERAL PARKING, ACCESSIBLE PARKING, AND BUS PARKING
DESIGNATED MOTORCYCLE PARKING	10	ADDITIONAL MOTORCYCLE PARKING ALLOWED IN CAR PARKING AREAS
BICYCLE PARKING	97	
ACCESSIBLE PARKING SPACES	251*	97 ACCESSIBLE SPACES REQUIRED BASED ON CBC TABLE 11B-208.2
BUS PARKING SPACES	28	

*** 250 VAN-ACCESSIBLE SPACES AND 1 STANDARD ACCESSIBLE SPACE**

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LICENSED ARCHITECT
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Renewal Date
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REVISION SCHEDULE		
NO	DESCRIPTION	DATE

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

ADA ACCESS PLAN

DATE	12/09/2022
DR MWJ	CK EJP
PGAV 64115-00	CLIENT SEA
SHEET NUMBER	G151

A8 ADA AND RESTROOM ACCESS PLAN / PARKING PLAN
G151 | SCALE: N.T.S.
A501

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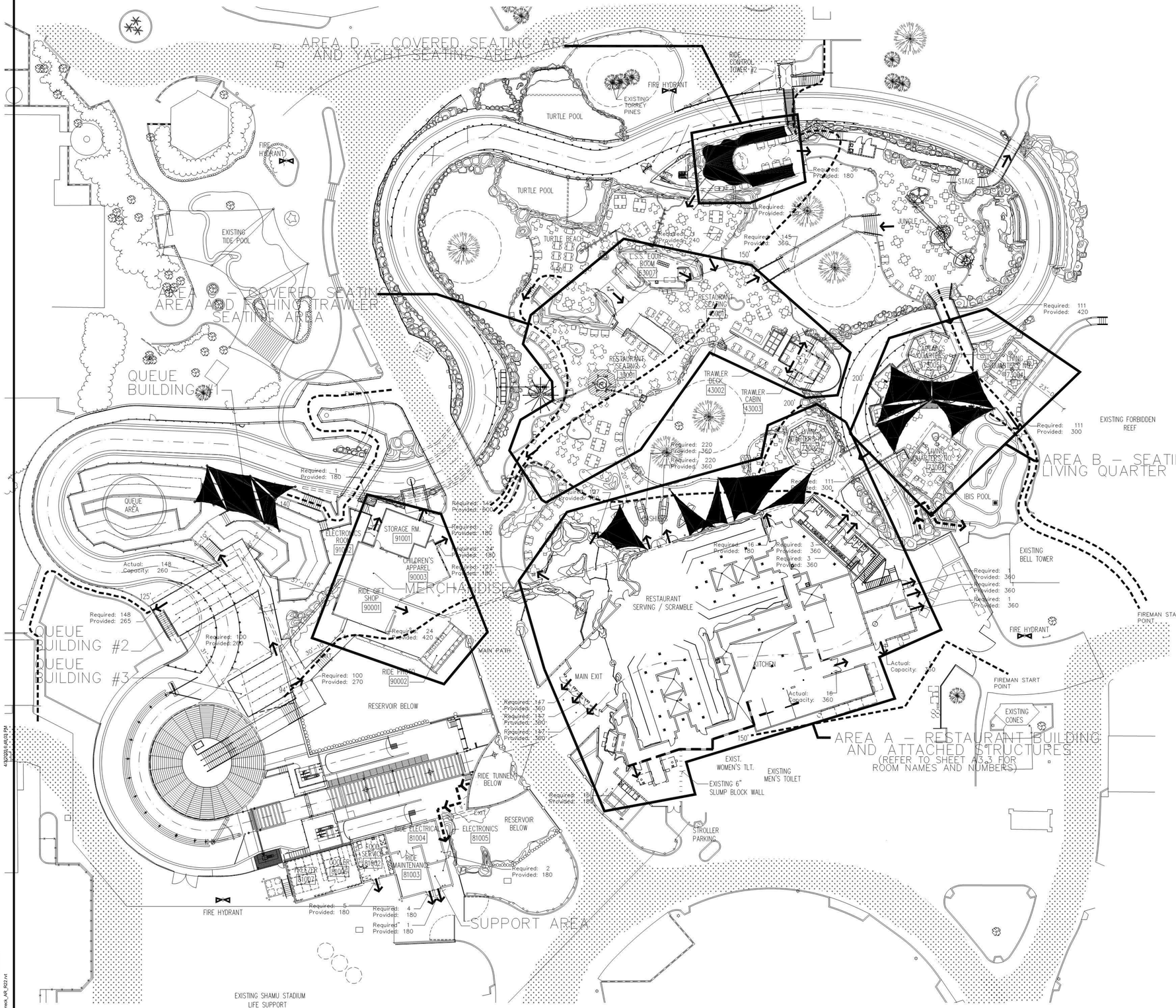

F1 CODE COMPLIANCE PLAN AND FIREMAN ACCESS PLAN
A1.11 1" = 20'-0"

LEGEND

- 1 HR. WALL
- 4 HR. WALL
- FIREMAN TRUCK ACCESS
- FIREMAN ACCESS
- FIRE HYDRANT
- AREA LOCATIONS
- AWNING

EGRESS INFORMATION:
Required: 00 = Number of occupants
Provided: 00 = Exit capacity

GENERAL:

1. CODE REVIEW IS BASED ON 1994 U.B.C.AND LOCAL AMENDMENTS.
2. SEE SHEET A1.12 FOR CODE REVIEW BACK-UP, CALCULATIONS, AND TUNNEL EXITING PLAN
3. SEE SHEET A2-1 FOR FIRE TRUCK ACCESS DURING CONSTRUCTION
4. SEE SHEET A1.1 FOR DIAGRAM SHOWING ACCESSIBLE PARKING AREA RELATIVE TO PROJECT LOCATION.
5. SEE SHEET A1-1 FOR GENERAL BUILDING DEPARTMENT NOTES.
6. SEE REFLECTED CEILING PLANS FOR LOCATION OF EXIT LIGHTS.
7. REFER TO SHEET A6-2 FOR ROOF AND AWNING SPECIFICATIONS.

PROJECT DESCRIPTION:

PREVIOUSLY APPROVED UNDER 1994 U.B.C. & LOCAL AMMENDMENTS.

RESTAURANT
Area - A
Main Building and Adjacent Structures

A. Building Classification:	Group A3.1	Section 302				
B. Construction Type:	I/1 hr (Occ.Sep.)	Table - 09				
	II - FR (Kitchen & Cocktail Lounge)					
	w/ Fire Resistance Substitution per Section 306					
C. Floor Area / Height:						
	1. Maximum allowable Stories	2	Table 5 - B			
	2. Maximum allowable Area	13,500 sf	Table 5 - B			
	Section 505 - Allowable Area Increase:					
	Frontage Increase, 3 Separation on Three Sides:					
	0.4 x 13,500 =	20,700 sf				
	3. Maximum allowable Height	60 ft	Table 5 - B			
	4. Actual Building Footprint Area	18,000 sf				
	(Includes exterior covered area)					
	5. Actual Building Stories	2				
	6. Actual Building Height	29 ft				
D. Fire Protection						
Are Sprinklers Required?	Yes	Section 904.2.2 and 904.2.3				
Are standpipes required?	Yes	Code § 4				
Actual Provisions:		Auto-Sprinklers Provided Throughout				
		Auto Fire Alarm Provided				

E. Minimum Egress and Access Requirements
See Table 10 - A, for Minimum Egress Requirements

Room No.	Description	Area	Use	Occupancy Load Factor	Occupancy	
Main Building						
20001	Dishwash	2,682 sf	Assembly - Less Conc.	15	179	A
20002	Serving Line 3	627 sf	Assembly - Conc.	15	42	
20003	Serving Line 2	1,020 sf	Assembly - Conc.	15	68	
20004	Support Area	101 sf	Kitchen	200	1	
20005	Support Area	77 sf	Kitchen	200	1	
20006	Serving Line 2	527 sf	Assembly - Conc.	15	35	A
20007	Serving Line 3	466 sf	Assembly - Conc.	15	32	
20008	Support Area	470 sf	Kitchen	200	3	
20009	Support Area	77 sf	Kitchen	200	1	
20010	Support Area	77 sf	Kitchen	200	1	
20011	Serving Line 4	613 sf	Assembly - Conc.	15	41	A
11011	Display Cooking Support	267 sf	Kitchen	200	2	
11008	Hall	445 sf	Other	100	5	
11003	Smoke Room	85 sf	Kitchen	200	1	
11004	Smoke Room	85 sf	Kitchen	200	1	
11005	Kitchen Support	228 sf	Kitchen	200	2	
11006	Charbroiler	299 sf	Kitchen	200	2	
11007	Cook Line	307 sf	Kitchen	200	2	
11008	Dishwash	830 sf	Kitchen	200	4	
11009	Cook Line	1,140 sf	Kitchen	200	6	
11010	Kitchen Support	140 sf	Kitchen	200	1	
11011	Office	84 sf	Office	100	1	
11012	Walk-In Cooler	140 sf	Storage	300	1	
11013	Dry Storage	670 sf	Storage	300	3	
11014	Cook and Holds	80 sf	Kitchen	200	1	
11015	Hall	809 sf	Other	100	4	
11016	Janitors Closet	49 sf	Storage	300	1	
11017	Tray Cleaning	500 sf	Kitchen	200	3	
11018	Cooler					
	- Freezer	171 sf	Storage	300	1	
	- Cooler	459 sf	Storage	300	2	
	- Cooler	513 sf	Storage	300	2	
11002	Janitorial	49 sf	Mechanical Equip.	300	1	
11003	Mechanical	280 sf	Mechanical Equip.	300	1	
11004	Janitors Closet	18 sf	Storage	300	1	
11005	Electronics	49 sf	Mechanical Equip.	300	1	
70001	Mens Toilet	228 sf	Other	100	3	
70002	Womens Toilet	228 sf	Other	100	3	
72101	Storage	1,000 sf	Storage	300	4	
	Subtotal	13,702 sf			549 People	A
Exterior Covered Spaces						
20001	Pantsound Queue	761 sf	Assembly - Conc.	15	50	
20002	Cashiers	1,036 sf	Assembly - Less Conc.	15	74	A
73001	Seating	1,091 sf	Assembly - Less Conc.	15	73	
73002	Seating - Starlens No. 1	3,181 sf	Assembly - Less Conc.	15	212	A
	Subtotal	6,067 sf			409 People	
F. Exits Required - Section 1005						
Minimum Number of Required Exits		4 Exits	Section 1005.1	*		
Minimum Unit Width (0.2 x 549)		109.8 inches	Section 1005.2			
Main Exit Width (Section 1016.1)		4 - 3'-0" Doors	= 1 - Pair 3'-0" Doors	216 inches		
Other Exits				216 inches		

PREVIOUS CODE SHEET - FOR REFERENCE

Revisions

Number	Description	Date
1		
2		

Dr CEC / RP Ck JJB

Date April 6, 1998
Code Compliance Plan and Fireman Access Plan
Job no. 4011-00
Sheet no. A1.11

1999 Shipwreck Attraction
Sea World of California
Busch Entertainment Corporation

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PECKHAM GUYTON ALBERS & VIETS, INC.
2200 West Broadway, Suite 1000, St. Louis, MO 63102
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Peckham Guyton Albers & Viets Inc.

REVISION SCHEDULE

NO	DESCRIPTION	DATE
2	Revision 01	03/15/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

ORIGINAL PROJECT CODE SHEET

DATE 12/09/2022

DR	CK
MWJ	EJP
PGAV	CLIENT
64115-00	SEA

SHEET NUMBER G301

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LEGEND

- PROJECT LIMIT LINE
- ASSUMED PROPERTY LINE
- EMERGENCY ACCESS PATH
- GUEST PATH
- 2 OCC — OCCUPANT LOAD FOR AREA
- ## OCCUPANTS / ##" REQUIRED / ##" PROVIDED — OCCUPANT LOAD ASSIGNED TO EXIT; REQUIRED EXIT WIDTH; ACTUAL WIDTH PROVIDED
- EXIT DISCHARGE - DIRECTION OF ACCESS TO PUBLIC WAY
- TRAVEL DISTANCE
- F.E. — FIRE EXTINGUISHER (MAX DISTANCE TO F.E. = 75')
- EXIT SIGN (PROVIDE ADJACENT TACTILE SIGNAGE)
- ILLUMINATED EXIT SIGN (PROVIDE ADJACENT TACTILE SIGNAGE)
- EXISTING EXIT DISCHARGE - SEE G301, NOT CHANGED AS PART OF THIS SCOPE

PREVIOUSLY APPROVED UNDER 1994 U.B.C. & LOCAL AMMENDMENTS.

RESTAURANT

Area = A
Main Building and Adjacent Structures

A- Building Classification: Group A2.1 — Section 302
B- Construction Type: I,1 H (Unlimited, in lieu of) Table - 5B
w / Fire Resistance Substitution per Section 906
C- Floor Area Allowance:
a. Maximum allowable Stories — Table 5 - B
b. Maximum allowable Area 13,500 sf — Table 5 - B
Section 505 - Allowable Area Increases: Sections503.1.2 Separation on Three Sides: 0 ft x 13,500 — 39,790 sf
b Maximum allowable Height 65 ft — Table 5 - B
a Actual Building Footprint Area (Includes exterior covered area) 18,000 sf
d Actual Building Stories 2
e Actual Building Height 25 ft
D- Fire Protection
Are Sprinklers Required? No — Section 904.2.2 and 904.2.3
Are standpipes Required? No — Table 905.3.1
Actual Provisions: Fully Sprinklered Throughout; Auto Fire Alarm Provided
E- Minimum Egress and Access Requirements
See Table 10 - A for Minimum Egress Requirements

Room No.	Description	Area	Use	OCCUPANT LOAD Occupant/Unit sf / # Occupancy FACTOR SF/OCC		
Main Building						
20001	Scramble	4,660 sf	Assembly - Less Conc.	15	160	D
20010	Serving Line 1	520 sf	Assembly - Conc.	15	35	
20009	Support Area	974 sf	Kitchen	200	5	
20007	Support Area	171 sf	Kitchen	200	1	
20005	Support Area	77 sf	Kitchen	200	1	
20006	Serving Line 2	547 sf	Assembly - Conc.	15	37	D
20003	Serving Line 3	407 sf	Assembly - Conc.	15	28	D
20008	Support Area	479 sf	Kitchen	200	3	
20004	Support Area	77 sf	Kitchen	200	1	
20002	Support Area	77 sf	Kitchen	200	1	
20011	Seating Line 4	913 sf	Assembly - Conc.	15	61	D
11021	Display Cooking Support	307 sf	Kitchen	200	2	
11002	Hall	440 sf	Other	100	5	
11003	Smoke Room	90 sf	Kitchen	200	1	
11004	Janitors Closet	25 sf	Storage	300	1	
11005	Kitchen Support	299 sf	Kitchen	200	2	
11006	Dishwash	299 sf	Kitchen	200	2	
11007	Cook Line	347 sf	Kitchen	200	2	
11008	Kitchen	833 sf	Kitchen	200	5	
11009	Lockers	66 sf	Kitchen	200	1	
11010	Kitchen Support	66 sf	Kitchen	200	1	
11011	Offices	24 sf	Kitchen	200	1	
11012	Walk In Cooler	140 sf	Storage	300	1	
11013	Dry Storage	670 sf	Storage	300	3	
11014	Cook and Holds	66 sf	Kitchen	200	1	
11015	Hall	329 sf	Other	100	4	
11016	Janitors Closet	43 sf	Storage	300	1	
11017	Tray Cleaning	328 sf	Kitchen	200	2	
11018	Cooler					
	- Freezer	171 sf	Storage	300	1	
	- Cooler	454 sf	Storage	300	2	
	- Beer	213 sf	Storage	300	1	
11022	Electrical	66 sf	Mechanical Equip.	300	1	
11023	Mechanical	385 sf	Mechanical Equip.	300	1	
11024	Janitors Closet	18 sf	Storage	300	1	
11025	Electronics	49 sf	Mechanical Equip.	300	1	
72001	Men's Toilet	228 sf	Other	100	3	
72002	Women's Toilet	228 sf	Other	100	3	
72101	Storage	898 sf	Storage	300	3	D
	Subtotal	17,772 sf			377 People	
Exterior Covered Spaces						
20001	Restaurant Queue	781 sf	Assembly - Conc.	15	52	D
20002	Cashiers	1,136 sf	Assembly - Less Conc.	15	76	D
73001	Seating	1,091 sf	Assembly - Less Conc.	15	73	D
73002	Living Quarters No. 1	457 sf	Assembly - Less Conc.	15	31	D
	Subtotal	3,357 sf			232 People	
F- Exits Required - Section 1008						
Minimum Number of Required Exits		4 Exits	Section 1003.1			
Minimum Use Width = (457 x 0.2) =		185.4 inches	Section 1003.2			
Main Exit Width (Section 1018.2)		4 - 3'-0" Doors	=	288 inches		
Other Exits		1 - 3'-0" Doors	+	1 - Pair 2'-0" Doors	312 inches	

REVISED CAPACITY
TENTANT IMPROVEMENT:
237 PEOPLE

NO CHANGES TO EXTERIOR DOORS BUT GUEST & EMPLOYEE CAPACITIES HAVE BEEN MODIFIED PER ABOVE.

PERMIT SCOPE OF WORK:
- INTERIOR RENOVATION OF EXISTING FOOD FACILITY
- FOOD FACILITY AREAS TO INCLUDE RENOVATION OF KITCHEN & GUEST SCRAMBLE AREA
- INTERIOR FINISH REFRESH
- FACILITY NAME TO REMAIN - SHIPWRECK CAFE

EXISTING USE = THEMEPARK
PROPOSED USE = THEMEPARK
ASSESSOR'S PARCEL NUMBER: 760-037-01-01

0' 4' 8' 16' 32' NORTH

A8 TENANT IMPROVEMENT CODE COMPLIANCE PLAN
G302 | SCALE: 1" = 10'-0"

PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
220 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318
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LICENSED ARCHITECT — EDWARD J. JOESTELKAMP — C-34039 — 31 DEC 2023 Renewal Date — STATE OF CALIFORNIA

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND NOT TO ANY REPRODUCTIONS OR TRANSFERS TO ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR PROJECTS WITH WHICH THEY ARE INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

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REVISION SCHEDULE		
NO	DESCRIPTION	DATE
2	Revision 01	03/15/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

TENANT IMPROVEMENT CODE SHEET

DATE 12/09/2022
DR MWJ | CK EJP
PGAV 64115-00 | CLIENT SEA
SHEET NUMBER G302

Autodesk Docs://64115-00 SWSD Shipwreck Cafe/64115-00_SWSD_Shipwreck_AR_R22.rvt
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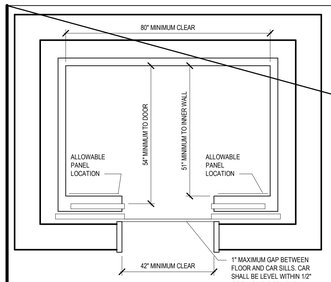
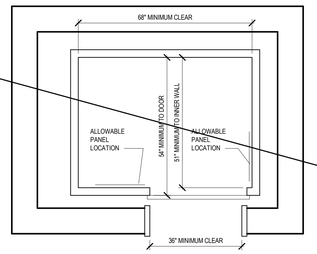
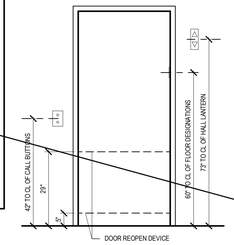


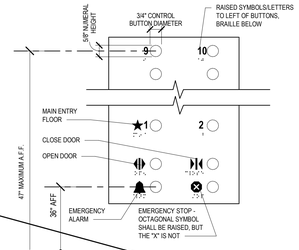
CENTER OPENING DOOR



OFFSET OPENING DOOR

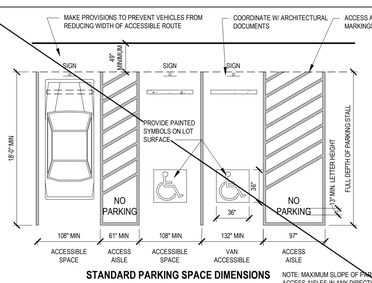


ELEVATION @ ELEVATOR



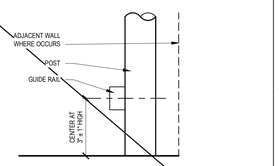
INSIDE ELEVATOR PANEL

ELEVATORS

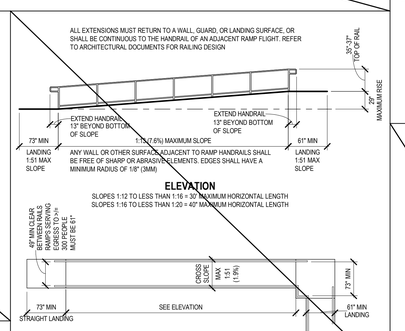


STANDARD PARKING SPACE DIMENSIONS NOTE: MAXIMUM SLOPE OF PARKING SPACES & ACCESS AISLES IN ANY DIRECTION 1:51 (1.9%)

ACCESSIBLE PARKING



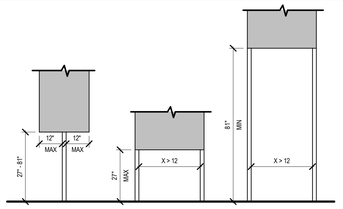
GUIDE RAIL DETAIL



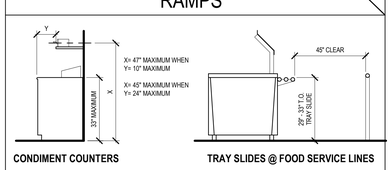
PLAN

RAMPS

EXTERIOR WALKING SURFACES

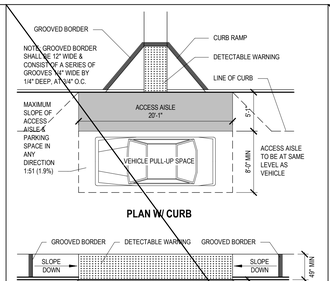


POST-MOUNTED PROTRUDING OBJECTS

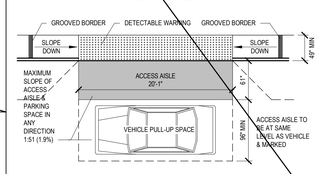


CONDIMENT COUNTERS **TRAY SLIDES @ FOOD SERVICE LINES**

FOOD SERVICE

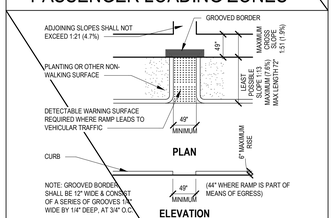


PLAN W/ CURB

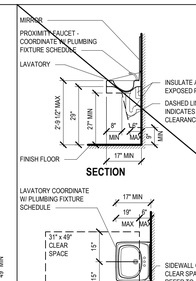


PLAN - NO CURB

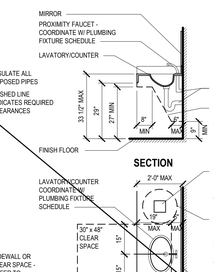
PASSENGER LOADING ZONES



CURB RAMPS



NO SHARP EDGES OR ABRASIVE SURFACES ALLOWED UNDER LAVATORIES



LAVATORIES

MISCELLANEOUS ACCESSIBLE HEIGHTS AFF

FIRE ALARM SIGNAL 80" TO BOTTOM OF UNIT

FIRE ALARM PULL STATION 47" @ PULL

FIRE EXTINGUISHER 47" @ HANDLE

LIGHT SWITCH 47" @ CENTERLINE

THERMOSTAT 47" @ OPERATION POINT

ELECTRIC OUTLET 16" @ CENTERLINE OF LOWEST OUTLET UNLESS NOTED OTHERWISE

NOTE TO CONTRACTOR:

It is the Owner's desire and policy to provide full accessibility to persons with disabilities.

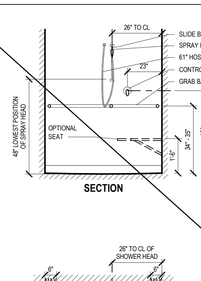
This sheet indicates dimensions for elements of the work that affect accessibility for persons with disabilities. THESE DIMENSIONAL REQUIREMENTS ARE NOT ALWAYS SET AT THE LIMITS ESTABLISHED IN THE APPLICABLE ACCESSIBILITY REGULATIONS. Where the regulations establish minimums, these drawings exceed them. Where they establish maximums, these drawings provide for smaller dimensions. These drawings match the fixed dimensions of the installations.

The Contractor shall compare dimensions on all documents to the dimensions on this sheet to ensure compatibility and that all installations will comply with these requirements.

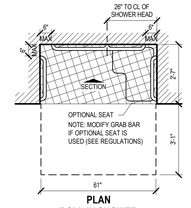
Other dimensions shall take precedence over the dimensions on this sheet, provided they do not create a violation. Contractor shall report any discrepancies to the Owner and acquire an approved resolution prior to proceeding.

Product manufacturer and model number references are for establishing the basis for dimensions. Select the fixtures specified int he project documents, ensuring adherence to the accessibility requirements.

This drawing is provided to establish required dimensions of certain elements for accessibility for this project. Applicable accessibility regulations are fully in force, whether or not described hereon. Contractor shall meet the requirements of both these drawings and all applicable regulations.

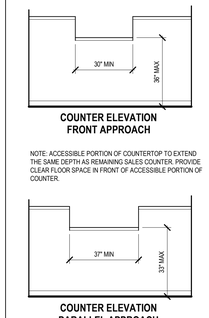


NOTE: ADA 2010 SECTION 607.5 CONTROLS: CONTROLS OTHER THAN DRAINS SHALL BE ON END WALLS.



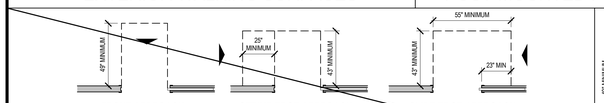
NOTE: TRANSFER TYPE SHOWERS NOT PERMITTED BY THE CBC

SHOWERS

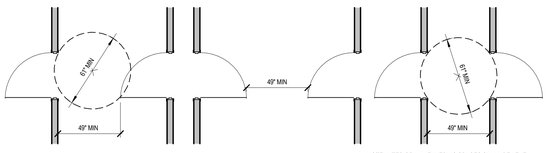


SERVICE COUNTER

DO NOT SCALE THESE DRAWINGS. ALL DIMENSIONS SHOWN TO WALLS ARE TO THE FINISHED FACE. REFER TO OTHER CONTRACT DOCUMENTS TO DETERMINE WHICH ELEMENTS ARE INCLUDED IN THE SCOPE OF THIS PROJECT.

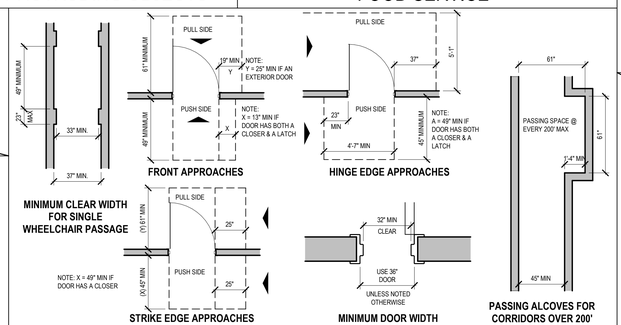


MANEUVERING CLEARANCES AT SLIDING DOORS

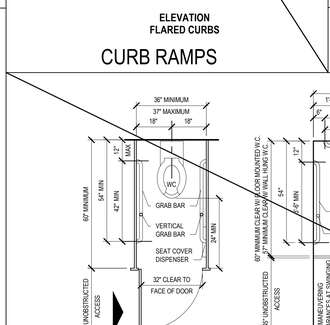


SWING DOORS IN SERIES

NOTE: INTERIOR MANEUVERING SPACES SHALL BE LEVEL. EXTERIOR MANEUVERING SPACES SHALL HAVE A MAXIMUM SLOPE OF 1:51 (1.9%). REFER TO CODE SHEETS FOR MINIMUM EGRESS WIDTH.

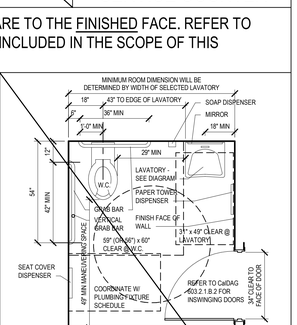


MANEUVERING CLEARANCES AT SWINGING DOORS

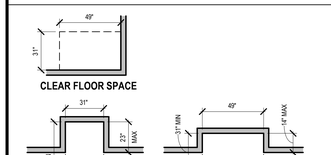


GENERAL NOTES FOR ALL STALLS:
1. WATER CLOSET MUST BE IN CORNER DIAGONAL FROM DOOR (WITH THE EXCEPTION OF AMBULATORY STALLS)
2. DOORS SHALL BE SELF-CLOSING.
3. DIAGRAMS ARE FOR WALL-HUNG WATER CLOSETS.

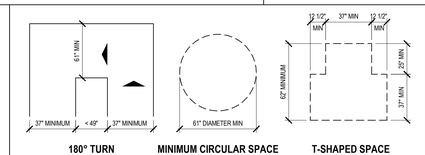
STANDARD ACCESSIBLE STALL



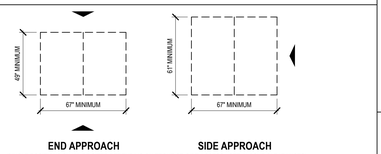
ACCESSIBLE SINGLE-USER TOILET ROOM



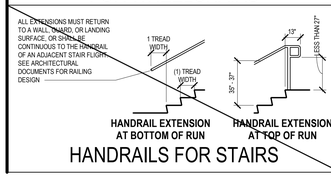
MINIMUM CLEAR FLOOR SPACES FOR WHEELCHAIRS



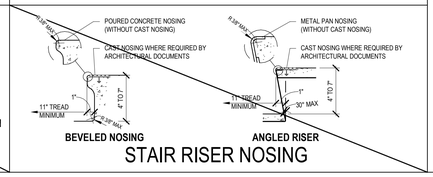
WHEELCHAIR TURNS



MINIMUM WHEELCHAIR SPACES FOR ASSEMBLY AREAS



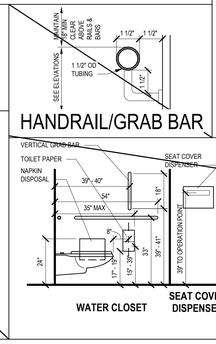
HANDRAILS FOR STAIRS

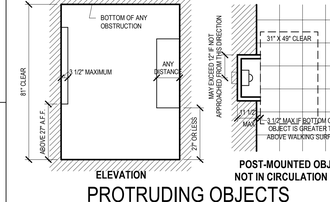


STAIR RISER NOSING

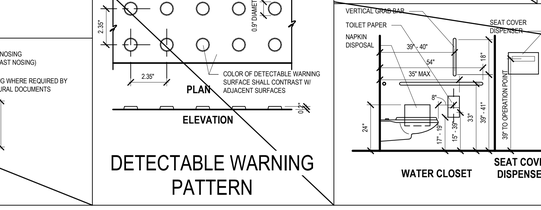
WALKING SURFACE

DETECTABLE WARNING PATTERN



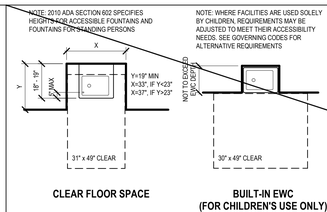


PROTRUDING OBJECTS INTO CIRCULATION PATHS



WATER CLOSET **SEAT COVER DISPENSER** **WATER CLOSET** **LAVATORY IN COUNTER**

FIXTURES & ACCESSORIES



ELECTRIC WATER COOLER (EWC) ARRANGEMENTS

INFORMATION BASED ON MOST RESTRICTIVE OF:
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- CALIFORNIA ACCESSIBILITY CODE - AS PUBLISHED IN THE CALIFORNIA BUILDING CODE, 2019

UPDATED FEBRUARY 02, 2022 - RDF

PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
2020 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318 WWW.PGAV.COM

LICENSED ARCHITECT
EDWARD J. HENTELKAMP
C-34039
31 DEC 2023
Renewal Date
STATE OF CALIFORNIA

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REVISION SCHEDULE		
NO	DESCRIPTION	DATE

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

GENERAL ACCESSIBILITY REQUIREMENTS

DATE	12/09/2022
DR MWJ	CK EJP
PGAV 64115-00	CLIENT SEA

SHEET NUMBER

G351

12/9/2022 1:31:04 PM
Autodesk Docs://64115-00 SWSD Shipwreck Cafe/64115-00_SWSD_Shipwreck_AR_R22.rvt

ABBREVIATIONS

	Channel		
∠	Angle		
℄	Centerline		
ø	Diameter		
"	Inch or Inches		
#	Number / Pound		
&	And		
'	Feet or Foot		
@	At		
°	Degree		
A			
A/C	Air Conditioning		
AB	Anchor Bolt		
ACCOM	Accommodate		
ACT	Acoustical Ceiling Tile		
AD	Area Drain		
ADDN	Addition		
ADJ	Adjustable / Adjacent		
AFF	Above Finish Floor		
AHU	Air Handling Unit		
ALT	Alternate		
ALUM	Aluminum		
ANSI	American National Standards Institute		
APL	Acoustic Plaster		
ARCH	Architect(ural)		
ASPH	Asphalt		
ASTM	American Society for Testing Materials		
AUTO	Automatic		
AUX	Auxiliary		
AVG	Average		
B			
B.M.	Benchmark		
BC	Bookcase		
BD	Board		
BEN	Bench		
BLDG	Building		
BLK	Block		
BLKG	Blocking		
BLT-IN	Built-in		
BM	Beam		
BOT	Bottom		
BRG	Bearing		
BRK	Brick		
BSMT	Basement		
BTW	Between		
C			
CAB	Cabinet		
CANT	Cant Strip		
CANTL	Cantilever		
CB	Catch Basin		
CFCI	Contractor Furnished Contractor Installed		
CH	Chair		
CHAM	Chamfer		
CIP	Cast-in-place		
CJ	Control Joint		
CL	Closet		
CLG	Ceiling		
CLR	Clear		
CM	Centimeters		
CMU	Concrete Masonry Unit		
CNTR	Counter		
CO	Clean Out		
COL	Column		
COMP	Composite / Composition		
CONC	Concrete		
CONST	Construction		
CONT	Continuous		
CONTR	Contractor		
CONV	Convector		
COORD	Coordinate		
COR	Corner		
CORR	Corridor		
CP	Concrete Paving		
CPT	Carpet		
CPTT	Carpet Tile		
CS	Concrete Stain/Sealer		
CSWK	Casework		
CT	Ceramic Tile		
CTP	Ceramic Tile Piece		
CU	Condensing Unit		
CW	Cold Water		
CWO	Coordinate With Owner		
CYL	Cylinder		
D			
DB	Decibel		
DBL	Double		
DEMO	Demolition		
DET	Detail		
DF	Drinking Fountain		
DIA	Diameter		
DIM	Dimension		
DIR	Direction		
DN	Down		
DR	Door		
DRWR	Drawer		
DS	Downspout		
DSP	Dry Standpipe		
DUP	Duplicate		
DWG	Drawing		
DWL	Dowel		
E			
EA	Each		
EH	Electric Heater		
EJ	Expansion Joint		
ELEC	Electrical		
ELEV	Elevation		
ENTR	Entrance		
EP	Electric Panelboard		
EQ	Equal		
EQUIP	Equipment		
ET	Edge Trim		
EWC	Electric Water Cooler		
EWH	Electric Water Heater		
EXG	Existing		
EXH	Exhaust		
EXP	Expansion		
EXPCON	Exposed Concrete		
C			
EXT	Exterior		
F			
FA	Fire Alarm		
FAB	Fabricate / Fabric		
FB	Face Brick		
FC	Footcandle		
FD	Floor Drain		
FDN	Foundation		
FEC	Fire Exstinguisher Cabinet		
FFE	Finish Floor Elevation		
FHC	Fire Hose Cabinet		
FHYD	Fire Hydrant		
FIN	Finish		
FL	Floor		
FLASH	Flashing		
FLUOR	Fluorescent		
FOM	Face of Masonry		
FOS	Face of Stud		
FP	Fireplace / Fireproof		
FR	Frame		
FRD	Fire Damper		
FRP	Fiberglass Reinforced Panel		
FS	Full Size		
FT	Feet/Foot or Floor Transition		
FTG	Footing		
FUR	Furred(ing)		
FURN	Furnace		
FV	Field Verify		
G			
GA	Gauge		
GAL	Gallon		
GALV	Galvanized		
GC	General Contractor		
GD	Garbage Disposal		
GFRC	Glass Fiber Reinforced Concrete		
GKT	Gasket		
GL	Glass / Glazing		
GND	Ground		
GPM	Gallons Per Minute		
GR	Grade		
GSF	Gross Square Footage		
GT	Grout		
GWB	Gypsum Wall Board		

		H	
		HB	Hose Bib
		HC	Hollow Core
		HD	Head
		HDCP	Handicapped
		HDW	Hardware
		HDWD	Hardwood
		HM	Hollow Metal
		HORIZ	Horizontal
		HP	High Pressure
		HPC	High Performance Coating
		HPT	High Point
		HR	Hour
		HT	Height
		HTG	Heating
		HTR	Heater
		HVAC	Heating, Ventilation, & Air Conditioning
		HW	Hot Water
		I	
		ID	Interior Design(er) / Inside Dimension
		IN	Inch
		INCAND	Incandescent
		INCL	Include(d)(ing)
		INFO	Information
		INSTAL	Installation
		INSUL	Insulation
		INT	Interior
		IRREG	Irregular
		J	
		JAN	Janitor
		JCT	Junction
		JST	Joist(s)
		JT	Joint
		K	
		KD	Kiln Dried
		KO	Knock Out
		KPL	Kickplate
		L	
		L	Length
		LAB	Laboratory
		LAM	Laminate(d)
		LAV	Lavatory
		LBS	Pounds
		LF	Linear Feet
		LIN	Linear
		LL	Live Load
		LNTL	Lintel
		LOC	Location
		LPT	Low Point
		LT	Light
		LUMB	Lumber
		LVR	Louver
		LW	Lightweight
		M	
		M	Meter
		MACH	Machine
		MAINT	Maintenance
		MAS	Masonry
		MATL	Material(s)
		MAX	Maximum
		MC	Medicine Cabinet
		MDF	Medium Density Fiber Board
		MDO	Medium Density Overlay
		MECH	Mechanical
		MED	Medium
		MEP	Mechanical, Electrical, Plumbing
		MFR	Manufacturer
		MH	Manhole
		MIN	Minimum
		MIR	Mirror
		MISC	Miscellaneous
		ML	Metal Lockers
		MLAM	Metal Laminate
		MLDG	Molding
		MM	Millimeter
		MO	Masonry Opening
		MR	Moisture Resistance
		MRBL	Marble
		MS	Motion Sensor
		MT	Mosaic Tile
		MTD	Mounted
		MTG	Meeting
		MTL	Metal
		MULL	Mullion
		MW	Microwave
		MWP	Metal Wall Panel
		MWT	Mosaic Wall Tile
		N	
		NA	Not Applicable
		NIC	Not In Contract
		NO	Number
		NOM	Nominal
		NRC	Noise Reduction Coefficient
		NTS	Not To Scale
		O	
		O to O	Out to Out
		OC	On Center
		OD	Outside Diameter
		OF	Over Frame
		OFCI	Owner Furnished Contractor Installed
		OFOI	Owner Furnished Owner Installed
		OH	Overhang
		OPG	Opening
		OPH	Opposite Hand
		OPP	Opposite
		OPROV	Owner Provided
		OSB	Oriented Strand Board
		OSUP	Owner Supplied
		P	
		PARTBD	Particle Board
		PDC	Protect During Construction
		PF	Poured Floor
		PFB	Poured Floor Base
		PFN	Pre-finished
		PFT	Porcelain Floor Tile
		PL	Plastic Laminate
		PLAS	Plaster
		PLAT	Platform
		PLBG	Plumbing
		PLYWD	Plywood
		PNL	Panel
		POL	Polished
		PR	Pair
		PRCST	Precast
		PREFAB	Prefabrication
		PRELIM	Preliminary
		PRF	Performed
		PROJ	Projection
		PROV	Provide(d)
		PSF	Pound Per Square Foot
		PSI	Pound Per Square Inch
		PT	Paint
		PTB	Porcelain Tile Base
		PTD	Painted
		PTN	Partition
		PVC	Polyvinyl Chloride
		PVT	Private
		Q	
		QT	Quarry Tile
		QTR RND	Quarter Round
		QTY	Quantity
		R	
		R	Radius/Riser
		R/A	Return Air
		RAD	Radiator
		RB	Resilient Base
		RD	Roof Drain
		REBAR	Reinforcing Bar
		REC	Recycling Receptacle
		RECP	Receptacle
		REF	Reference
		REINF	Reinforcement(ed)
		RELOC	Relocate
		REQ	Require(d) / Requirements
		REV	Revision
		RF	Resilient Flooring
		RM	Room
		RND	Round
		RO	Rough Opening
		ROW	Right of Way

		S	
		S/A	Supply Air
		SC	Solid Core
		SCHED	Schedule
		SCN	Screen
		SCP	Specialty Ceiling Panel
		SD	Storm Drain
		SECT	Section
		SEW	Sewer
		SF	Square Feet/Foot
		SHT	Sheet
		SHTG	Sheathing
		SIM	Similar
		SM	Sheet Metal
		SPEC	Specification(s)
		SPK	Speaker
		SPKLR	Sprinkler
		SPL BLK	Splash Block
		SQ	Square
		SS	Solid Surface
		ST	Stain
		STAGD	Staggered
		STC	Sound Transmission Coefficient
		STD	Standard
		STGR	Stringer
		STL	Steel
		STN	Stone
		STOR	Storage
		STRUCT	Structure(al)
		STSTL	Stainless Steel
		SUBFL	Subfloor
		SUSP	Suspended
		SWP	Sanitary Wall Panel
		SYS	System
		T	
		T	Tread
		T&G	Tongue & Groove
		TAN	Tangent
		TBD	To Be Determined
		TBL	Table
		TBR	To Be Removed
		TC	Top of Curb
		TEL	Telephone
		TEMP	Tempered / Temporary
		TGL	Tempered Glass
		THK	Thick
		TL	Toilet Partition
		TO	Top Of
		TOF	Top Of Foundation
		TOW	Top Of Wall
		TP	Toilet Partition
		TRA	Trash Receptacle
		TRTD	Treated
		TS	Top of Steel
		TSL	Top of Slab
		TUS	To Undisturbed Soil
		TYP	Typical
		U	
		UNFIN	Unfinished
		UNO	Unless Noted Otherwise
		u	
		UNEX	Unexcavated
		V	
		VB	Vinyl Base/Vapor Barrier
		VENT	Ventilation
		VERT	Vertical
		VIF	Verify In Field
		VIN	Vinyl
		VNR	Veneer
		VR	Vapor Retarder
		W	
		W	Width/Wide / W Shape Steel Beam
		W/	With
		W/I	Within
		W/O	Without
		WC	Wall Covering/Water Closet
		WCT	Wainscot
		WD	Wood
		WDW	Window
		WH	Water Heater
		WIC	Walk-In-Closet
		WOL	Wolmanized
		WP	Water Proof(ing)
		WV	Wall Vent
		WWF	Welded Wire Fabric
		Y	
		YD	Yard

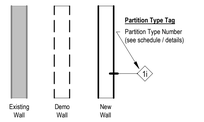
DRAWING CONVENTIONS

Room Tag

Keynote Tag

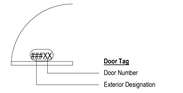
Keyed Note Tag

Wall Types



Door (Existing)

Door (New)

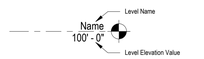


Window Tag

Furniture & Equipment Tag

Ceiling Tag

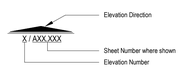
Elevation/Level Symbol



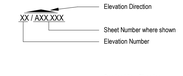
Spot Elevation Symbol

Column Line

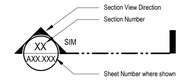
Exterior Elevation Tag



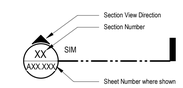
Interior Elevation Tag



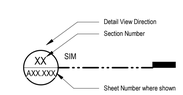
Building Section



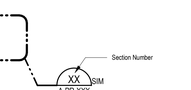
Wall Section



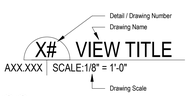
Detail Cut



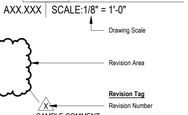
Detail/Plan Callout



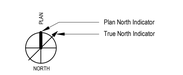
Drawing Title



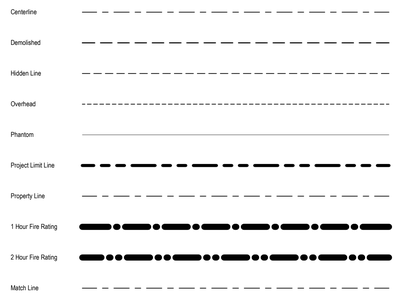
Revisions



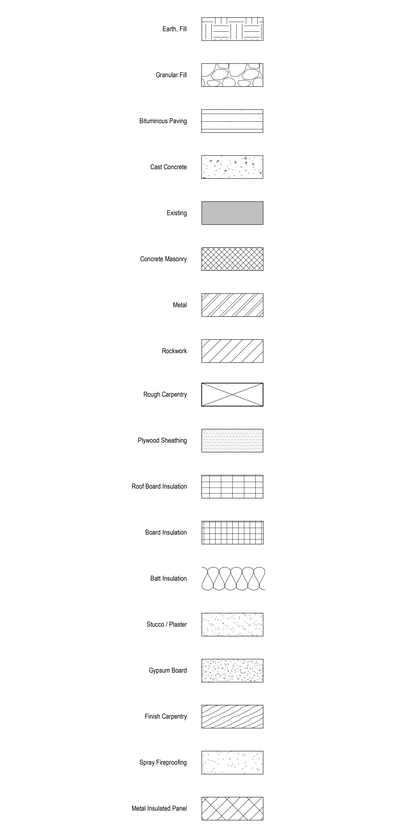
North Arrow



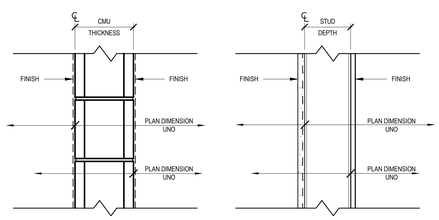
LINE TYPES



MATERIALS



DIMENSION CONVENTIONS



CMU

PLAN DIMENSION TO ONE FACE OF CMU. SEE PLAN.

METAL STUDS

PLAN DIMENSION TO ONE FACE OF STUD. SEE PLAN.

KEYNOTE LIST

010300B	OWNER FURNISHED & CONTRACTOR INSTALLED - AS NOTED
024119A	REMOVE - AS NOTED
024119B	REMOVE & TURN OVER TO OWNER
024119C	REMOVE & RELOCATE - AS NOTED
024119D	EXISTING TO REMAIN
057500B	DECORATIVE FORMED METAL FRAME
057500C	DECORATIVE FORMED METAL ACCESSORY - AS NOTED
061000A	DIMENSION LUMBER - SIZE NOTED
061000B	CONSTRUCTION PANEL SHEATHING-TYPE/SIZE NOTED
062000A	DIMENSION FINISH LUMBER - SIZE NOTED
062000B	STANDING / RUNNING TRIM - AS NOTED
062000C	FINISH VENEER CONSTRUCTION PANEL-BEAD BOARD
064000A	CASEWORK - TYPE NOTED
064000C	PLASTIC LAMINATE - TYPE AS NOTED
064000J	ARCHITECTURAL WOODWORK ACCESSORY - AS NOTED
065100B	STRUCT PLASTICS SHAPES & PLATES ACCESSORY - AS NOTED - REF STRUCT
066116B	SOLID SURFACE COUNTERTOP - TYPE NOTED
072100A	FIBERGLASS BATT INSULATION - THICKNESS NOTED
074646A	FIBER CEMENT SIDING - TYPE AS NOTED
074646B	TRIM
074646D	METAL FURRING
076100B	SHEET METAL ROOFING
076200C	FLASHING - AS NOTED
079200A	JOINT SEALANT
081110A	STEEL DOOR
081110B	STEEL FRAME
087100A	DOOR HARDWARE - AS NOTED
087100B	THRESHOLD - SET IN SEALANT
092116A	GYPSUM BOARD - 5/8 IN., U.N.O.
092116H	STEEL STUD - SIZE NOTED
093000F	QUARRY TILE
093000G	GROUT - TYPE AS NOTED
093000K	TRANSITION STRIP
095100A	ACOUSTICAL PANEL CEILING - AS SCHEDULED
096500B	RESILIENT WALL BASE - AS SCHEDULED
096700A	FLUID-APPLIED FLOORING
097200A	WALL COVERINGS - AS SCHEDULED
097720A	DECORATIVE FIBERGLASS REINFORCED PANEL
097720B	DECORATIVE FRP TRIM PER MFR
099000A	PAINT - AS SCHEDULED
101900A	EXHIBIT OR GRAPHIC - AS SCHEDULED
108400A	ROPE - MATERIAL & GAUGE AS NOTED
108400D	ROPE & NETTING ACCESSORY - AS NOTED
114000F	FOOD SERVICE EQUIPMENT - REF FS DRAWINGS
211000A	FIRE SPRINKLER - REF FIRE PROTECTION
233000B	DUCTWORK - REF MECHANICAL
233000C	DIFFUSERS - REF MECHANICAL
260000A	ELECTRICAL EQUIPMENT - REF ELECTRICAL
265000A	LIGHT FIXTURES - REF ELEC
265000B	MISCELLANEOUS LIGHTING ELEMENT - REF ELEC
274116A	AUDIO-VIDEO EQUIPMENT - REF A/V

PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
200 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318 WWW.PGAV.COM

LICENSED ARCHITECT
EDWARD J. JAENICKE JR.
C-34039
31 DEC 2023
Renewal Date
STATE OF CALIFORNIA

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REVISION SCHEDULE		
NO	DESCRIPTION	DATE

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

ABBREVIATIONS, DRAWING CONVENTIONS, & KEYNOTE LIST

DATE	12/09/2022
DR: MWJ	CK: EJP
PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER

A100

12/9/2022 1:10:34 PM

Autodesk Docs://64115-00 SWSD Shipwreck Cafe/64115-00_SWSD_Shipwreck_AR_R22.rvt

Keynote List

SEE GENERAL DWG INFO. SHEET FOR COMPLETE LIST

Key Value	Keynote Text
024119A	REMOVE - AS NOTED
024119B	REMOVE & TURN OVER TO OWNER
024119C	REMOVE & RELOCATE - AS NOTED
024119D	EXISTING TO REMAIN

DEMO LEGEND:

SEE PLAN ON A301 FOR NEW WALLS ADDED.
NO BEARING WALLS/SHEARWALLS ARE BEING REMOVED.

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED
- EQUIPMENT TO BE REMOVED
- THEMATIC ROCKWORK TO BE REMOVED
- AREA NOT IN SCOPE

DEMOLITION FLOOR PLANS GENERAL NOTES

1. PROTECT EXISTING EQUIPMENT TO REMAIN FROM DAMAGE DURING CONSTRUCTION.
2. DETACH CEILING MOUNTED EQUIPMENT TO REMAIN, TEMPORARILY SUPPORT, COVER AND PROTECT.
3. FOR EXISTING SURFACES TO REMAIN, REMOVE SCREWS, HANGERS, FASTENERS, ETC., PRIOR TO APPLICATION OF FINISH MATERIAL. PATCH SURFACES WHETHER OR NOT THE SURFACE IS TO RECEIVE FINISH.

A8 LEVEL 1 - DEMO PLAN

A201 | SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 32'

PLAN NORTH

PGAV DESTINATIONS
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220 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318
WWW.PGAV.COM

LICENSED ARCHITECT
EDWARD J. JAENTSCHKAMP
C-34039
31 DEC 2023
Renewal Date
STATE OF CALIFORNIA

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REVISION SCHEDULE		
NO	DESCRIPTION	DATE
1	ASI 001	02/10/2023
3	Revision 02	05/10/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

DEMO FLOOR PLAN

DATE	12/09/2022
DR: MWJ	CK: EJP
PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER

A201

Autodesk Docs://64115-00 SWSD Shipwreck Cafe/64115-00_SWSD_Shipwreck_AR_R22.rvt
5/10/2023 5:28:56 PM

E8 DEMO PHOTO - EXTERIOR POS STATIONS (LEFT)

A210 | SCALE: N.T.S.

E4 DEMO PHOTO - EXTERIOR POS STATIONS (RIGHT)

A210 | SCALE: N.T.S.

C8 DEMO PHOTO - INTERIOR EXIT

A210 | SCALE:1 : 6

C4 DEMO PHOTO - EXTERIOR ENTRANCE

A210 | SCALE:1 : 6

Keynote List

SEE GENERAL DWG INFO. SHEET FOR COMPLETE LIST

Key Value	Keynote Text
024119A	REMOVE - AS NOTED
024119B	REMOVE & TURN OVER TO OWNER
024119D	EXISTING TO REMAIN

PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
220 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318 WWW.PGAV.COM

LICENSED ARCHITECT
EDWARD J. PIESTELKAMP
C-34039
31 DEC 2023
Renewal Date
STATE OF CALIFORNIA

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AREA NOT IN SCOPE

DEMOLITION FLOOR PLANS GENERAL NOTES

1. PROTECT EXISTING EQUIPMENT TO REMAIN FROM DAMAGE DURING CONSTRUCTION.
2. DETACH CEILING MOUNTED EQUIPMENT TO REMAIN, TEMPORARILY SUPPORT, COVER AND PROTECT.
3. FOR EXISTING SURFACES TO REMAIN, REMOVE SCREWS, HANGERS, FASTENERS, ETC., PRIOR TO APPLICATION OF FINISH MATERIAL. PATCH SURFACES WHETHER OR NOT THE SURFACE IS TO RECEIVE FINISH.

REVISION SCHEDULE		
NO	DESCRIPTION	DATE

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

DEMO PHOTOS

DATE	12/09/2022
DR: MWJ	CK: EJP
PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER

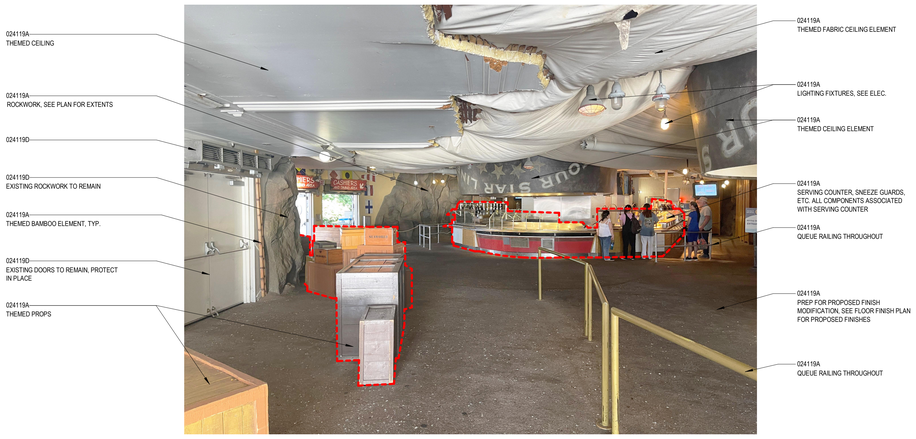
A210

12/9/2022 5:10:45 PM

Autodesk Docs://64115-00 SWSD Shipwreck Cafe/64115-00_SWSD_Shipwreck_AR_R22.rvt

E8 DEMO PHOTO - INTERIOR 01 (ENTRANCE)

A211 | SCALE: N.T.S.



E4 DEMO PHOTO - INTERIOR 02

A211 | SCALE: N.T.S.

C8 DEMO PHOTO - INTERIOR 05

A211 | SCALE: N.T.S.

C4 DEMO PHOTO - INTERIOR 03

A211 | SCALE: N.T.S.

A8 DEMO PHOTO - INTERIOR 04

A211 | SCALE: N.T.S.

A6 DEMO PHOTO - INTERIOR 06

A211 | SCALE: N.T.S.

A3 DEMO PHOTO - INTERIOR 07

A211 | SCALE: N.T.S.

AREA NOT IN SCOPE

DEMOLITION FLOOR PLANS GENERAL NOTES

1. PROTECT EXISTING EQUIPMENT TO REMAIN FROM DAMAGE DURING CONSTRUCTION.
2. DETACH CEILING MOUNTED EQUIPMENT TO REMAIN, TEMPORARILY SUPPORT, COVER AND PROTECT.
3. FOR EXISTING SURFACES TO REMAIN, REMOVE SCREWS, HANGERS, FASTENERS, ETC., PRIOR TO APPLICATION OF FINISH MATERIAL. PATCH SURFACES WHETHER OR NOT THE SURFACE IS TO RECEIVE FINISH.

Keynote List

SEE GENERAL DWG INFO. SHEET FOR COMPLETE LIST

Key Value	Keynote Text
024119A	REMOVE - AS NOTED
024119B	REMOVE & TURN OVER TO OWNER
024119C	REMOVE & RELOCATE - AS NOTED
024119D	EXISTING TO REMAIN

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SWSD SHIPWRECK CAFE

SAN DIEGO, CA

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DEMO PHOTOS

DATE	12/09/2022
DR	MWJ
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PGAV	64115-00
CLIENT	SEA

SHEET NUMBER

A211

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Keynote List

SEE GENERAL DWG INFO. SHEET FOR COMPLETE LIST

Key Value	Keynote Text
010300A	OWNER PROVIDED (FURNISHED & INSTALLED) - AS NOTED
010300B	OWNER FURNISHED & CONTRACTOR INSTALLED - AS NOTED
024119D	EXISTING TO REMAIN
062000A	DIMENSION FINISH LUMBER - SIZE NOTED
064000A	CASEWORK - TYPE NOTED
114000F	FOOD SERVICE EQUIPMENT - REF FS DRAWINGS
224000A	PLUMBING FIXTURE - REF PLUMBING
260000A	ELECTRICAL EQUIPMENT - REF ELECTRICAL

TOTAL AREA FOR THE PROPOSED INTERIOR TENANT IMPROVEMENT: 6,275 SF

AREA NOT IN SCOPE

FLOOR PLANS GENERAL NOTES

1. PROTECT EXISTING EQUIPMENT TO REMAIN FROM DAMAGE DURING CONSTRUCTION.
2. SEE SHEET G01.351 FOR ADA DIMENSION AND CLEARANCE DETAILS.
3. FOR EXISTING SURFACES TO REMAIN, REMOVE SCREWS, HANGERS, FASTENERS, ETC., PRIOR TO APPLICATION OF FINISH MATERIAL. PATCH SURFACES WHETHER OR NOT THE SURFACE IS TO RECEIVE FINISH.
4. INCLUDE ALL EXPOSED WALLS TO RECEIVE NEW PAINT FINISH. REFER TO ELEVATIONS.

A8 LEVEL 1 - FLOOR PLAN

A301 | SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 32'

PLAN NORTH

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EDWARD J. PIESTELKAMP
C-34039
31 DEC 2023
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REVISION SCHEDULE		
NO	DESCRIPTION	DATE
2	Revision 01	03/15/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

FLOOR PLAN

DATE	12/09/2022		
DR	MWJ	CK	EJP
PGAV	64115-00	CLIENT	SEA

SHEET NUMBER

A301

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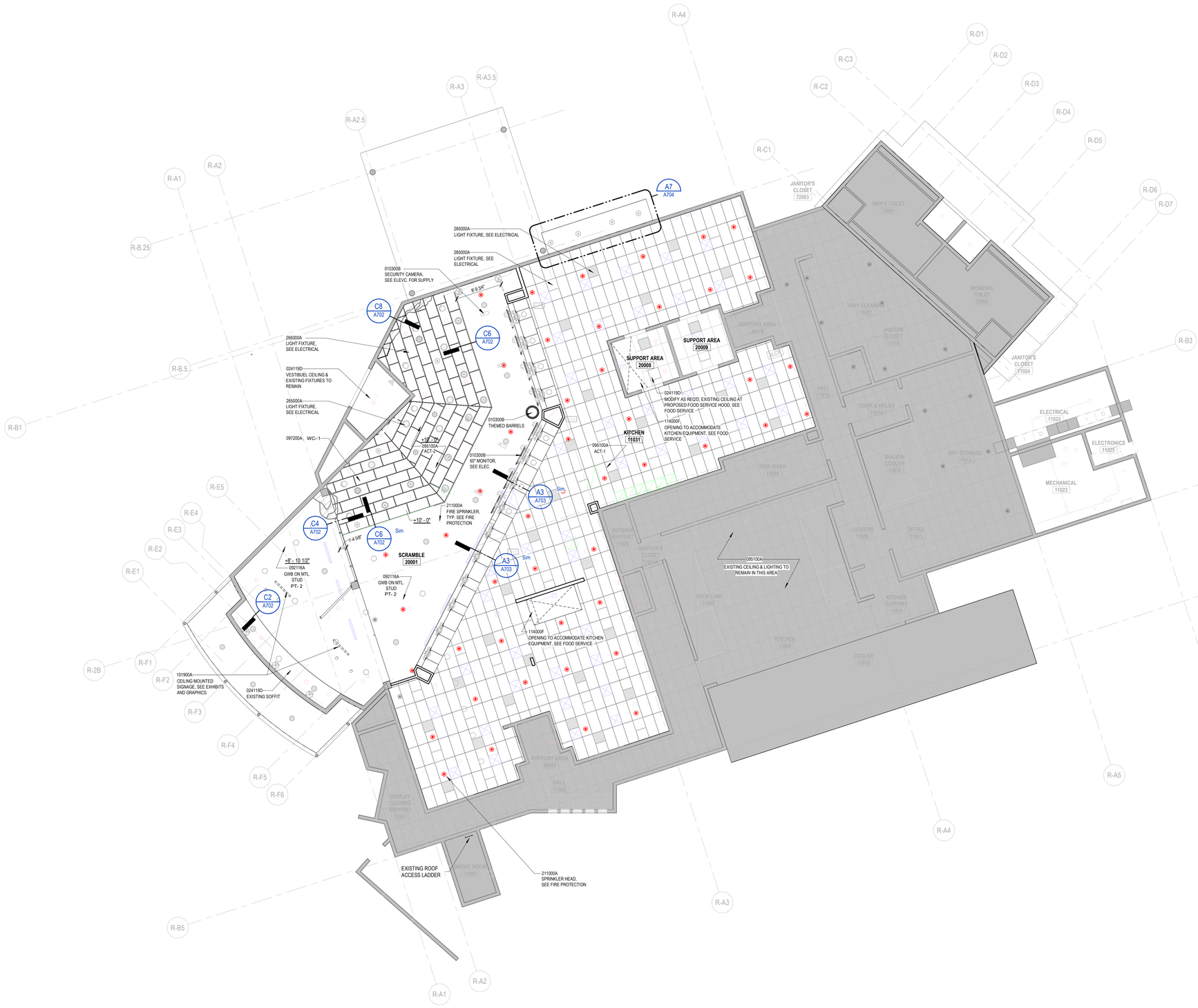
4/3/2023 6:55:58 PM

Keynote List

SEE GENERAL DWG INFO. SHEET FOR COMPLETE LIST

Key Value	Keynote Text
010300B	OWNER FURNISHED & CONTRACTOR INSTALLED - AS NOTED
024119D	EXISTING TO REMAIN
092116A	GYPSUM BOARD - 5/8 IN., U.N.O.
095100A	ACOUSTICAL PANEL CEILING - AS SCHEDULED
097200A	WALL COVERINGS - AS SCHEDULED
101900A	EXHIBIT OR GRAPHIC - AS SCHEDULED
114000F	FOOD SERVICE EQUIPMENT - REF FS DRAWINGS
211000A	FIRE SPRINKLER - REF FIRE PROTECTION
265000A	LIGHT FIXTURES - REF ELEC



A6 LEVEL 1 - CAFE RCP

A310 | SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 32'

NORTH

AREA NOT IN SCOPE

REFLECTED CEILING PLANS GENERAL NOTES

1. PROTECT EXISTING EQUIPMENT TO REMAIN FROM DAMAGE DURING CONSTRUCTION.
2. SEE MEP FOR EXISTING AND PROPOSED CONDITIONS REGARDING ELECTRICAL, MECHANICAL, AND PLUMBING CONTENT.
3. SEE FIRE PROTECTION FOR EXISTING AND PROPOSED CONDITIONS REGARDING FIRE PROTECTION WITHIN FACILITY.
4. COORDINATE FINAL SECURITY CAMERA LOCATIONS WITH OWNER. OWNER TO SUPPLY CAMERAS FOR CONTRACTOR INSTALL.
5. WHERE SIGNAGE AND THE "EGG" IS NOTED, REFER TO THE ADDITIONAL REFERENCE MATERIALS KNOWN AS THE EXHIBITS & GRAPHICS GUIDE PROVIDED IN ADDITION TO THE DRAWINGS.
6. ANY CONSTRUCTION LOADS TO BE DISTRIBUTED TO FACILITY STRUCTURE TO BE REVIEWED WITH STRUCTURAL EOR PRIOR TO INSTALLATION.
7. ALL WOOD, EXPOSED TO GUEST VIEW WITHIN INTERIOR CONDITIONS, TO BE HARDWOOD, PAINTED. PREP AND SAND OFF ALL LABELS PRIOR TO FINISH. SEE MATERIAL LEGEND.
8. ALL EXPOSED CONDUIT TO BE PAINTED TO MATCH ADJACENT COLOR.
9. SEE FOOR SERVICE PACKAGE FOR KITCHEN EQUIPMENT LAYOUT.
10. SEE MECHANICAL, ELECTRICAL, AND PLUMBING FOR ADDITIONAL INFORMATION AND DETAILS.

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EDWARD JOESTELKAMP
C-34039
31 DEC 2023
Renewal Date
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NO	DESCRIPTION	DATE
2	Revision 01	03/15/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

REFLECTED CEILING PLAN

DATE	12/09/2022
DR: ACR	CK: EJP
PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER

A310

4/3/2023 6:57:23 PM
Autodesk Docs://64115-00 SWSD Shipwreck Cafe/64115-00_SWSD_Shipwreck_AR_R22.rvt

Keynote List

SEE GENERAL DWG INFO. SHEET FOR COMPLETE LIST

Key Value	Keynote Text
024119D	EXISTING TO REMAIN
093000F	QUARRY TILE
096700A	FLUID-APPLIED FLOORING
097720A	DECORATIVE FIBERGLASS REINFORCED PANEL
097720B	DECORATIVE FRP TRIM PER MFR
321300B	STAMPED PATTERN CONCRETE FINISH (SEE SCHED) - REF CIVIL

PATCH CONCRETE UNDER REMOVED POS STATIONS, TYP.

PROVIDE NEW THRESHOLD AS REQ'D FOR NEW 096700A INSTALL

PROVIDE NEW THRESHOLD AS REQ'D FOR NEW 096700A INSTALL

PROVIDE NEW THRESHOLD AS REQ'D FOR NEW 096700A INSTALL

PROVIDE NEW THRESHOLD AS REQ'D FOR NEW 096700A INSTALL

321300B STAMPED CONCRETE INFILL WHERE REQ'D. OVERCUT TO PROVIDE MORE ORGANIC EDGE

024119D EXISTING STAMPED CONCRETE

097720A SANITARY WALL PANELS TO 8'-0" AT KITCHEN LOCATIONS, TYP.

097720B CORNER TRIM PER MFR, TYP.

RESTAURANT QUEUE 23001

SCRAMBLE 20001

ENTRY 10002

KITCHEN 11031

SUPPORT AREA 20008

SUPPORT AREA 20009

SUPPORT AREA 20005

JANITOR'S CLOSET 72003

MEN'S TOILET 72001

WOMEN'S TOILET 72002

TRAY CLEANING 11017

JANITOR CLOSET 11018

JANITOR'S CLOSET 11024

HALL 11015

COOK & HOLDS 11014

ELECTRICAL 11022

ELECTRONICS 11025

MECHANICAL 11023

WALK-IN COOLER 11012

DRY STORAGE 11013

DISH WASH 11006

LOCKERS 11009

OFFICE 11011

KITCHEN SUPPORT 11005

JANITOR'S CLOSET 11004A

COOK LINE 11007

KITCHEN SUPPORT 11010

KITCHEN 11008

COOLER 11018

HALL 11002

DISPLAY COOKING SUPPORT 11001

BROKE ROOM 11003

COOKING DISPLAY 10001

CONC-1

WALL TREATMENT

TL-1 / GR-1

R-A1 R-A2 R-A3 R-A3.5 R-A4 R-A5 R-A6 R-B1 R-B2B R-B3 R-B4 R-B5 R-B.25 R-B.5 R-C1 R-C2 R-C3 R-D1 R-D2 R-D3 R-D4 R-D5 R-D6 R-D7 R-E1 R-E2 R-E3 R-E4 R-F1 R-F2 R-F3 R-F4 R-F5 R-F6

LEGEND:

- 024119D AREA NOT IN SCOPE (EXISTING FINISHES TO REMAIN)
- 096700A CONC-1 W/ RB-1 BASE
- 093000F T-1 W/ COVE BASE
- 321300B STAMPED CONCRETE W/ RB-1 BASE
- WALL TREATMENT — THEMATIC REFRESH OF WALL FINISHES, TO RECIEVE PT-1 & THEMATIC WALL TREATMENT, SEE DESIGN INTENT ON D3/501 FOR TYPICAL AT SHOWN LOCATIONS

0' 4' 8' 16' 32'

PLAN NORTH

A6 LEVEL 1 - FLOOR PLAN - FINISH PLAN

A351 | SCALE: 1/8" = 1'-0"

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C-34039
31 DEC 2023
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REVISION SCHEDULE

NO	DESCRIPTION	DATE
2	Revision 01	02/10/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

FLOOR FINISH PLAN

DATE	12/09/2022
DR: ACR	CK: EJP
PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER

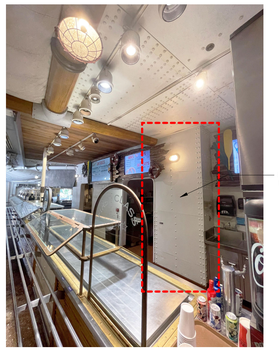
A351

4/10/2023 11:06:07 AM
Autodesk Docs://64115-00 SWSD Shipwreck Cafe/64115-00_SWSD_Shipwreck_AR_R22.rvt

Keynote List

SEE GENERAL DWG INFO. SHEET FOR COMPLETE LIST

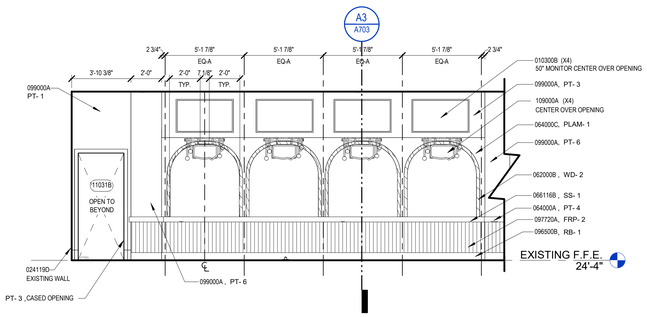
Key Value	Keynote Text
010300B	OWNER FURNISHED & CONTRACTOR INSTALLED - AS NOTED
024119D	EXISTING TO REMAIN
062000B	STANDING / RUNNING TRIM - AS NOTED
064000A	CASEWORK - TYPE NOTED
064000C	PLASTIC LAMINATE - TYPE AS NOTED
065100B	STRUCT PLASTICS SHAPES & PLATES ACCESSORY - AS NOTED - REF STRUCT
066116B	SOLID SURFACE COUNTERTOP - TYPE NOTED
096500B	RESILIENT WALL BASE - AS SCHEDULED
097720A	DECORATIVE FIBERGLASS REINFORCED PANEL
099000A	PAINT - AS SCHEDULED
101900A	EXHIBIT OR GRAPHIC - AS SCHEDULED
260000A	ELECTRICAL EQUIPMENT - REF ELECTRICAL

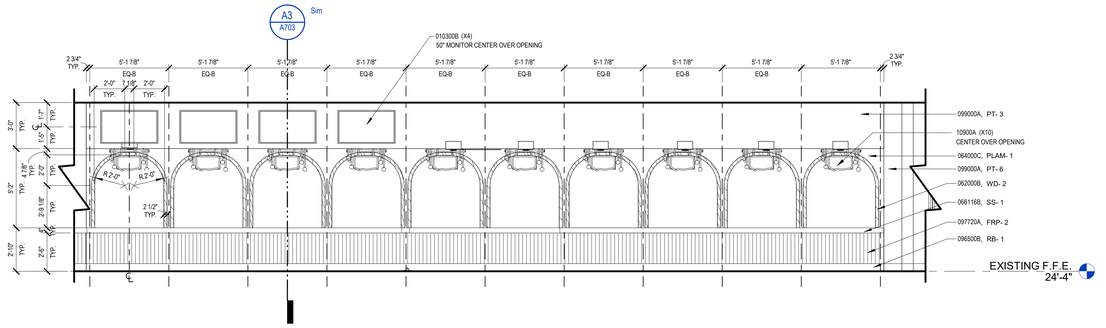


DESIGN INTENT:
PROVIDE ADHERED THEMATIC ELEMENT AT WALL TO
MATCH EXISTING DESIGN

E2 CAFE - EXISTING THEMATIC WALL DESIGN

A501 | SCALE: 1 1/2" = 1'-0"



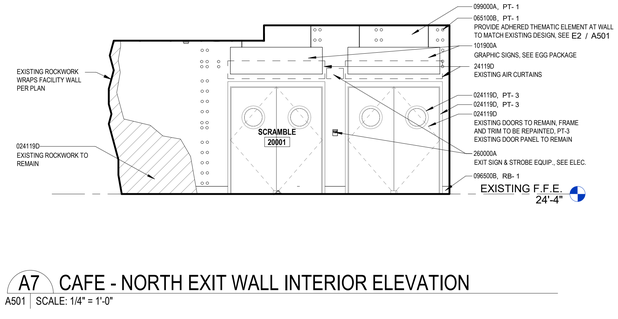


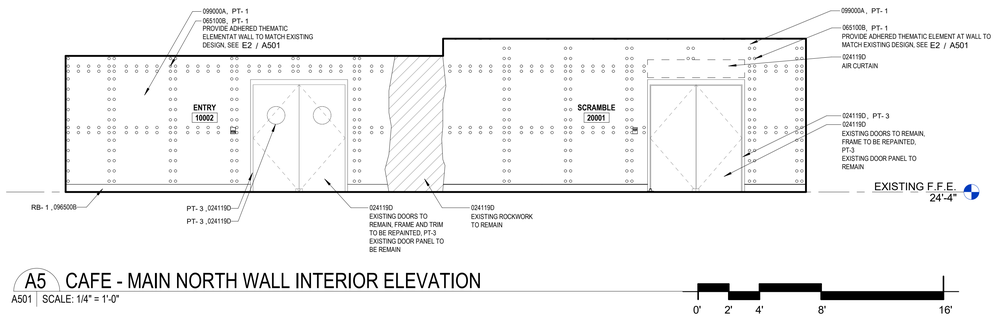
D8 CAFE - PICK UP COUNTER INTERIOR ELEVATION NORTH

A501 | SCALE: 1/4" = 1'-0"

D5 CAFE - PICK UP COUNTER INTERIOR ELEVATION CENTRAL

A501 | SCALE: 1/4" = 1'-0"





A7 CAFE - NORTH EXIT WALL INTERIOR ELEVATION

A501 | SCALE: 1/4" = 1'-0"

A5 CAFE - MAIN NORTH WALL INTERIOR ELEVATION

A501 | SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

ELEVATION GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS.
2. PROTECT EXISTING EQUIPMENT TO REMAIN FROM DAMAGE DURING CONSTRUCTION.
3. SEE SHEET A10.351 FOR ADA DIMENSION AND CLEARANCE DETAILS.
4. SEE SHEET A90.110 FOR MATERIAL LEGEND FINISHES SPECIFICATIONS, DOOR SCHEULDES, AND PARTITION TYPE INFORMATION.
5. ALL WOOD, EXPOSED TO GUEST VIEW, TO BE STAINED UNLESS OTHERWISE NOTED. PREP AND SAND OFF ALL LABELS PRIOR TO STAIN. SEE MATERIAL LEGEND.
6. ALL EXPOSED CONDUIT TO BE PAINTED TO MATCH ADJACENT COLOR.
7. SEE MECHANICAL, ELECTRICAL, AND PLUMBING FOR ADDITIONAL INFORMATION AND DETAILS.

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2	Revision 01	03/15/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

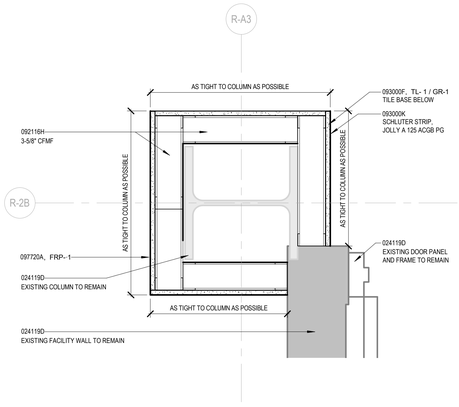
INTERIOR ELEVATIONS & INTERIOR THEMING

DATE	12/09/2022
DR: ACR	CK: EJP
PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER

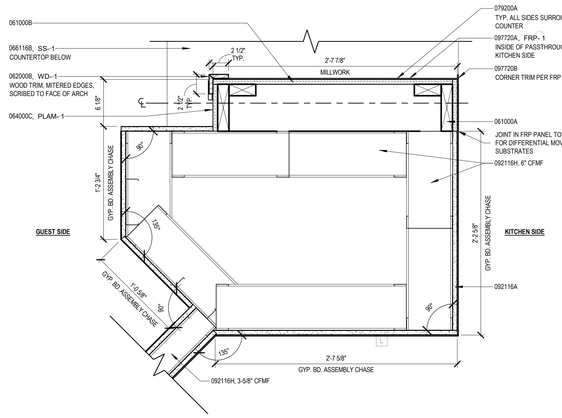
A501

4/3/2023 4:59:29 PM
Autodesk Docs://64115-00 SWSD Shipwreck Cafe/64115-00_SWSD_Shipwreck_AR_R22.rvt



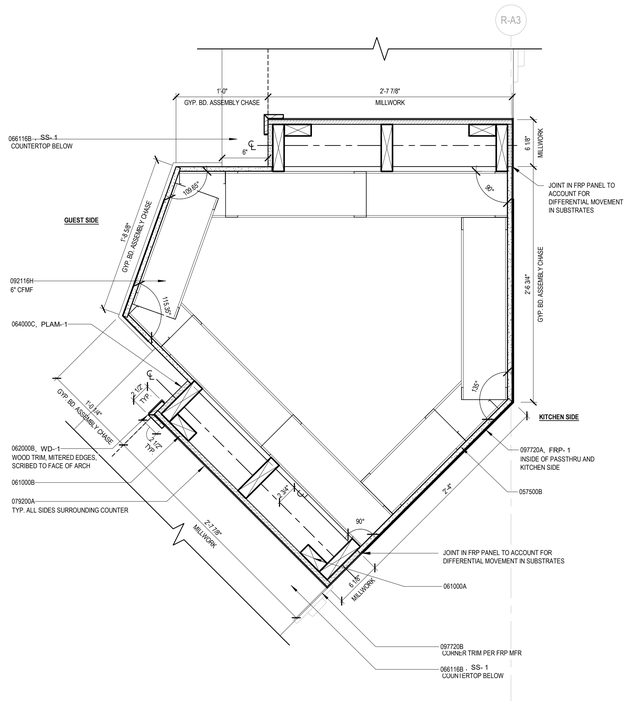
E5 EXISTING COLUMN BOX-OUT - PLAN DETAIL

A701 | SCALE: 1 1/2" = 1'-0"



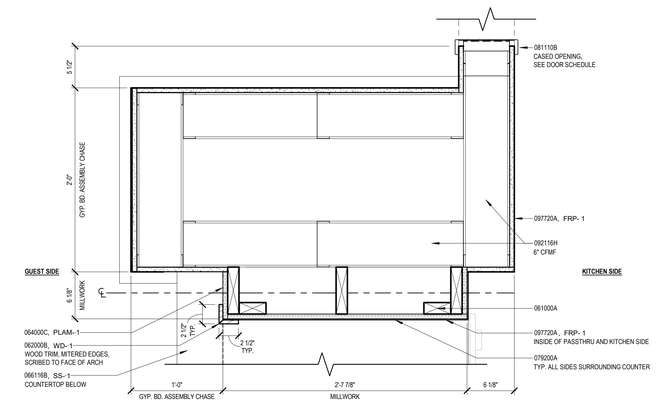
E3 LEVEL 1 - FLOOR PLAN - Callout 1

A701 | SCALE: 1 1/2" = 1'-0"



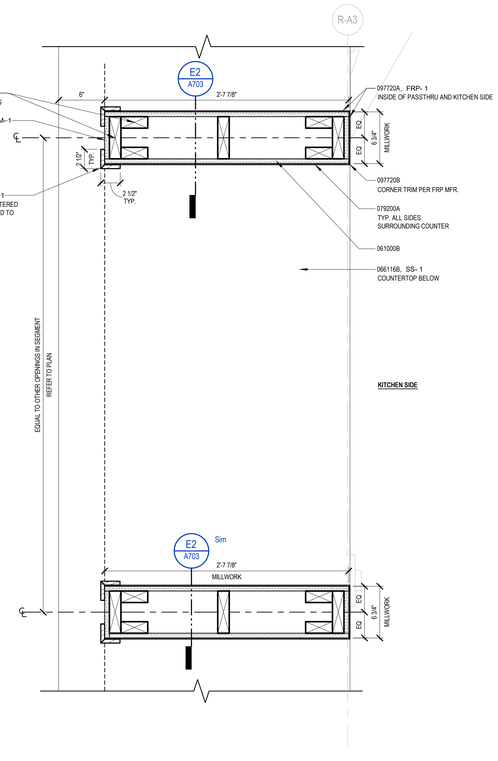
B4 PLAN DETAIL - 2

A701 | SCALE: 1 1/2" = 1'-0"



A4 PLAN DETAIL - 1

A701 | SCALE: 1 1/2" = 1'-0"



A3 COUNTER ARCHWAY PLAN DETAIL, TYP.

A701 | SCALE: 1 1/2" = 1'-0"

ELEVATION GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS.
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3. SEE SHEET A10.351 FOR ADA DIMENSION AND CLEARANCE DETAILS.
4. SEE SHEET A00.110 FOR MATERIAL LEGEND FINISHES SPECIFICATIONS, DOOR SCHEULDES, AND PARTITION TYPE INFORMATION.
5. ALL WOOD, EXPOSED TO GUEST VIEW, TO BE STAINED UNLESS OTHERWISE NOTED. PREP AND SAND OFF ALL LABELS PRIOR TO STAIN. SEE MATERIAL LEGEND.
6. ALL EXPOSED CONDUIT TO BE PAINTED TO MATCH ADJACENT COLOR.
7. SEE MECHANICAL, ELECTRICAL, AND PLUMBING FOR ADDITIONAL INFORMATION AND DETAILS.

Keynote List

SEE GENERAL DWG INFO. SHEET FOR COMPLETE LIST

Key Value	Keynote Text
024119D	EXISTING TO REMAIN
057500B	DECORATIVE FORMED METAL FRAME
061000A	DIMENSION LUMBER - SIZE NOTED
061000B	CONSTRUCTION PANEL SHEATHING TYPE/SIZE NOTED
062000B	STANDING / RUNNING TRIM - AS NOTED
064000C	PLASTIC LAMINATE - TYPE AS NOTED
066116B	SOLID SURFACE COUNTERTOP - TYPE NOTED
079200A	JOINT SEALANT
081110B	STEEL FRAME
092116A	GYPSUM BOARD - 5/8 IN., U.N.O.
092116H	STEEL STUD - SIZE NOTED
093000F	QUARRY TILE
093000K	TRANSITION STRIP
097720A	DECORATIVE FIBERGLASS REINFORCED PANEL
097720B	DECORATIVE FRP TRIM PER MFR

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LICENSED ARCHITECT
EDWARD J. BIENTELKAMP
C-34039
31 DEC 2023
Renewal Date
STATE OF CALIFORNIA

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REVISION SCHEDULE		
NO	DESCRIPTION	DATE
2	Revision 01	05/15/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

DETAILS

DATE	12/09/2022
DR: ACR	CK: EJP
PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER

A701

Autodesk Docs://64115-00 SWSD Shipwreck Cafe/64115-00_SWSD_Shipwreck_AR_R22.rvt
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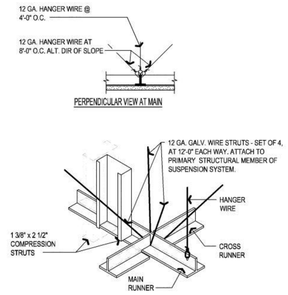

COMPRESSION STRUTS MUST BE PLACED WITHIN TWO INCHES OF THE FOUR SPLAY WIRES.

FOR STRUTS UP TO 4'-0" IN LENGTH, A MINIMUM 25 GAUGE METAL STUD WITH 7/8" FLANGES MAY BE USED.

FOR STRUTS UP TO 8'-0" IN LENGTH, A MINIMUM 25 GUAGE METAL STUD WITH 1 5/8" FLANGES AND 1/2" LIPS MAY BE USED.

FOR STUDS UP TO 15'-0" IN LENGTH, 2 STUDS OF A MINIMUM 25 GUAGE METAL WITH 2 1/2" FLANGES AND 1/2" LIPS IN THE FORM OF A TEE MAY BE USED. SEE STRUCTURAL CALCULATIONS.

FASTEN STUDS TO STRUCTURE WITH THREE #12 SCREWS. (HILTI-SELF DRILLING) FOUR NO. 9 GUAGE WIRES MUST BE SECURED TO THE MAIN RUNNER WITHIN 2 INCHES OF THE CROSS RUNNER INTERSECTION AND SPLAYED 90 DEGREES FROM THE PLANE OF THE CEILING. A STRUT FASTENED TO THE MAIN RUNNER SHALL BE EXTENDED TO AND FASTENED TO THE STRUCTURAL MEMBERS SUPPORTING THE ROOF AT THE FLOOR ABOVE. THE STRUT SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES. THESE HORIZONTAL RESTRAINT POINTS SHALL BE PLACED 12 FEET FROM EACH WALL. ATTACHMENT OF THE RESTRAINT WIRES IN THE STRUCTURE ABOVE SHALL BE ADEQUATE FOR THE LOAD IMPOSED.

PERIMETER WIRES SHALL ALSO BE PROVIDED 8" OUT FROM ALL WALLS OR CEILING DISCONTINUITY.

LATERAL FORCE BRACING MEMBERS SHALL BE SPACED A MINIMUM OF 6 INCHES FROM ALL HORIZONTAL PIPING OR DUCT WORK THAT IS NOT PROVIDED WITH BRACING RESTRAINTS FOR HORIZONTAL FORCES. BRACING WIRES SHALL BE ATTACHED TO THE GRID AND TO THE STRUCTURE IN SUCH A MANNER THAT THEY CAN SUPPORT A DESIGN LOAD OF NOT LESS THAN 200 POUNDS OR THE ACTUAL LOAD, WHICHEVER IS GREATER, WITH A SAFETY FACTOR OF TWO.

* NOT EXCEEDING:
1. 8' = ONE 3 5/8" 25 GA METAL STUD
2. 10' = TWO 1 5/8" 25 GA METAL STUD ORIENTED PERPENDICULAR & CONNECTED EVERY 12" ALONG THEIR LENGTH
3. 15' = TWO 2 1/2" 25 GA METAL STUDS, ORIENTED & CONNECTED PER ITEM 2
4. 20' = TWO 3 5/8" METAL STUDS, ORIENTED & CONNECTED PER ITEM 2

D2 SUSPENDED CEILING - SECONDARY RESTRAINTS (SEISMIC RATED)
A702 | SCALE: N.T.S

Keynote List
SEE GENERAL DWG INFO. SHEET FOR COMPLETE LIST

Key Value	Keynote Text
024119D	EXISTING TO REMAIN
057500B	DECORATIVE FORMED METAL FRAME
079200A	JOINT SEALANT
081110A	STEEL DOOR
081110B	STEEL FRAME
087100A	DOOR HARDWARE - AS NOTED
087100B	THRESHOLD - SET IN SEALANT
092116A	GYPSUM BOARD - 5/8 IN., U.N.O.
092116H	STEEL STUD - SIZE NOTED
095100A	ACOUSTICAL PANEL CEILING - AS SCHEDULED
096700A	FLUID-APPLIED FLOORING
099000A	PAINT - AS SCHEDULED
233000B	DUCTWORK - REF MECHANICAL
233000C	DIFFUSERS - REF MECHANICAL

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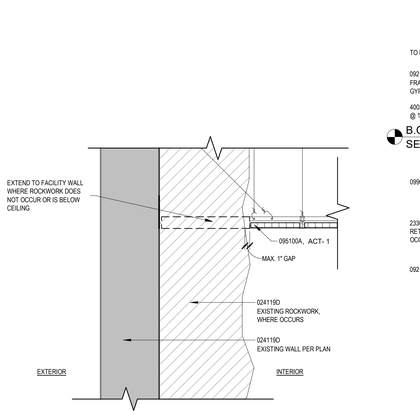
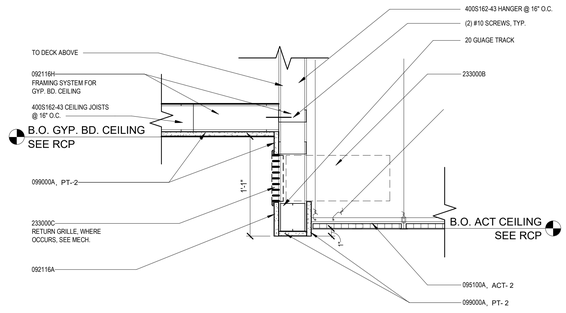
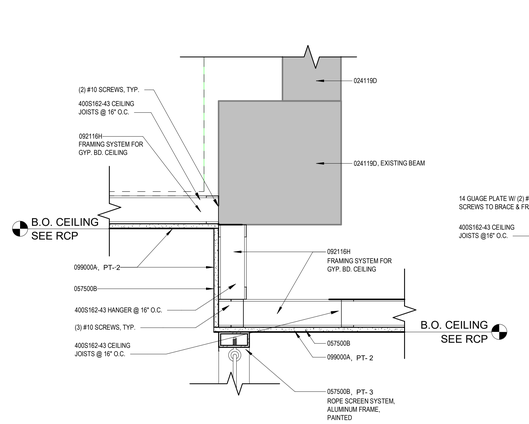


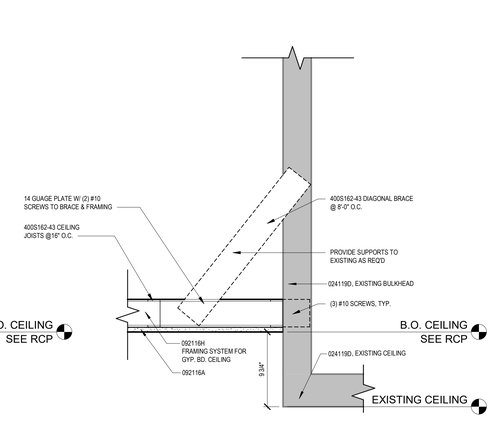
C8 CEILING TRANSITION - ACT-1 @ EXISTING ROCKWORK
A702 | SCALE: 1 1/2" = 1'-0"



C6 CEILING TRANSITION - ACT-1 TO GYP. BD.
A702 | SCALE: 1 1/2" = 1'-0"



C4 CEILING TRANSITION - GYP. BD. TO GYP.BD.
A702 | SCALE: 1 1/2" = 1'-0"



C2 CEILING TRANSITION - GYP. BD. @ EXISTING
A702 | SCALE: 1 1/2" = 1'-0"

CEILING GENERAL NOTES

1. REFER TO [ASCE 7-16, 13.5.6.2.2(a)] FOR SUSPENDED CEILING REQUIREMENTS
2. SEE SPECIFICATIONS FOR HEAVY DUTY SUSPENDED T-BAR GRID SYSTEM.
3. SEE SPECIFICATIONS FOR SUSPENDED CEILING PERIMETER CLOSURE, MINIMUM 2" WIDTH FOR PERIMETER CLOSURE ANGLES OR CHANNELS, UNLESS QUALIFIED PERIMETER SUPPORTING CLIPS ARE USED. PROVIDE POSITIVE ATTACHMENT OF THE CLOSURE ANGLES/CHANNELS TO THE STUD WALLS OR SUPPORTING STRUCTURE.
4. MINIMUM 2 SCREWS PER CLIP AROUND ENTIRE CEILING PERIMETER, TYPICAL AT ALL SUPPORTING CLOSURE ANGLES OR CHANNELS.
5. ONE END OF THE CEILING GRID ATTACHED TO THE CLOSURE ANGLES, CHANNELS OR PERIMETER SUPPORTING CLIPS IN EACH ORTHOGONAL HORIZONTAL DIRECTION. CEILING GRID IN EACH HORIZONTAL DIRECTION SHALL HAVE A MINIMUM ¾-INCH CLEARANCE FROM THE WALL AND SHALL REST UPON AND BE FREE TO SLIDE ON A CLOSURE ANGLE, CHANNEL OR PERIMETER SUPPORTING CLIP.
6. EXCEPT WHERE RIGID BRACES ARE USED TO LIMIT LATERAL DEFLECTION, SPRINKLER HEADS AND OTHER PENETRATIONS THROUGH THE CEILING TILE REQUIRE MINIMUM 2-INCH RINGS, SLEEVES OR ADAPTERS THAT WILL ALLOW A MINIMUM 1-INCH CEILING MOVEMENT IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, A SWING JOINT CAN BE PROVIDED AT THE TOP OF THE SPRINKLER HEAD EXTENSION TO ACCOMMODATE THE 1-INCH MOVEMENT. [ASCE 7-16, 13.5.6.3]

REVISION SCHEDULE		
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2	Revision 01	03/10/2023
3	Revision 02	05/10/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

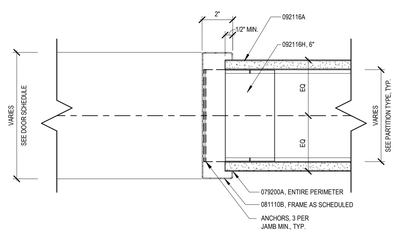
ISSUE FOR BID / ISSUE FOR PERMIT

DETAILS

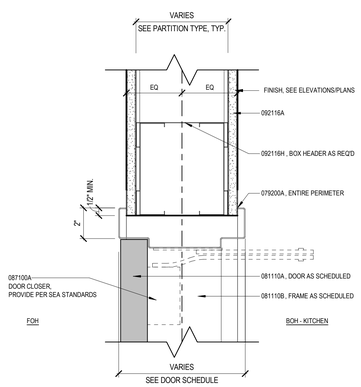
DATE	12/09/2022
DR: MWJ	CK: EJP
PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER
A702

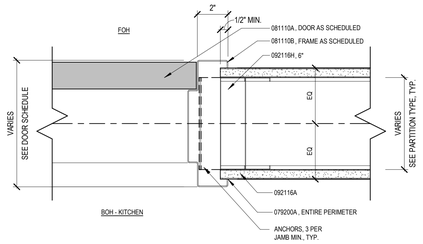
DOOR DETAILS



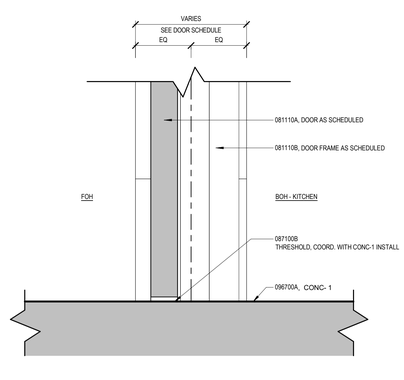
A8 TYPE 2
A702 | SCALE: 3" = 1'-0"



A6 TYPE 1 HEAD DETAIL
A702 | SCALE: 3" = 1'-0"



A4 TYPE 1 JAMB DETAIL
A702 | SCALE: 3" = 1'-0"



A2 TYPE 1 SILL DETAIL
A702 | SCALE: 3" = 1'-0"

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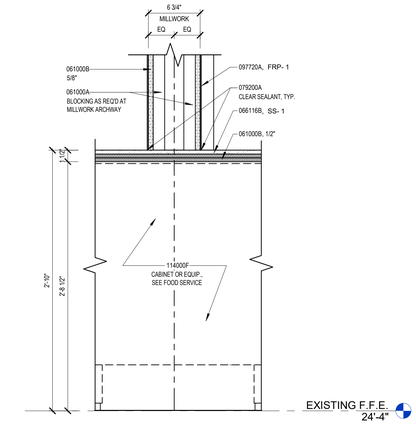
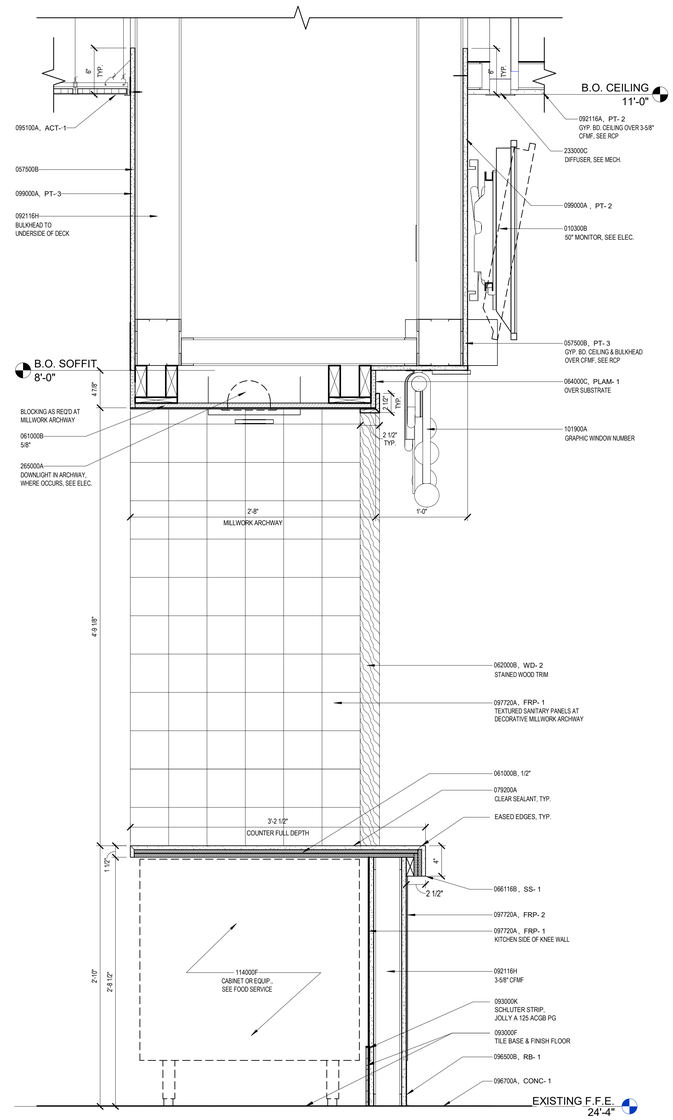


E2 DETAIL SECTION - CAFE PICK-UP BASE

A703 | SCALE: 1 1/2" = 1'-0"



A3 DETAIL SECTION - CAFE PICK-UP COUNTER WINDOW

A703 | SCALE: 1 1/2" = 1'-0"

Keynote List

SEE GENERAL DWG INFO. SHEET FOR COMPLETE LIST

Key Value	Keynote Text
010300B	OWNER FURNISHED & CONTRACTOR INSTALLED - AS NOTED
057500B	DECORATIVE FORMED METAL FRAME
061000A	DIMENSION LUMBER - SIZE NOTED
061000B	CONSTRUCTION PANEL SHEATHING TYPE/SIZE NOTED
062000B	STANDING / RUNNING TRIM - AS NOTED
064000C	PLASTIC LAMINATE - TYPE AS NOTED
066116B	SOLID SURFACE COUNTERTOP - TYPE NOTED
079200A	JOINT SEALANT
092116A	GYPSUM BOARD - 5/8 IN., U.N.O.
092116H	STEEL STUD - SIZE NOTED
095100A	ACOUSTICAL PANEL CEILING - AS SCHEDULED
096700A	FLUID-APPLIED FLOORING
097720A	DECORATIVE FIBERGLASS REINFORCED PANEL
099000A	PAINT - AS SCHEDULED
101900A	EXHIBIT OR GRAPHIC - AS SCHEDULED
114000F	FOOD SERVICE EQUIPMENT - REF FS DRAWINGS
233000C	DIFFUSERS - REF MECHANICAL
265000A	LIGHT FIXTURES - REF ELEC

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SAN DIEGO, CA

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SHEET NUMBER

A703

Autodesk Docs://64115-00 SWSD Shipwreck Cafe/64115-00_SWSD_Shipwreck_AR_R22.rvt
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DESIGN CRITERIA

2019 California Building Code:
Risk Category II
Snow: Pg = 0psf
Wind: V = 82 MPH Ultimate (63.5 mph Nominal)
I = 1.0
Wind Exposure: C

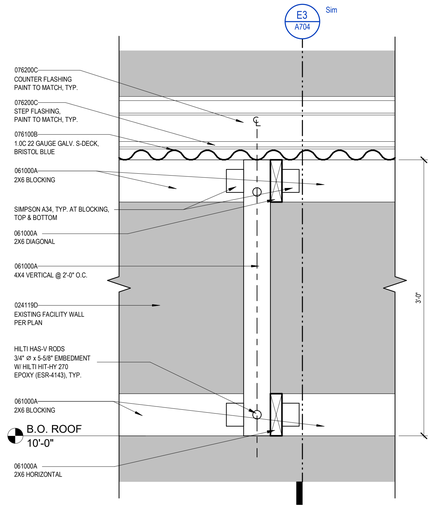
Seismic: I = 1.0
Ss = 1.361
S1 = 0.47
Sds = 1.089
Seismic Design Category: D

Roof Live Load: 20psf
Canopy Dead Load: 15psf

NOTES:

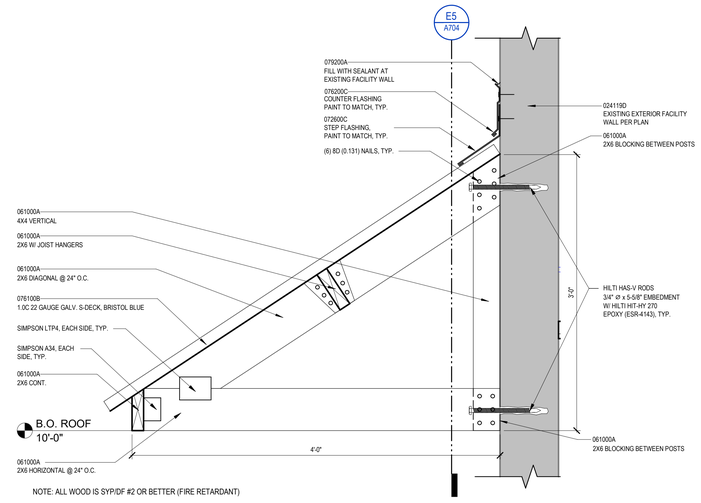
1. NOTICE TO THE APPLICANT/OWNER/ OWNER'S AGENT/ARCHITECT or ENGINEER OF RECORD: By using this permitted construction drawings for construction/installation of the work specified herein, you agree to comply with the requirements of City of San Diego for special inspections, structural observations, construction material testing and off-site fabrication of building components, contained in the statement of special inspections and, as required by the California construction codes.
2. NOTICE TO THE CONTRACTOR/BUILDER/INSTALLER/SUB-CONTRACTOR/OWNER-BUILDER: By using this permitted construction drawings for construction/installation of the work specified herein, you acknowledge and are aware of, the requirements contained in the statement of special inspections. You agree to comply with the requirements of City of San Diego for special inspections, structural observations, construction material testing and off-site fabrication of building components, contained in the statement of special inspections and, as required by the California construction codes.
3. THE SPECIAL INSPECTOR MUST BE REGISTERED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES, IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION.
4.THE SPECIAL INSPECTIONS IDENTIFIED ON PLANS ARE, IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY A CITY'S BUILDING INSPECTOR.

SPECIAL INSPECTIONS REQUIRED:
1. INSTALLATION OF EPOXY ANCHORS: CONTINUOUS.
2. INSTALLATION OF WOOD FRAMING: INCLUDING INSPECTING WOOD CONNECTIONS INCLUDING NAILING, BOLTING, ANCHOR BOLTS, TIE DOWNS, BEAM HANGERS, AND FRAMING ANCHORS: CONTINUOUS.



ROOF STRUCTURE DETAIL @ EXISTING WALL

E5 / A704 | SCALE: 1 1/2" = 1'-0"



NOTE: ALL WOOD IS SYP/DF #2 OR BETTER (FIRE RETARDANT)

ROOF STRUCTURE DETAIL

E3 / A704 | SCALE: 1 1/2" = 1'-0"

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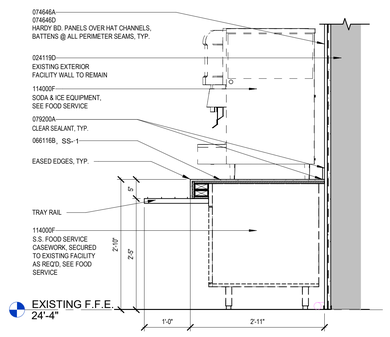
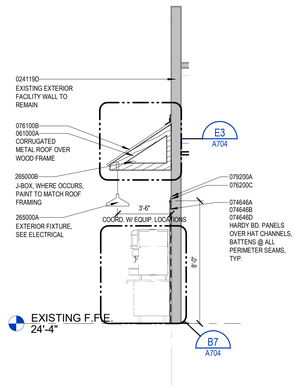
061000A	DIMENSION LUMBER - SIZE NOTED
066116B	SOLID SURFACE COUNTERTOP - TYPE NOTED
074646A	FIBER CEMENT SIDING - TYPE AS NOTED
074646B	TRIM
074646D	METAL FURRING
076100B	SHEET METAL ROOFING
076200C	FLASHING - AS NOTED
079200A	JOINT SEALANT
114000F	FOOD SERVICE EQUIPMENT - REF FS DRAWINGS
265000A	LIGHT FIXTURES - REF ELEC
265000B	MISCELLANEOUS LIGHTING ELEMENT - REF ELEC



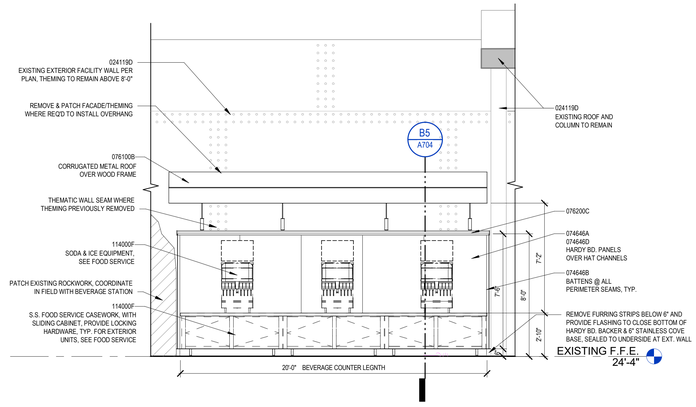
DETAIL SECTION - BEVERAGE STATION COUNTER

B7 / A704 | SCALE: 3/4" = 1'-0"



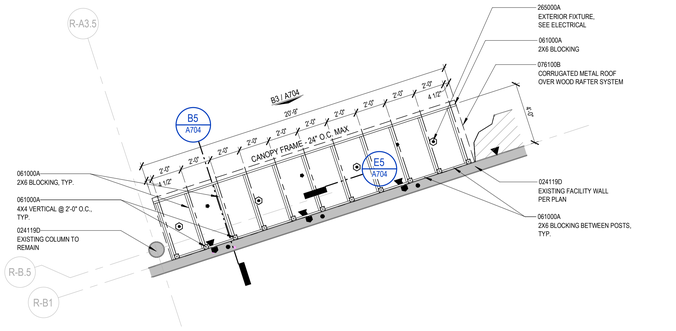
SECTION - BEVERAGE STATION

B5 / A704 | SCALE: 1/4" = 1'-0"



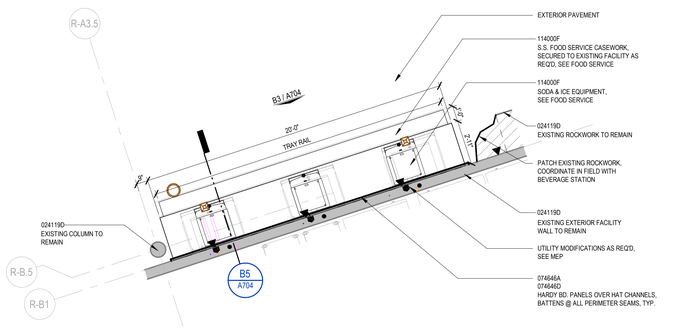
BEVERAGE STATION NORTH ELEVATION

B3 / A704 | SCALE: 1/4" = 1'-0"



ENLARGED ROOF PLAN - BEVERAGE STATION

A7 / A704 | SCALE: 1/4" = 1'-0"



ENLARGED PLAN - BEVERAGE STATION

A3 / A704 | SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

PLAN NORTH

ELEVATION GENERAL NOTES

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4. SEE SHEET A00.110 FOR MATERIAL LEGEND FINISHES SPECIFICATIONS, DOOR SCHEULDES, AND PARTITION TYPE INFORMATION.
5. ALL WOOD, EXPOSED TO GUEST VIEW, TO BE STAINED UNLESS OTHERWISE NOTED. PREP AND SAND OFF ALL LABELS PRIOR TO STAIN. SEE MATERIAL LEGEND.
6. ALL EXPOSED CONDUIT TO BE PAINTED TO MATCH ADJACENT COLOR.
7. SEE MECHANICAL, ELECTRICAL, AND PLUMBING FOR ADDITIONAL INFORMATION AND DETAILS.

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(314) 231-7318 WWW.PGAV.COM

LICENSED ARCHITECT
EDWARD J. JENTELKAMP
C-34039
31 DEC 2023
Renewal Date
STATE OF CALIFORNIA

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REVISION SCHEDULE

NO	DESCRIPTION	DATE
2	Revision 01	02/15/2023
3	Revision 02	05/19/2023
4	Revision 03	06/09/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

DETAILS

DATE	12/09/2022
DR	MWJ
CK	EJP
PGAV	64115-00
CLIENT	SEA

SHEET NUMBER

A704

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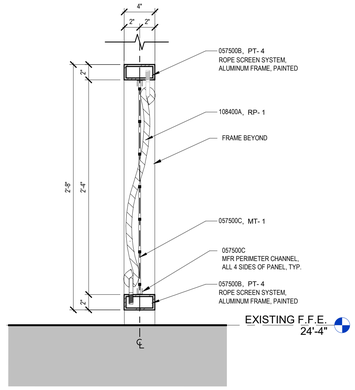
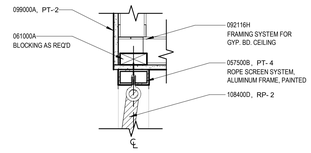


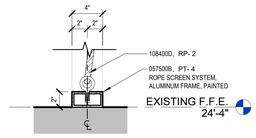
D3 ROPE SCREEN - PARTIAL ELEVATION

A705 | SCALE: 1 1/2" = 1'-0"



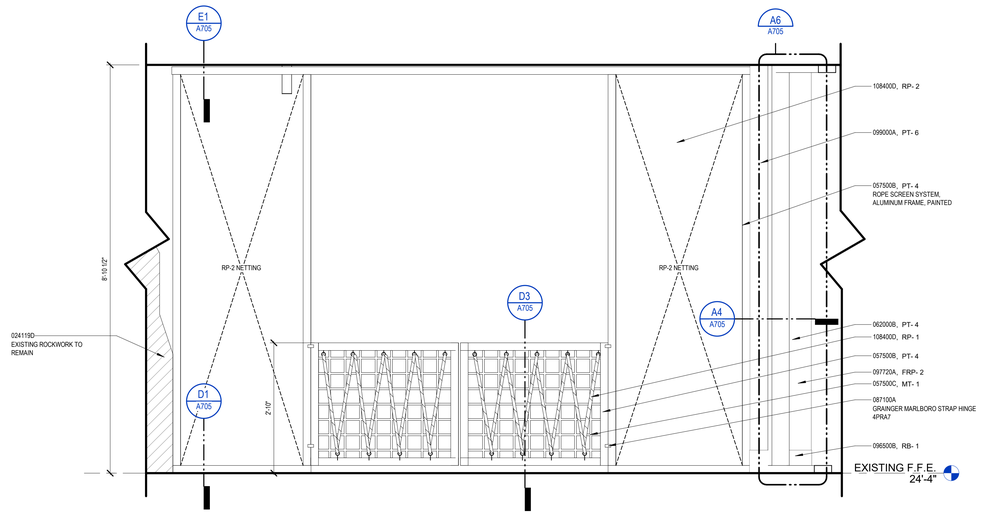
E1 ROPE SCREEN MILLWORK - FRAME @ CEILING

A705 | SCALE: 1 1/2" = 1'-0"



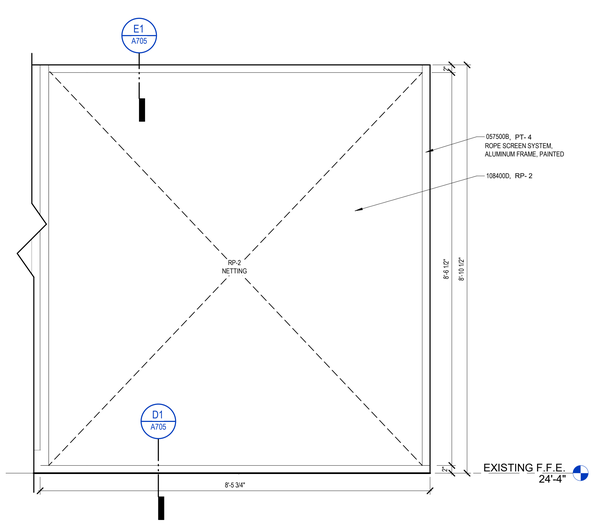
D1 ROPE SCREEN - FRAME @ BASE

A705 | SCALE: 1 1/2" = 1'-0"



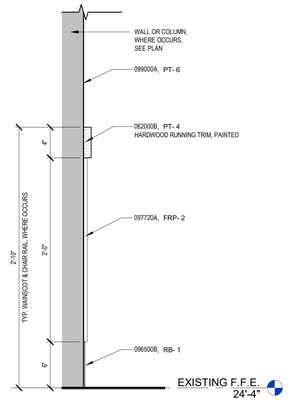
B6 DETAIL ELEVATION - ENTRY GATE & SCREEN

A705 | SCALE: 3/4" = 1'-0"



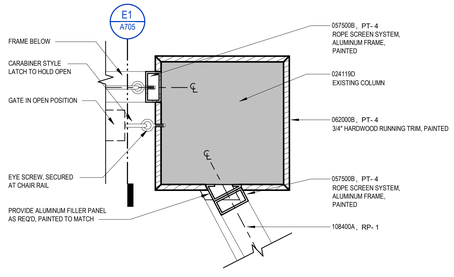
B2 DETAIL ELEVATION - ENTRY SCREEN

A705 | SCALE: 3/4" = 1'-0"



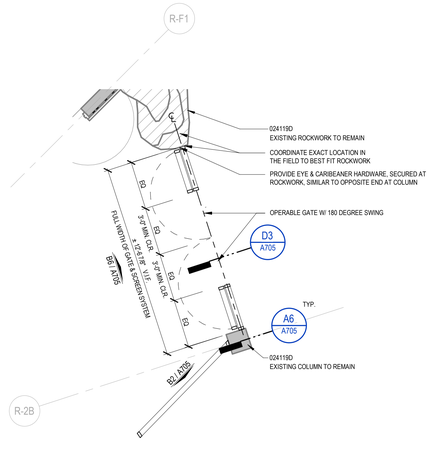
COLUMN WRAP WAINSCOT DETAIL, TYP.

A6 | A705 | SCALE: 1 1/2" = 1'-0"



ROPE SCREEN - PLAN DETAIL @ COLUMN

A4 | A705 | SCALE: 1 1/2" = 1'-0"



A2 ROPE SCREEN - ENLARGED PLAN

A705 | SCALE: 1/4" = 1'-0"

Keynote List

SEE GENERAL DWG INFO. SHEET FOR COMPLETE LIST

Key Value	Keynote Text
024119D	EXISTING TO REMAIN
057500B	DECORATIVE FORMED METAL FRAME
057500C	DECORATIVE FORMED METAL ACCESSORY - AS NOTED
061000A	DIMENSION LUMBER - SIZE NOTED
062000B	STANDING / RUNNING TRIM - AS NOTED
087100A	DOOR HARDWARE - AS NOTED
092116H	STEEL STUD - SIZE NOTED
096500B	RESILIENT WALL BASE - AS SCHEDULED
097720A	DECORATIVE FIBERGLASS REINFORCED PANEL
099000A	PAINT - AS SCHEDULED
108400A	ROPE - MATERIAL & GAUGE AS NOTED
108400D	ROPE & NETTING ACCESSORY - AS NOTED

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REVISION SCHEDULE

NO	DESCRIPTION	DATE

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

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DETAILS

DATE	12/09/2022
DR: ACR	CK: EJP
PGAV	CLIENT: SEA
64115-00	

SHEET NUMBER

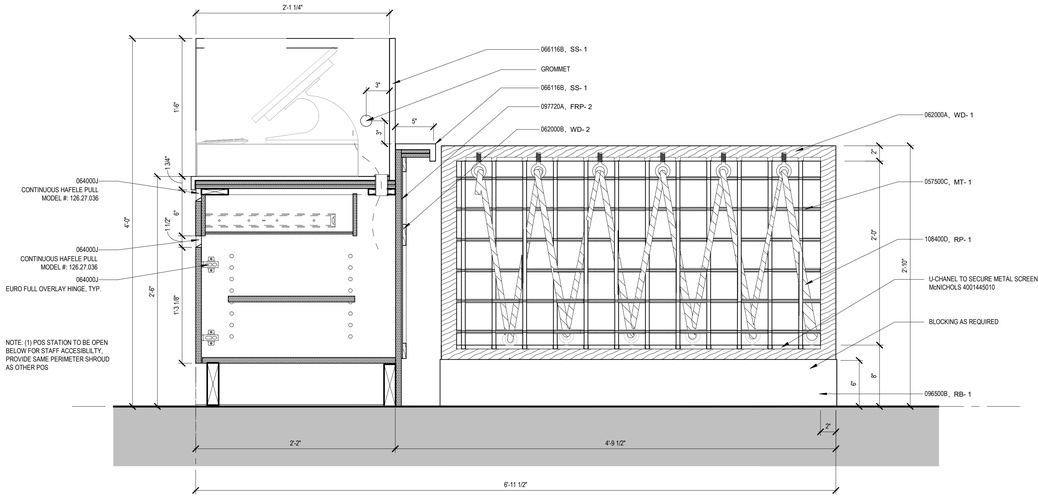
A705

Autodesk Docs://64115-00 SWSD Shipwreck Cafe/64115-00_SWSD_Shipwreck_AR_R22.rvt
12/9/2022 5:34:47 PM

Keynote List

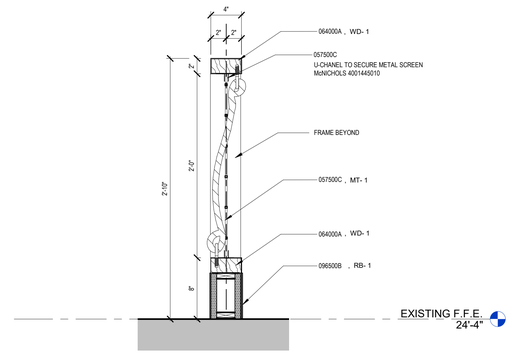
SEE GENERAL DWG INFO. SHEET FOR COMPLETE LIST

Key Value	Keynote Text
010300B	OWNER FURNISHED & CONTRACTOR INSTALLED - AS NOTED
057500C	DECORATIVE FORMED METAL ACCESSORY - AS NOTED
062000A	DIMENSION FINISH LUMBER - SIZE NOTED
062000B	STANDING / RUNNING TRIM - AS NOTED
064000A	CASEWORK - TYPE NOTED
064000J	ARCHITECTURAL WOODWORK ACCESSORY - AS NOTED
066116B	SOLID SURFACE COUNTERTOP - TYPE NOTED
096500B	RESILIENT WALL BASE - AS SCHEDULED
097720A	DECORATIVE FIBERGLASS REINFORCED PANEL
108400D	ROPE & NETTING ACCESSORY - AS NOTED



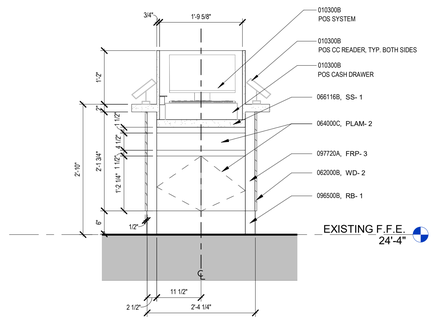
C8 DETAIL SECTION - POS DETAIL SECTION

A706 | SCALE: 1 1/2" = 1'-0"



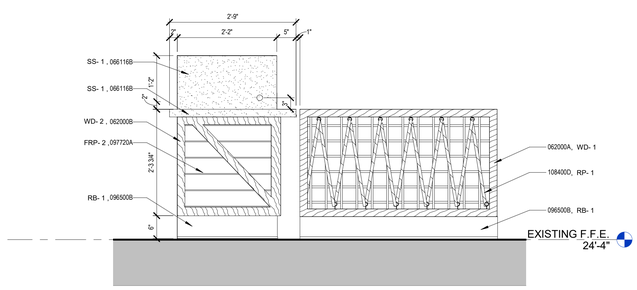
E3 DETAIL SECTION - QUEUE RAIL TYP

A706 | SCALE: 1 1/2" = 1'-0"



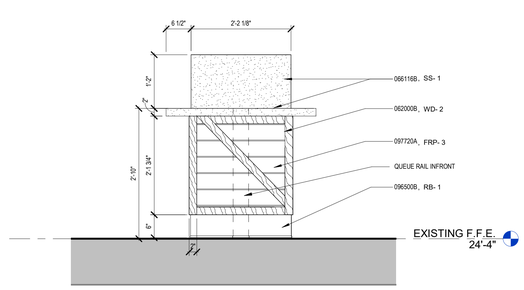
C3 DETAIL ELEVATION - POS STATION BACK VIEW

A706 | SCALE: 3/4" = 1'-0"



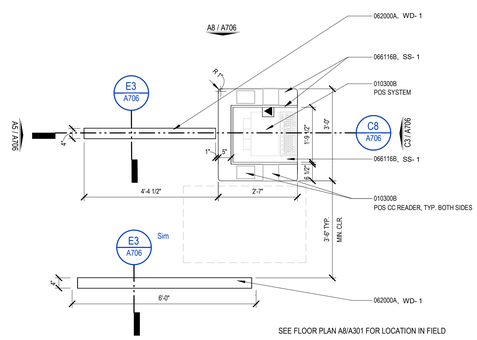
A8 POS STATION - SIDE VIEW ELEVATION

A706 | SCALE: 3/4" = 1'-0"



A5 POS STATION - FRONT VIEW ELEVATION

A706 | SCALE: 3/4" = 1'-0"



A2 ENLARGED PLAN - POS STATION

A706 | SCALE: 1/2" = 1'-0"

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C-34039
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SAN DIEGO, CA

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DETAILS

DATE	12/09/2022		
DR	ACR	CK	EJP
PGAV	64115-00	CLIENT	SEA

SHEET NUMBER

A706

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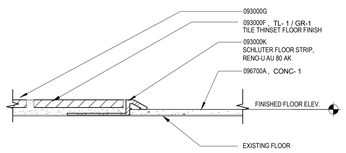
Autodesk Docs://64115-00 SWSD Shipwreck Cafe/64115-00_SWSD_Shipwreck_AR_R22.rvt

MATERIAL & F.F.E INFORMATION

MATERIAL LEGEND - CAFE

MATERIAL KEYNOTE	MATL. TAG	MATERIAL	MANUFACTURER	PRODUCT	NUMBER	COLOR	FINISH	SIZE	PRODUCT REP	REMARKS
057500C	MT-1	WIRE MESH	McNICHOLS	SQUARE, CARBON STEEL, COLD ROLLED, WELDED - TRIMMED, 4"X4" MESH	3604250041	CARBON STEEL	COLD ROLLED	SHEET SIZE: 48" X 120" 2-3/4" GAUGE / .250" THICK WIRE DIAMETER	SALES@MCNICHOLS.COM 877-969-1889	
064000A	WD-1 (ST-1)	HARD WOOD	N/A	N/A	SEE REMARKS	SEE REMARKS	WOOD CLASSICS OIL STAIN OR EQUAL W/ SATIN FINISH	N/A	HANK MEINKING HANK.MEINKING@SHERWIN.COM 314-281-7485	GC TO COLOR MATCH FRP-2 GC TO PROVIDE SAMPLE FOR DESIGNER APPROVAL PRIOR TO ORDERING
064000A	WD-2 (ST-2)	HARD WOOD	N/A	N/A	SEE REMARKS	SEE REMARKS	WOOD CLASSICS OIL STAIN OR EQUAL W/ SATIN FINISH	N/A	HANK MEINKING HANK.MEINKING@SHERWIN.COM 314-281-7485	GC TO COLOR MATCH FRP-3 GC TO PROVIDE SAMPLE FOR DESIGNER APPROVAL PRIOR TO ORDERING
064000C	PLAM-1	PLASTIC LAMINATE	WILSONART OR EQUAL	PLASTIC LAMINATE	N/A	SEE REMARKS	SEE REMARKS	N/A	MIKE NOBLOT MNOBLOT@COMPIDEISTRIBUTORS.COM 636-275-6044	GC TO COLOR MATCH FRP-2 GC TO PROVIDE SAMPLE FOR DESIGNER APPROVAL PRIOR TO ORDERING
064000C	PLAM-2	PLASTIC LAMINATE	WILSONART OR EQUAL	PLASTIC LAMINATE	N/A	SEE REMARKS	SEE REMARKS	N/A	MIKE NOBLOT MNOBLOT@COMPIDEISTRIBUTORS.COM 636-275-6044	GC TO COLOR MATCH FRP-3 GC TO PROVIDE SAMPLE FOR DESIGNER APPROVAL PRIOR TO ORDERING
066116B	SS-1	SOLID SURFACE	CORIAN	SOLID SURRFACE	N/A	CARBON CONCRETE	STANDARD	N/A	JOSH WELCH JWELCH@HLLMARK.COM 314-254-6634	FOH COUNTER TOPS
930000F	TL-1	QUARRY TILE	STONE SOURCE	TECHNIC	N/A	GRIGIO CENERE	N/A	7 7/8" x 7 7/8"	MITCHELL KALMAR MKALMAR@STONESOURCE.COM...	
093000G	GR-1	TILE GROUT	MAPEI	EPOXY GROUT	19	PEARL GRAY	N/A	N/A	N/A	
095100A	ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG	KITCHEN ZONE	673	WHITE	N/A	SEE RCP	BRETT LINDENMEYER BALINDENMEYER@ARMSTRONGCEILINGS.COM 832-588-5962	
095100A	ACT-2	ACOUSTIC CEILING TILE	ARMSTRONG	TECTOM CREATE	5334W2L04T10CXP	RUSTIC PLANK	N/A	SEE RCP	BRETT LINDENMEYER BALINDENMEYER@ARMSTRONGCEILINGS.COM 832-588-5962	BLACK T-GRID, ROUGH MATCH TO PT-4
096500B	RB-1	RUBBER WALL BASE	JOHNSONITE	TRADITIONAL WALL BASE	29	MOON ROCK WG	N/A	6"H X 1/8" THICKNESS	AMY ELLIS AMY.ELLIS@TARKETT.COM 314-712-0803	WALLBASE THROUGHOUT
096700A	CONC-1	EPOXY COAT	WESTCOAT SPECIALTY COATING SYSTEMS	EC-11 WATER-BASED EPOXY	EC-11	TBD				
097200A	WC-1	TYPE II, W-101	MOMENTUM	HAYDEN	L2-HN-07	ASCOT	N/A	52/54" W	MICHELE LAND MLAND@MOMTEX.COM 314-413-2261	FLAME RESISTANCE: ASTM E84 CLASS A, CAN/ULC S102
097720A	FRP-1	DECORATIVE FIBERGLASS REINFORCED WALL PANEL SYSTEM	MARLITE	VOLTAFLEX SUBWAY TILE	N/A	SEE REMARKS	MATTE WHITE	4'x8' .062"	KAREN KANE KKANE@MARLITE.COM 800-877-1221	AT KITCHEN LOCATIONS, KITCHEN SIDE OF KNEE WALL, KITCHEN WALL WRAPS AT ARCHES, INSIDE OF ARCHES MATTE WHITE PANEL TO BE PAINTED TO MATCH PT-3, GC TO PROVIDE PAINTED SAMPLE FOR DESIGNER APPROVAL PRIOR TO INSTALL
097720A	FRP-2	DECORATIVE FIBERGLASS REINFORCED WALL PANEL SYSTEM	MARLITE	DIGITALLY PRINTED PLANK	323-S2	PLANTATION OAK	N/A		KAREN KANE KKANE@MARLITE.COM 800-877-1221	AT GUEST SIDE OF KNEE WALL
097720A	FRP-3	DECORATIVE FIBERGLASS REINFORCED WALL PANEL SYSTEM	MARLITE	DIGITALLY PRINTED PLANK	S344-S4	WILLOW BARK	N/A		KAREN KANE KKANE@MARLITE.COM 800-877-1221	PATTERN TO BE INSTALLED HORIZONTALLY, AT POS STATIONS
099000A	PT-1	INTERIOR PAINT	SHERWIN WILLIAMS	SEE SPEC	SW 7009	PEARLY WHITE	EGGSHELL	N/A	HANK MEINKING HANK.MEINKING@SHERWIN.COM 314-281-7485	TYP WALL PAINT
099000A	PT-2	INTERIOR PAINT	SHERWIN WILLIAMS	SEE SPEC	SW 7009	PEARLY WHITE	FLAT	N/A	SEE ABOVE	TYP CEILING PAINT
099000A	PT-3	INTERIOR PAINT	SHERWIN WILLIAMS	SEE SPEC	SW 6494	LAKESHORE	SEMI-GLOSS	N/A	SEE ABOVE	ACCENT PAINT @ SOFFIT
099000A	PT-4	INTERIOR PAINT	SHERWIN WILLIAMS	SEE SPEC	SW 6258	TRICON BLACK	SEMI-GLOSS	N/A	SEE ABOVE	ACCENT PAINT
099000A	PT-5	INTERIOR PAINT	SHERWIN WILLIAMS	SEE SPEC	SW 7067	CITY SCAPE	SEMI-GLOSS	N/A	SEE ABOVE	ACCENT PAINT
099000A	PT-6	INTERIOR PAINT	SHERWIN WILLIAMS	SEE SPEC	SW9053	AGUA FRIA	SEMI-GLOSS	N/A	SEE ABOVE	ACCENT PAINT @ COUNTER COLUMNS
108400A	RP-1	DECORATIVE ROPE	KNOT & ROPE SUPPLY	3/4" 3-STRAND COTTON	0191	N/A	N/A	3/4"	KNOT & ROPE SUPPLY 419-873-8300	THEMATIC ROPE SCREEN AT FIXED STANTIONS SEE D4/A501 FOR MORE INFORMATION, GC TO SUBMIT SAMPLE FOR DESIGNER APPROVAL
108400D	RP-2	DECORATIVE ROPE	WEST COAST NETTING	KNOTTED #360 NETTING - 3" MESH	K360-3"	RAW WHITE	FLAME PROOF FINISH	SEE DETAIL XXXXXX		THEMATIC KNOTTED NETTING @ ENTRY

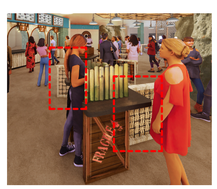
Comments



C6 TRANSITION DETAIL T-1 TO CONC-1
A901 | SCALE: 6" = 1'-0"

DESIGN INTENT RP-2:
THEMATIC ROPE SCREEN TO BE INSTALLED AT ENTRY,
SEE DETAILS @ A702
REFER TO MATERIAL LEGEND A901 FOR SPECIFICATION

C4 CAFE - RP-2 THEMING DIRECTION
A901 | SCALE: 1 1/2" = 1'-0"



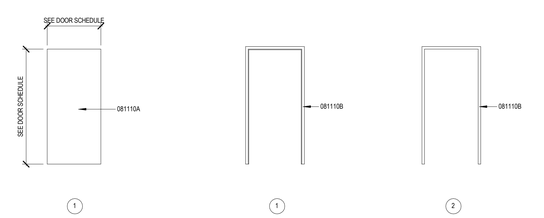
DESIGN INTENET RP-1:
THEMATIC ROPE TO BE INSTALLED AT STANTIONS, SEE DETAILS @ A704
REFER TO MATERIAL LEGEND A901 FOR SPECIFICATION

C3 CAFE - RP-1 THEMING DIRECTION
A901 | SCALE: 1 1/2" = 1'-0"

DOOR & FRAME TYPES

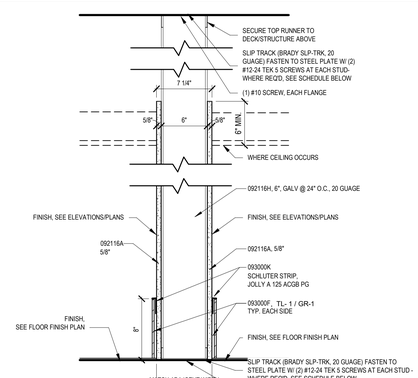
DOOR SCHEDULE

DOOR NUMBER	DOOR							FRAME			DETAILS			DOOR FIRE RATING	WALL FIRE RATING	REMARKS
	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	GLAZING	TYPE	MATERIAL	FINISH	TYPE	HEAD	JAMB	SILL			
11031A	3'-0"	7'-0"	1 3/4"	HM	SEE ELEV.	Y	1	HM	PT-3	1	A6/A702	A4/A702	A2/A702			ROUND VISION PANEL, CENTERED
11031B	----	----	----	----	----	----	----	11031B	PT-3	2	A8/A702	A8/A702	O0/A901			CASED OPENING FRAME

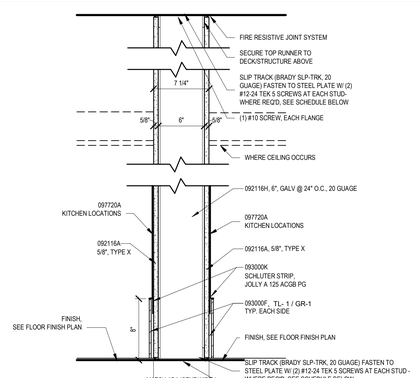


A8 DOOR & FRAME TYPES
A901 | SCALE: 1/4" = 1'-0"

PARTITION TYPES



A4 WALL PARTITION 1 - INTERIOR
A901 | SCALE: 1 1/2" = 1'-0"



A2 WALL PARTITION 2 - INTERIOR 1 HR RATED
A901 | SCALE: 1 1/2" = 1'-0"
UL DESIGN U465

GENERAL PARTITION NOTES:

APPLIED FINISH MATERIALS
1. APPLIED FINISHES INCLUDE, BUT ARE NOT LIMITED TO: PAINT, VENEER PLASTER, WALL COVERINGS, RESINOUS COATINGS, ACOUSTICAL WALL PANELS, WOOD MILLWORK TRIM, AND WOOD WALL PANELS.
2. GENERALLY, WALL TYPES DO NOT INCLUDE OR SHOW ANY APPLIED FINISHES. (WALL TYPES WITH WOOD PANEL AND/OR OTHER VENEERS MAY BE CREATED.) SEE FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR MATERIALS TO BE INSTALLED OVER THE BASIC PARTITION ASSEMBLY.
3. THE CONTRACTOR SHALL COORDINATE DIMENSIONAL LAYOUT WITH APPLIED FINISH THICKNESS WHERE CLEAR OR MINIMUM CLEAR DIMENSIONS ARE REQUIRED.
4. THE CONTRACTOR SHALL COORDINATE ANY ADDITIONAL REQUIREMENTS WITHIN WALL FRAMING NECESSARY FOR APPLIED FINISH MATERIALS.

FIRE-RATED & SMOKE-RATED WALLS
1. FIRE/SMOKE SEALANTS AND/OR FIRE SAFING IS REQUIRED AT RATED PARTITIONS WHERE THE PARTITION JAMB CONDITIONS INTERFACE WITH DISSIMILAR MATERIALS OR WHERE FIRE TAPING AT THE INTERFACE OF MATERIALS IS NOT POSSIBLE.
2. FIRE SEALANTS ARE **NOT REQUIRED** AT THE BASE/SILL CONDITION OF PARTITIONS.
3. WHERE A FIRE-RATED PARTITION IS ALSO NOTED TO HAVE ACOUSTICAL ELEMENTS, FIRE SEALANTS AND/OR FIRE SAFING SHALL BE PROVIDED IN LIEU OF ACOUSTICAL SEALANTS. ACOUSTICAL SEALANT SHALL BE PROVIDED AT THE BASE/SILL OF PARTITIONS.

UNIT MASONRY
1. WALLS SHALL BE LAYED OUT IN ADVANCE FOR ACCURATE SPACING OF THE UNITS WITH UNIFORM JOINT WIDTHS AND FOR ACCURATE LOCATING OF OPENINGS, CONTROL JOINTS, ETC. THE USE OF UNITS CUT TO LESS-THAN-HALF SIZE SHALL BE AVOIDED WHERE POSSIBLE.
2. THE CONTRACTOR SHALL COORDINATE OPENINGS AND RECESSES WITH MASONRY WALLS TO ACCOMMODATE ANY EQUIPMENT OR ITEMS SPECIFIED BY THE DRAWINGS OR IN THE SPECIFICATIONS.
3. COORDINATE INSTALLATION OF ELECTRICAL AND/OR PLUMBING ITEMS TO BE IMBEDDED IN MASONRY WALLS WITH ELECTRICAL AND PLUMBING DRAWINGS.

GYPSUM BOARD
1. GYPSUM BOARD IS TYPICALLY 5/8" TYPE X, UNLESS NOTED OTHERWISE.
2. PROVIDE **MOISTURE-RESISTANT** OR **CEMENTITIOUS BOARDS** WHERE REQUIRED IN GYPSUM BOARD SPECIFICATION AND WHERE NOTED IN THE DRAWINGS.
3. PROVIDE **IMPACT-RESISTANT BOARDS** WHERE REQUIRED IN THE GYPSUM BOARD SPECIFICATION AND WHERE NOTED IN THE DRAWINGS.

GENERAL NOTES
1. METAL STUDS TO COMPLY WITH ICC-ES ESR-166P OR APPROVED EQUAL.
2. REFER TO FLOOR FINISH PLAN ON SHEET A351 AND MATERIAL LEGEND ON A901 FOR WALL, BASE, AND FLOORING FINISHES.

Keynote List

SEE GENERAL DWG INFO. SHEET FOR COMPLETE LIST

Key Value	Keynote Text
081110A	STEEL DOOR
081110B	STEEL FRAME
092116A	GYPSUM BOARD - 5/8 IN., U.N.O.
092116H	STEEL STUD - SIZE NOTED
093000F	QUARRY TILE
093000G	GROUT - TYPE AS NOTED
093000K	TRANSITION STRIP
096700A	FLUID-APPLIED FLOORING

PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
220 North Broadway, Suite 1000, St Louis, MO 63102
(314) 231-7318 WWW.PGAV.COM

LICENSED ARCHITECT
EDWARD JOSTEL KAMP
C-34039
31 DEC 2023
Renewal Date
STATE OF CALIFORNIA

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND SHALL NOT BE CONSTRUED TO APPLY TO ANY OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR ITEMS NOT PREPARED BY OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

Accessibility for Persons with Disabilities:
This drawing contains layouts and elements critical to providing Access for Disabled Persons. Contractor shall provide verification and certification of Compliance with the applicable accessibility regulations.

Theming Design Intent:
The theming scope of work shown on these drawings is for design intent. Outlines, sketches, drawings, picture references, material specifications, and notes on this document are for the express purpose of location, general identification, adjacency, and design intent. Structural design, code compliance, manufacture, installation, and safety of operation are to be provided by the Contractor including engineering documentation signed and sealed by a professional engineer registered to practice by the authority having jurisdiction. The Architect/Designer's review of submittals is for the purpose of checking for conformance with information given and the design concept expressed in the Contract Documents.

REVISION SCHEDULE		
NO	DESCRIPTION	DATE
2	Revision 01	02/10/2023
3	Revision 02	05/10/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

SCHEDULES, MATERIAL LEGEND, & TYPICAL DETAILS

DATE	12/09/2022
DR: ACR	CK: EJP
PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER
A901

5/10/2023 5:35:57 PM

Autodesk Docs://64115-00 SWSD Shipwreck Cafe/64115-00_SWSD_Shipwreck_AR_R22.rvt

PLAN NOTES:

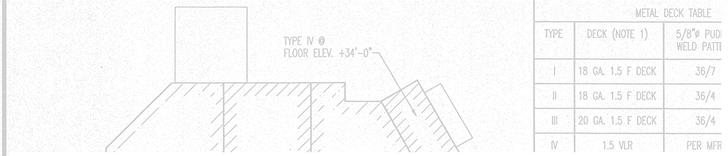
2 15 TOP OF JOIST ELEVATION SHOWN ON PLAN ARE REFERENCE FROM TOP OF SLAB ELEVATION OF 24'-4"

RFI 237

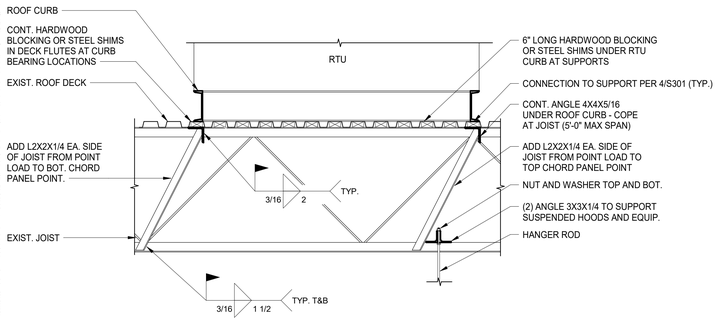
18 RFI #306 MANSARD ROOF FRAMING: BUILT UP OF 18 GA.- 6" J STUDS @ 16"o.c.

PLAN NOTES:

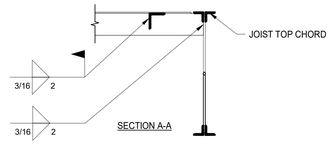
1. SEE SHEET S1.1 FOR GENERAL NOTES.

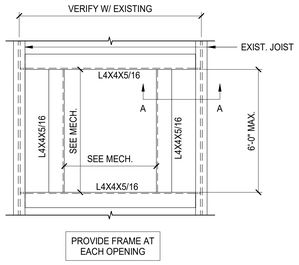


METAL DECK TABLE		
TYPE	DECK (NOTE 1)	5/8"ø PUD WELD PATTI
I	18 GA. 1.5 F DECK	36/7
II	18 GA. 1.5 F DECK	36/4
III	20 GA. 1.5 F DECK	36/4
IV	1.5 VLR	PER MFR



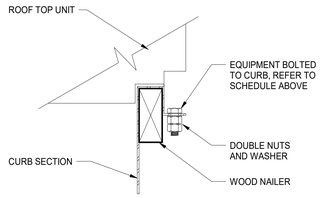
1 S301 TYPICAL ROOF TOP UNIT CURB SUPPORT DETAIL
3/4" = 1'-0"



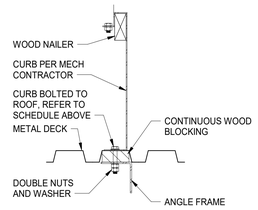


2 S301 TYPICAL RTU ROOF OPENING FRAMING DETAIL
3/4" = 1'-0"

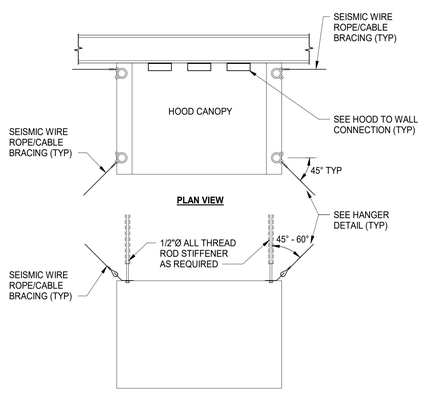
BOLT SPACING SCHEDULE		
	5/8"Ø A325 (MIN) BOLT SPACING	5/8"Ø A325 (MIN) BOLT SPACING
EQUIPMENT	CURB-TO-EQUIPMENT	CURB-TO-STRUCTURE
AH-1 & 2	24" OC MAX	24" OC MAX



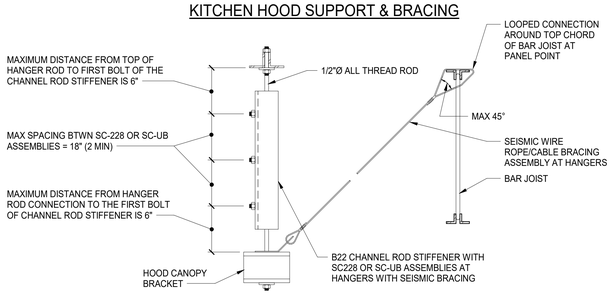
3 S301 ROOF TOP UNIT CURB CONNECTION
3" = 1'-0"



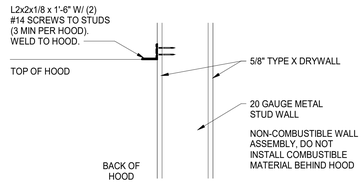
4 S301 ROOF CURB TO ROOF FRAMING CONNECTION
1 1/2" = 1'-0"



KITCHEN HOOD SUPPORT & BRACING



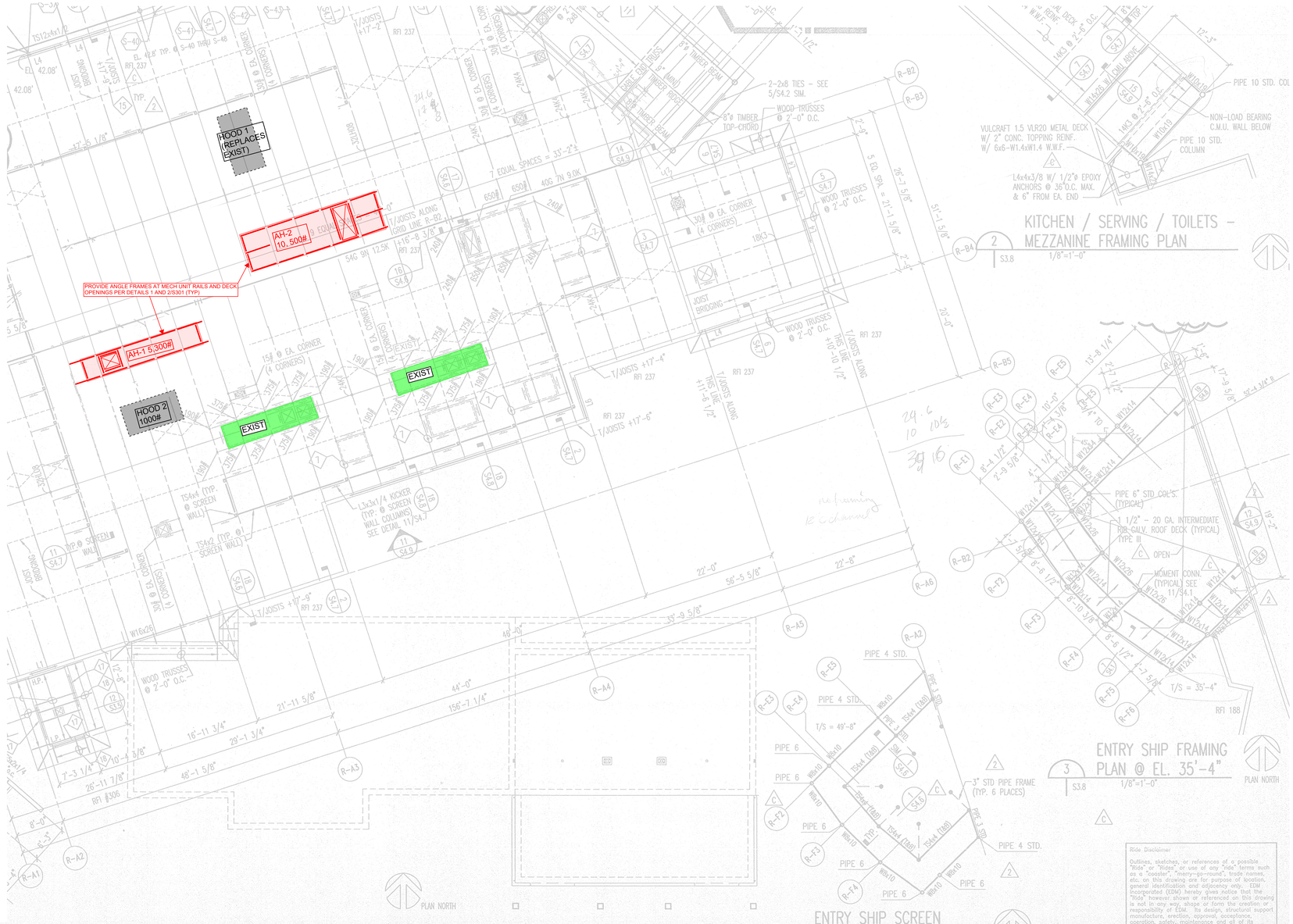
HANGER DETAIL



NOTE: PLACE FASATENER AS CLOSE TO TOP OF HOOD AS POSSIBLE.

HOOD TO WALL CONNECTION

5 S301 KITCHEN HOOD SUPPORT DETAILS
3" = 1'-0"


HOOD 1 (REPLACES EXIST)
AH-2 10,500#
PROVIDE ANGLE FRAMES AT MECH UNIT RAILS AND DECK OPENINGS PER DETAILS 1 AND 2/S301 (TYP)
AH-1 5,300#
HOOD 2 1000#
EXIST
EXIST
EXIST
7 EQUAL SPACES = 33'-2"
406 7H 9.0K
546 9H 12.5K
RFI 237
RFI #306
PLAN NORTH
2-2x8 TIES - SEE 5/S4.2 SIM.
WOOD TRUSSES @ 2'-0" O.C.
8" TIMBER TOP CHORD
30# @ EA. CORNER (4 CORNERS)
15# @ EA. CORNER (4 CORNERS)
JOIST BRIDGING
T/JOISTS +17'-4"
T/JOISTS +17'-6"
T/JOISTS +17'-9"
T/JOISTS ALONG THIS LINE +17'-8 1/2"
T/JOISTS ALONG THIS LINE +10'-0 1/2"
L4x3x1/4 KICKER @ SCREEN WALL COLUMNS) SEE DETAIL 11/S4.7
T5Hx6 (TYP. @ SCREEN WALL)
T5Hx6 (TYP. @ SCREEN WALL)
W16x26
W10x10
W8x10
T5Hx4 (T6B5)
T5Hx4 (T6B5)
T5Hx4 (T6B5)
PIPE 4 STD.
PIPE 6
3" STD PIPE FRAME (TYP. 6 PLACES)
WOOD TRUSSES @ 2'-0" O.C.
WOOD TRUSSES @ 2'-0" O.C.
T/S = 49'-8"
T/S = 35'-4"
RFI 188
KITCHEN / SERVING / TOILETS - ROOF FRAMING PLAN
1/8"=1'-0"
ENTRY SHIP SCREEN WALL FRAMING PLAN
1/8"=1'-0"
ENTRY SHIP FRAMING PLAN @ EL. 35'-4"
1/8"=1'-0"
KITCHEN / SERVING / TOILETS - MEZZANINE FRAMING PLAN
1/8"=1'-0"
VULCRAFT 1.5 VLR20 METAL DECK W/ 2" CONC. TOPPING REINF. W/ 6x6-W1.4xW1.4 W.W.F.
L4x4x3/8 W/ 1/2"ø EPOXY ANCHORS @ 36"O.C. MAX. & 6" FROM EA. END
NON-LOAD BEARING C.M.U. WALL BELOW
PIPE 10 STD. COLUMN
PIPE 10 STD. COL'S. (TYPICAL)
1 1/2" - 20 GA. INTERMEDIATE RIB GALV. ROOF DECK (TYPICAL) TYPE III
OPEN
MOMENT CONN. (TYPICAL) SEE 11/S4.1
W12x14
W12x26
W10x19
W8x10
W8x15
W14x22
W14x26
W14x30
W14x34
W14x38
W14x43
W14x48
W14x53
W14x61
W14x68
W14x74
W14x82
W14x90
W14x99
W14x109
W14x120
W14x132
W14x145
W14x159
W14x176
W14x193
W14x211
W14x233
W14x257
W14x283
W14x311
W14x342
W14x370
W14x398
W14x426
W14x455
W14x500
W14x550
W14x605
W14x665
W14x730
W14x808
W14x873
W14x932
W14x1000
W14x1082
W14x1176
W14x1269
W14x1370
W14x1500
W14x1584
W14x1730
W14x1850
W14x1999
W14x2113
W14x2257
W14x2400
W14x2557
W14x2730
W14x2853
W14x3000
W14x3132
W14x3257
W14x3400
W14x3500
W14x3611
W14x3730
W14x3853
W14x4000
W14x4176
W14x4257
W14x4370
W14x4500
W14x4665
W14x4730
W14x4853
W14x5000
W14x5176
W14x5257
W14x5370
W14x5500
W14x5665
W14x5730
W14x5853
W14x6000
W14x6176
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W14x6665
W14x6730
W14x6853
W14x7000
W14x7176
W14x7257
W14x7370
W14x7500
W14x7665
W14x7730
W14x7853
W14x8000
W14x8176
W14x8257
W14x8370
W14x8500
W14x8665

EQUIPMENT SCHEDULE

ITEM NO.	QTY.	DESCRIPTION	MFGR.	MODEL	REMARKS
1	1 LOT	BREAD RACKS			BY OWNER
2	4	BEVERAGE COOLERS			BY VENDOR
3	2	REFRIGERATORS	TRAULSEN	G20000	TWO SECTION WITH HALF HGT. DOORS
4	8	HOT HOLDING CABINETS	METRO	C589-NFS-U	FULL HEIGHT
5	1	ASSEMBLY COUNTER	CUSTOM		STAINLESS STEEL CONSTRUCTION
6	6	PIZZA OVENS	TURBO CHEF	HCS-9500-1	U.L LISTED FOR VENTLESS OPERATION
7	6	BUN TOASTERS	A.I. ANTUNES	VCT-2000	
8	3	DROP IN COLD PANS	HATCO	CWB-2	2 PAN UNITS
9	3	DROP IN HOT FOOD UNITS	HATCO	HWBI-5DM	5 PAN UNITS
10	1	OVER SHELF	CUSTOM		STAINLESS STEEL CONSTRUCTION
11	1	HEAT LAMPS	HATCO	GRAH-36	36" LONG UNIT
11.1	2	HEAT LAMPS	HATCO	GRAH-48	48" LONG UNITS
11.2	3	HEAT LAMPS	HATCO	GRAH-72	72" LONG UNITS
12	7	UNDER COUNTER HOT CABINETS	ALTO-SHAAM	750-S	
13	6	HEATED DISPLAY CASES	HATCO	GR5DS-60D	60" LONG UNIT 2 TIER SLANTED
14	2	OVER SHELF	CUSTOM		STAINLESS STEEL CONSTRUCTION
15	3	HEAT LAMP UNITS	HATCO	DL-500-RTL	BULB TYPE WITH TRACK LIGHT CONNECTION
16	3	WARMING DRAWER UNITS	PRINCE CASTLE	FHB3482-GM517	
17	6	FROZEN DRINK MACHINES			BY OWNER/VENDOR
18	4	BEVERAGE COOLERS			BY VENDOR
19	2	FRYER UNITS			EXISTING TO BE RE-USED
20	1	DOUBLE SIDED GRILL	TAYLOR	L811	THREE HEAD UNIT - GAS/ELEC COMBO UNIT
21	1	STAINLESS STEEL WALL PANELING			STAINLESS STEEL CONSTRUCTION
22	1	HOOD	CAPTIVE-AIRE	6030ND-2-PSP-F	
23	1	FIRE PROTECTION SYSTEM	ANSUL	R-102	
24	1	DUCT AND FAN			BY HVAC
25	2	FREEZERS			EXISTING TO REMAIN
26	1	WORK TABLE WITH SINK	CUSTOM		ST. ST. CONSTRUCTION w/ 12" d. SINKS
27	1	REFRIGERATED PREP TABLE			EXISTING TO REMAIN
28	1	ROLL IN REFRIGERATOR	TRAULSEN	AR1332LUT-FHS	THREE DOOR UNIT
29	2	BACK COUNTERS WITH HAND SINKS			EXISTING TO REMAIN
30	2	ICE MACHINES			EXISTING TO REMAIN
31	2	REFRIGERATORS	TRAULSEN	G10000	SINGLE SECTION WITH HALF HGT. DOORS
32	1	ASSEMBLY COUNTER	CUSTOM		STAINLESS STEEL CONSTRUCTION
33	1	OVER SHELF	CUSTOM		STAINLESS STEEL CONSTRUCTION
34	1	OVER SHELF	CUSTOM		STAINLESS STEEL CONSTRUCTION
35	1	EXPEDITER COUNTER	CUSTOM		STAINLESS STEEL CONSTRUCTION
36	1	EXPEDITER COUNTER	CUSTOM		STAINLESS STEEL CONSTRUCTION
37	1	FRONT COUNTER	CUSTOM		SOLID SURFACE TOP W/ ST. ST. BASE
38	16	CUP DISPENSERS	SAN JAMAR	C2410C	
39	7	UNDER COUNTER REFRIGERATORS	TRUE	TUC-48-LP-HC	TWO DOOR UNITS
40	7	UNDER COUNTER SHELF UNITS	METRO	A1836NC	
41	0	SPARE NUMBER			
42	1	FRONT COUNTER	CUSTOM		SOLID SURFACE TOP W/ ST. ST. BASE
43	1	EXPEDITER COUNTER	CUSTOM		STAINLESS STEEL CONSTRUCTION
44	1	BACK COUNTER WITH HAND SINK			EXISTING TO REMAIN
45	1	ASSEMBLY COUNTER	CUSTOM		STAINLESS STEEL CONSTRUCTION
46	2	HAND SINKS	ADVANCE TABCO	7-PS-70	WITH SIDE SPLASHES
47	1	ROLL THRU REFRIGERATOR	TRAULSEN	AR1232LPUT-FHS	TWO SECTION
48	5	ROLL IN RACKS	PIPER	RIUG4-11	
49	1	ASSEMBLY COUNTER	CUSTOM		STAINLESS STEEL CONSTRUCTION
50	1	OVER SHELF	CUSTOM		STAINLESS STEEL CONSTRUCTION
51	1	PASS THRU REFRIGERATOR	TRAULSEN	G20004P	TWO SECTION WITH HALF HGT DOORS
52	1	DOUBLE SIDED GRILL	TAYLOR	L820	2 HEAD UNIT
53	1	STAINLESS STEEL WALL PANELING	CUSTOM		STAINLESS STEEL CONSTRUCTION
54	1	HOOD WITH FIRE PROTECTION SYSTEM	CAPTIVE-AIRE	6030ND-2-PSP-F	
55	1	DUCT AND FAN			BY HVAC
56	0	SPARE NUMBER			
57	4	POS STATIONS			BY G.C.
58	4	POS UNITS			BY OWNER
59	1 LOT	SODA SYSTEM			BY VENDOR
60	1	CO2 TANKS	EXISTING TO BE RE-USED - UNITS ARE OUTDOORS BOLTED DIRECTLY TO THE CONCRETE		
61	0	SPARE NUMBER			
62	1	BEVERAGE COUNTER	CUSTOM		SOLID SURFACE TOP W/ ST. ST. BASE
63	3	ICE AND SODA UNITS	LANCER	IBD 4500-30	BY VENDOR
64	3	ICE MAKERS	HOSHIZAKI	KMD-530MAJ	
65	1	CONDIMENT COUNTER			BY G.C.

ENVIRONMENT HEALTH NOTES

1) A CONCRETE SLAB IS PROVIDED FOR TRASH, GARBAGE, AND GREASE CONTAINER. IF WALLS ENCLOSE AREA, THE INTERIOR WALL SURFACES WILL BE SMOOTH, SEALED AND WASHABLE (e.g. PLASTERED SMOOTH AND PAINTED ETC.)
2) ALL FOOD RELATED AND UTENSIL RELATED EQUIPMENT SHALL MEET OR BE EQUIVALENT TO SANITATION STANDARDS ESTABLISHED BY AN AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ACCREDITED PROGRAM.
3) ALL FLOOR MOUNTED EQUIPMENT WILL BE INSTALLED ON MINIMUM 6" HIGH SANITARY LEGS, CASTORS, OR COMPLETELY SEALED IN POSITION ON A 4" HIGH CURB WITH CONTINUOUS COVED BASE. COUNTERTOP EQUIPMENT WILL BE ON 4" SANITARY LEGS OR SEALED TO THE COUNTER UNLESS READILY REMOVABLE.
4) 1/4" SOFT DRINK, ICE OR OTHER DISPENSERS ARE SELF SERVICE, OR IF REFILLS ARE PROVIDED THEY MUST BE PUSH BUTTON TYPES, OR LEVER TYPES WHERE THE LEVER CONTACTS THE CONTAINER AT LEAST ONE INCH BELOW THE RIM.
5) ANY OPERABLE WINDOWS, VENT OPENINGS OR OTHER SIMILAR OPENINGS MUST BE PROVIDED WITH TIGHT FITTING SCREENS OF MINIMUM 15 MESH TO THE INCH. WINDOWS TO BE FIXED AT FOOD PREP, UTENSIL WASHING, OPEN FOOD, AND UTENSIL STORAGE AREAS.
6) ALL EXTERIOR DOORS OPEN OUTWARD AND ARE SELF CLOSING AND TIGHT FITTING.
7) BI-FOLD, FRENCH, ACCORDION STYLE AND ROLL UP DOORS CANNOT OPEN INTO THE FOOD PREP, UTENSIL WASHING OR UNPACKAGED FOOD SERVICE AREAS
8) TOILET ROOM AND DRESSING ROOM DOORS MUST BE SELF CLOSING, TIGHT FITTING.
9) DELIVERY DOORS TO HAVE AIR CURTAIN FANS THAT SPAN THE WIDTH OVER THE DOOR. THE FAN MUST ACTIVATE VIA A MICROSWITCH PROVIDING A MINIMUM VELOCITY OF 200 FPM MEASURED 3 FEET ABOVE THE GROUND.
10) A MINIMUM OF 10 FOOT CANDLES OF LIGHT MEASURED 30" OFF FLOOR IS PROVIDED IN WALK-IN REFRIGERATED STORAGE AND DRY STORAGE ROOMS AND AT LEAST 20 FOOT CANDLES IS PROVIDED WHERE FOOD PROVIDED FOR CONSUMER SELF SERVICE, WHERE FRESH PRODUCE OR PREPACKAGED FOODS ARE SOLD OR OFFERED FOR CONSUMPTION, INSIDE EQUIPMENT SUCH AS REACH IN AND UNDER COUNTER REFRIGERATORS, IN AREAS USED FOR HANDWASHING, WAREWASHING, EQUIPMENT AND UTENSIL STORAGE AND IN TOILET ROOMS
11) A MINIMUM OF 50 FOOT CANDLES OF LIGHT MEASURED 30" OFF FLOOR IS PROVIDED WHEN WORKING WITH FOOD OR WORKING WITH UTENSILS OR EQUIPMENT SUCH AS KNIVES, SLICERS, GRINDERS, OR SAWS WHERE EMPLOYEE SAFETY IS A FACTOR AND IN ALL AREAS DURING PERIODS OF CLEANING
12) SNEEZE SHIELDS FOR ALL LIGHTS ABOVE FOOD PREPARATION, WORK, AND STORAGE AREAS WILL BE PROVIDED
13) ALL WAREWASHING SINKS TO HAVE 3 COMPARTMENTS THAT ARE A MINIMUM SIZE OF AT LEAST 18"X 18"X 12" DEEP OR 18"X20"X 12" DEEP WITH A MINIMUM 18" DRAINBOARD AT EACH END. IF AGAINST A WALL IT MUST HAVE AN 8" INTEGRAL BACK SPLASH. HOWEVER, IT MUST BE CAPABLE OF ACCOMMODATING THE LARGEST UTENSIL TO BE WASHED. A WAREWASHING MACHINE DOES NOT SUBSTITUTE FOR THE SINK REQUIREMENT.
14) SINKS TO HAVE SPOUTS CAPABLE OF REACHING EACH COMPARTMENT
15) FOOD PREP SINK COMPARTMENTS TO BE AT LEAST 18"X18"X 12"DEEP OR 18"X20"X 12"DEEP WITH A MINIMUM 18" DRAIN BOARD. SEPARATE FOOD PREP SINKS TO BE PROVIDED FOR MEATS AND PRODUCE
16) THE 3 OR 4 COMPARTMENT BAR SINK TO BE AT LEAST 12"X 12"X 12" DEEP OR 10"X 14"X 10"DEEP) WITH A MINIMUM 18" DRAIN BOARD AT EACH END
17) A SEPARATE WET WASTE DUMP FIXTURE SHALL BE PROVIDED FOR DISPOSAL OF DRINK OR WASTE ICE OR COFFEE WASTE
18) EACH HAND WASHING SINK MUST HAVE PERMANENTLY MOUNTED SINGLE SERVICE SOAP AND PAPER TOWEL DISPENSERS
19) THE HOT WATER HEATER WILL BE A COMMERCIAL TYPE CAPABLE OF CONSTANTLY SUPPLYING HOT WATER AT A TEMPERATURE OF 120 DEGREE FAHRENHEIT TO ALL SINKS. IN SIZING THE WATER HEATER, THE PEAK HOURLY DEMAND FOR ALL SINKS, ETC., ARE ADDED TOGETHER TO DETERMINE THE MINIMUM REQUIRED RECOVERY RATE
20) ALL LAVATORIES OR HAND SINKS WILL HAVE A COMBINATION FAUCET OR PREMIXING FAUCET CAPABLE OF SUPPLYING WATER TEMPERED TO 100 DEGREES FAHRENHEIT. SELF CLOSING OR METERED FAUCET TO PROVIDE AT LEAST 15 SECONDS OF WATER WITHOUT REACTIVATION
21) ALL PLUMBING, ELECTRICAL AND GAS LINES SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE TO AS GREAT AN EXTENT AS POSSIBLE. ALL EXPOSED CONDUITS, PLUMBING, ETC. SHALL BE INSTALLED AT LEAST 6" OFF FLOOR AND 3/4" FROM WALLS USING STANDOFF BRACKETS
22) CONDUIT, PLUMBING OR PIPING CANNOT BE INSTALLED ACROSS AN AISLE WAY, TRAFFIC AREA, OR DOOR OPENING
23) MULTIPLE RUNS OR CLUSTERS OF CONDUIT OR PIPELINES SHALL BE FURRED IN OR ENCASED IN AN APPROVED SEALED ENCLOSURE
24) ALL LIQUID WASTE SHALL BE DRAINED BY MEANS OF INDIRECT WASTE PIPES INTO A FLOOR SINK. FLOOR SINKS ARE TO BE INSTALLED FLUSH WITH THE FINISH FLOOR SURFACE AND HAVE SUITABLE EASILY REMOVABLE SAFETY COVER GRATES)
25) FLOOR SINK TO BE 50% EXPOSED WHEN NO ACCESS IS PROVIDED FOR CLEANING OR TO BE IN LINE WITH THE FRONT FACE OF ELEVATED FREE STANDING EQUIPMENT
26) APPROVED BACK FLOW PREVENTION DEVICES SHALL BE PROPERLY INSTALLED UPSTREAM OF ANY POTENTIAL HAZARD BETWEEN THE POTABLE WATER SUPPLY AND A SOURCE OF CONTAMINATION. HOSES SHALL NOT BE ATTACHED TO A FAUCET OR HOSE BIBB UNLESS AN APPROVED BACK FLOW PREVENTER IS PROVIDED
27) WATER SUPPLY TO CARBONATORS SHALL BE PROTECTED BY AN APPROVED REDUCED PRESSURE PRINCIPLE BACK-FLOW PREVENTER. THE RELIEF VALVE SHALL DRAIN INDIRECTLY TO SEWER WITH LEGAL AIR GAP
28) FOR CLEANING FLOOR MATS, THE JANITORIAL SINK TO BE A MINIMUM 24"X36" FLOOR MOUNTED TYPE. MOPS SHALL BE PLACED IN A POSITION THAT ALLOWS THEM TO AIR DRY WITH OUT TOUCHING WALLS, EQUIPMENT OR SUPPLIES
29) THE JANITORIAL SINK FAUCET WILL HAVE A THREADED OUTLET FOR HOSE ATTACHMENT AND AN APPROVED BACK FLOW PREVENTION DEVICE. NO CHEMICAL DILUTING SYSTEMS OR UTILITY VALVES TO BE ATTACHED TO FAUCET OUTLET (SHALL BE INSTALLED ON SEPARATE PLUMBING LINES INSTALLED)
30) NO CONSTRUCTION OF WATER HEATER INCLUDING HVAC WILL DRAIN DIRECTLY TO THE JANITORIAL SINK
31) GREASE TRAP TO BE LOCATED OUTSIDE THE FOOD SERVICE ACTIVITY AREA, FLUSH WITH THE FINISHED FLOOR WHEN POSSIBLE. LOCAL WASTEWATER DISTRICT OR BUILDING DEPARTMENT TO BE CONTACTED FOR GREASE REMOVAL REQUIREMENTS
32) FLOOR DRAINS SHALL BE INSTALLED IN FLOORS THAT ARE WATER FLUSHED FOR CLEANING AND IN AREAS WHERE PRESSURE SPRAY METHODS FOR CLEANING EQUIPMENT ARE USED. IN RESTROOMS, JANITORIAL ROOMS, SCULLERIES, AND AT RAMS WITH WARE WASHING. FLOOR SURFACES IN AREAS PURSUANT TO THIS SHALL BE SLOPED 1-50 TO THE FLOOR DRAINS
33) ADEQUATE VENTILATION IS TO BE PROVIDED TO ALL TOILET ROOMS, JANITOR CLOSETS WITH MOP SINKS, AND INDOOR TRASH ROOMS AND IN DRESSING/CHANGING ROOMS
34) THE FLOOR FINISH WILL HAVE A SMOOTH SURFACE UNDER ALL EQUIPMENT AND WALKWAYS WILL HAVE A LIGHT TEXTURE ONLY
35) THE PAINT USED ON WALLS AND CEILINGS OF ALL KITCHENS, FOOD PREPARATION, WORK, AND STORAGE AREAS WILL BE A GLOSS OR SEMI GLOSS ENAMEL. FINISH MATERIAL SHALL BE A LIGHT COLOR IN FOOD PREP AREAS FOR EASY CLEANING
36) PRIOR TO INSTALLATION, SAMPLES OF FINISHES TO BE SUBMITTED TO ENVIRONMENTAL HEALTH FOR APPROVAL AS NEEDED
37) COLD STORAGE ROOMS SHALL BE PROVIDED WITH A SECTION OF SHELVING INSTALLED TO HOLD SHALLOW COOL DOWN PANS - NOT TO EXCEED 4" IN HEIGHT. SPACE BETWEEN SHELVING TO BE AT LEAST 8" HIGH
38) BACK UP DRY STORAGE SHELVING SHALL BE A MINIMUM OF 18 LINEAR FEET (MEASURED WITH TIERS) OR 25% OF KITCHEN, FOOD PREP., AND WORK AREAS, WHICHEVER IS GREATER. SHELVING SHALL BE AT LEAST 18" DEEP AND START A MINIMUM 5IN INCHES OFF THE FLOOR SURFACE
39) SHELVING OVER WET AREAS (SINKS, MOP SINKS, ETC.) AND FOOD PREP SURFACES SHALL BE METAL
40) ALL SEAMS, GAPS, OPENINGS TO BE PROPERLY SEALED
41) EXISTING G02 TANK LOCATION PER CURRENT SHIPWRECK RESTAURANT LOCATION, LOCATED OUTDOOR, BEHIND RESTAURANT. THE EXISTING TANKS ARE BOLTED DIRECTLY TO THE CONCRETE AND TO NOT MOVE

ELECTRICAL SCHEDULE

CONN. NO.	VOLTAGE	PHASE	AMPS LOAD	K.W. LOAD	CONN. TYPE	MGT. A.F.F.	COMMENTS
2	115	1	8.5		D.R.	4'-0"	
3	115	1	7.4		D.R.	7'-6"	
4	115	1	16	2	S.R.	4'-0"	
5	115/208	3	125		S.C.	1'-0"	ELECT. CONTR. SHALL CONNECT TO LOAD CENTER IN CABINET BASE. COUNTER AND EQUIPMENT SHALL BE PRE-WIRED BY K.E.C. BACK TO LOAD CENTER
6A	208	1	37		S.R.	1'-6"	PRE-WIRED BY K.E.C. FROM LOAD CENTER - NEMA 6-50P
6B	208	1	37		S.R.	1'-6"	PRE-WIRED BY K.E.C. FROM LOAD CENTER - NEMA 6-50P
6C	208	1	37		S.R.	1'-6"	
6D	208	1	37		S.R.	1'-6"	
7	208	1	15.8	3.2	S.R.	1'-6"	PRE-WIRED BY K.E.C. FROM LOAD CENTER - NEMA 6-20P
8	115	1	3.8	.5	D.R.	1'-6"	PRE-WIRED BY K.E.C. FROM LOAD CENTER - NEMA 5-15P
9	208	1	26.9	6	S.R.	1'-6"	PRE-WIRED BY K.E.C. FROM LOAD CENTER - NEMA 6-50P
11A	115	1	6.7	.8	D.R.	1'-6"	PRE-WIRED BY K.E.C. FROM LOAD CENTER - NEMA 5-15P
11B	115	1	9.2	1.1	D.R.	1'-6"	PRE-WIRED BY K.E.C. FROM LOAD CENTER - NEMA 5-15P
11C	115	1	14.4	1.7	D.R.	1'-6"	PRE-WIRED BY K.E.C. FROM LOAD CENTER - NEMA 5-15P
12	115	1	9	1.1	D.R.	1'-6"	PRE-WIRED BY K.E.C. FROM LOAD CENTER - NEMA 5-15P
13	115/208	1	14.3	3.3	S.R.	1'-6"	PRE-WIRED BY K.E.C. FROM LOAD CENTER - NEMA L14-20P
15	115	1	16	2	J.B.	9'-0"	ELECT. CONTR. SHALL CONNECT TO TRACK LIGHT CONNECTION AT CEILING
16	208	1	13.6	2.8	S.R.	4'-0"	PRE-WIRED BY K.E.C. FROM LOAD CENTER - NEMA 6-20P
17	115	1	15		D.R.	1'-6"	PRE-WIRED BY K.E.C. FROM LOAD CENTER - VERIFY - EQUIPMENT SUPPLIED BY VENDOR
18A	115	1	5.4		D.R.	1'-6"	PRE-WIRED BY K.E.C. FROM LOAD CENTER - NEMA 5-15P
18B	115	1	5.4		D.R.	4'-0"	
19	EXISTING EQUIPMENT TO BE RE-USED - RE-USE EXISTING UTILITIES						
20	208	3	22	8	S.R.	1'-6"	NEMA 15-30P
22	115	1	15		J.B.	9'-0"	ELECT. CONTR. SHALL CONNECT TO J-BOX ON TOP OF HOOD FOR PRE-WIRED HOOD LIGHTS
23A	115	1	20		J.B.	9'-0"	ELECT. CONTR. SHALL PROVIDE 20 AMP 24 HR DEDICATED CIRCUIT FOR FIRE PROTECTION SYSTEM AT HOOD
23B					J.B.	9'-0"	ELECT. CONTR. SHALL INNERCONNECT EXHAUST FANS AND MAKE-UP AIR FANS TO MICRO-SWITCH IN FIRE PROTECTION CABINET
23C					J.B.	4'-0"	ELECT. CONTR. SHALL BROVIDE J-BOX AND EMPTY CONDUIT IN WALL FOR REMOTE MANUAL PULL STATION - SEE DETAIL THIS SHEET
25	115	1	14.9		D.R.	7'-6"	EXISTING EQUIPMENT TO BE RE-USED - RE-USE UTILITIES
28	115	1	12.8		D.R.	7'-6"	
31	115	1	4.9		D.R.	7'-6"	
32	115/208	3	125		S.C.	1'-0"	ELECT. CONTR. SHALL CONNECT TO LOAD CENTER IN CABINET BASE. COUNTER AND EQUIPMENT SHALL BE PRE-WIRED BY K.E.C. BACK TO LOAD CENTER
39	115	1	3		D.R.	1'-6"	
45	115	1	20	1.92	D.R.	4'-0"	CONVENIENCE OUTLET
47	115	1	13.4		D.R.	7'-6"	
49	115/208	3	100		S.C.	1'-0"	ELECT. CONTR. SHALL CONNECT TO LOAD CENTER IN CABINET BASE. COUNTER AND EQUIPMENT SHALL BE PRE-WIRED BY K.E.C. BACK TO LOAD CENTER
51	115	1	7.4		D.R.	7'-6"	
52A	208	3	48	17	S.R.	1'-6"	NEMA 15-60P
52B	208	3	48	17	S.R.	1'-6"	NEMA 15-60P
54A	115	1	15		J.B.	9'-0"	ELECT. CONTR. SHALL CONNECT TO J-BOX ON TOP OF HOOD FOR PRE-WIRED HOOD LIGHTS
54B	115	1	20		J.B.	9'-0"	ELECT. CONTR. SHALL PROVIDE 20 AMP 24 HR DEDICATED CIRCUIT FOR FIRE PROTECTION SYSTEM AT HOOD
54C					J.B.	9'-0"	ELECT. CONTR. SHALL INNERCONNECT EXHAUST FANS AND MAKE-UP AIR FANS TO MICRO-SWITCH IN FIRE PROTECTION CABINET
54D					J.B.	4'-0"	ELECT. CONTR. SHALL BROVIDE J-BOX AND EMPTY CONDUIT IN WALL FOR REMOTE MANUAL PULL STATION - SEE DETAIL THIS SHEET
58A	115	1	20	1.92	D.R.	1'-6"	ELECT. CONTR. SHALL PROVIDE a 20 A DEDICATED CIRCUIT FOR REGISTER
58B					J.B.	1'-6"	RJ-11 DATA COMMUNICATION LINE
59	115	1	20	1.92	D.R.	1'-6"	FOR CARBONATORS
63	115	1	2		D.R.	7'-6"	
64	115	1	12		D.R.	7'-6"	

ELECTRICAL NOTES:

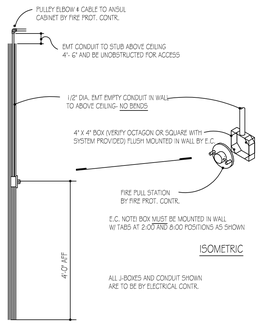
1. ALL ELECTRICAL OUTLETS AND CONNECTIONS SHOWN ON PLAN ARE FOR FOODSERVICE EQUIPMENT AND ARE FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR SHALL VERIFY ALL LEFT TO RIGHT DIMENSIONAL LOCATIONS WITH THE KITCHEN EQUIPMENT CONTRACTORS SHOP DRAWINGS.
2. ELECTRICAL CONTRACTOR SHALL VERIFY ALL INCOMING SERVICES, MAKE ALL EXTERNAL # INTERNAL CONNECTIONS AND PROVIDE ALL SWITCHES, BREAKERS, PANEL BOARDS, CONDUITS, J-BOXES, ETC. AS NECESSARY TO MAKE FOODSERVICE EQUIPMENT FUNCTIONAL
3. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL J-BOXES, OUTLETS AND RECEPTACLES IN FIXTURES. FIXTURE FABRICATOR TO LOCATE ALL RECEPTACLES AND/OR SWITCHES WHEN PART OF THE FIXTURE. INTERNAL WIRING SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
4. ELECTRICAL CONTRACTOR SHALL MAKE ALL INTER-CONNECTIONS FOR ALL FOODSERVICE EQUIPMENT REQUIRING A FIELD JOINT DUE TO LENGTH OR OTHER CONSTRAINTS. (THIS MAY INCLUDE BUT IS NOT LIMITED TO: EXHAUST VENTILATORS, CHEF'S COUNTERS, BUFFET COUNTERS, CONVEYORS, ETC.)
5. ALL SYMBOLS NOTED AS 12", 18", 24", ETC. ARE FROM FINISHED FLOOR TO CENTERLINE OF STUB-OUT AT HEIGHT INDICATED ON PLAN. ALL SYMBOLS NOTED AS STUB-UP SHALL TERMINATE IN A J-BOX MOUNTED HORIZONTAL TO THE FINISHED FLOOR. THE J-BOX TOP SHALL BE AT 5 1/2" A.F.F. AND SHALL BE FITTED WITH APPROPRIATE RECEPTACLE AND FACE PLATE.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE A 6'-0" PIGTAIL FLEX CONDUIT AT ALL DIRECT CONNECT STUB-OUTS. ELECTRICAL CONTRACTOR TO EXTEND AND CONNECT TO ALL EQUIPMENT AND/OR FIXTURES AS REQUIRED.
7. ELECTRICAL CONTRACTOR SHALL CONNECT 120V CONTROL CIRCUIT FROM FIRE PROTECTION SYSTEM TO CONTROL COIL.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE A MINIMUM OF 3 WIRES ON ALL 208 OR 230 VOLT CIRCUITS.
9. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL SERVICE ON ROOF FOR EXHAUST AND/OR MAKE-UP AIR SYSTEMS. ELECTRICAL CONTRACTOR SHALL VERIFY LOCATION.
10. ELECTRICAL CONTRACTOR SHALL CONNECT AND INSTALL UNDERBAR LIGHTING AND CONNECT BACKBAR DISPLAY LIGHTING.
11. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL STAINLESS STEEL COVER PLATES ON ALL RECEPTACLES AND SWITCHES IN FOODSERVICE AREAS. ALL RECEPTACLES AND SWITCHES SHALL BE SET VERTICALLY.
12. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL GENERAL LIGHTING FIXTURES. DECORATIVE LIGHTING FIXTURES SUPPLIED BY THE KITCHEN EQUIPMENT CONTRACTOR SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR.
13. ELECTRICAL CONTRACTOR SHALL PROVIDE CAPS AND CORDS FOR ALL ITEMS WHICH USE CONVENIENCE OUTLETS WHEN NOT SUPPLIED BY THE MANUFACTURER. ELECTRICAL CONTRACTOR SHALL SHORTEN ANY CORDS IF NECESSARY OR IF REQUESTED. KITCHEN EQUIPMENT CONTRACTOR SHALL COORDINATE.
14. ELECTRICAL CONTRACTOR SHALL PROVIDE TWIST-LOCK TYPE RECEPTACLES ON ALL PENDANT CORDS THAT HANG FROM A CEILING JUNCTION BOX. KITCHEN EQUIPMENT CONTRACTOR SHALL PROVIDE TWIST-LOCK PLUGS ON ALL FOODSERVICE EQUIPMENT POWERED BY THE PENDANT CORDS.
15. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL FLY FANS AND/OR AIR CURTAINS PROVIDED AND INSTALLED BY THE KITCHEN EQUIPMENT CONTRACTOR.
16. LIGHT AND POWER PANELS SHALL BE SELECTED AND SIZED TO ALLOW FOR A 20 PERCENT CIRCUIT CAPACITY FOR FUTURE USE.
17. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONDUIT FOR BEVERAGE AND REMOTE REFRIGERATION LINES AS REQUIRED. CONDUIT BENDS SHALL BE A MINIMUM OF 24" RADIUS.
18. BEVERAGE AND/OR REFRIGERATION CONDUIT LINES DEPICTED ON PLAN ARE SCHEMATIC ONLY. ACTUAL LINE RUN LOCATION/ROUTE SHALL BE VERIFIED AND COORDINATED BY THE ELECTRICAL CONTRACTOR AND KITCHEN EQUIPMENT CONTRACTOR AND/OR VENDOR.
19. BEVERAGE CONDUITS REQUIRE A PULL BOX OR PULL SLEEVE EVERY 75'-0" OR EVERY THREE (3) BENDS, WHICH EVER COMES FIRST. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL PULL BOXES. KITCHEN EQUIPMENT CONTRACTOR TO COORDINATE LOCATION BASED ON MANUFACTURERS RECOMMENDATION.
20. ELECTRICAL CONTRACTOR SHALL CONNECT ALL COMPRESSORS COMPLETE WITH DISCONNECT SWITCHES AND MAGNETIC STARTERS.
21. ELECTRICAL CONTRACTOR SHALL PROVIDE ON/OFF SWITCH WITH MAGNETIC STARTER(S) FOR EXHAUST FAN AND/OR MAKE-UP AIR FAN.
22. ELECTRICAL CONTRACTOR SHALL VERIFY ALL WIRING OF WALK-IN COOLERS/FREEZERS, EXHAUST HOODS, BUFFET COUNTER, DISH MACHINES AND BOOSTER HEATERS, ETC. WITH SHOP DETAILS.
23. ELECTRICAL CONTRACTOR SHALL VERIFY TYPE OF CONDUIT THAT MEETS LOCAL CODES.
24. ELECTRICAL CONTRACTOR SHALL PROVIDE SEAL TIGHT CONDUIT IN ALL EXPOSED AREAS.
25. KITCHEN EQUIPMENT CONTRACTOR SHALL VERIFY ALL UTILITY LOADS SHOWN ON THIS PLAN. IF DISCREPANCIES ARE FOUND, THE KITCHEN EQUIPMENT CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE CHANGES REQUIRED WITH ALL TRADES AND PARTIES INVOLVED PRIOR TO PURCHASE AND INSTALLATION OF EQUIPMENT. THE KITCHEN EQUIPMENT CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH ANY CHANGES REQUIRED AS A RESULT OF ITS FAILURE TO COORDINATE AS REQUIRED.
26. ELECTRICAL CONTRACTOR SHALL PROVIDE A DEDICATED CIRCUIT WITH AN ISOLATED GROUND FOR ALL POINT OF SALE AND COMPUTER EQUIPMENT SHOWN ON PLAN.
27. ELECTRICAL CONTRACTOR SHALL INTER-WIRE ALL WALK-IN COOLER/ FREEZER LIGHTS (AS REQUIRED.) ALL CONDUIT SHALL BE RUN ON THE TOP EXTERIOR CEILING OF THE WALK-IN. ALL PENETRATIONS SHALL BE SEALED BY THE KITCHEN EQUIPMENT CONTRACTOR.
28. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A SHUNT-TRIP BRANCH BREAKER FOR ALL ELECTRICAL APPLIANCES UNDER THE EXHAUST HOODS UNLESS OTHER WISE NOTED OR PROVIDED IN A UTILITY DISTRIBUTION SYSTEM.

LEGEND

A.	AMPERES
A.F.F.	ABOVE FINISHED FLOOR
C.O.	CONVENIENCE OUTLET
D.F.A.	DOWN FROM ABOVE
E.C.	ELECTRICAL CONNECTION
D.R.	DUPLEX RECEPTACLE
J.B.	JUNCTION BOX
S.R.	SINGLE RECEPTACLE
H.P.	HORSE POWER
K.E.C.	KITCHEN EQUIPMENT CONTRACTOR
K.W.	KILOWATTS
P.W.	PRE-WIRED
P	PHONE LINE/SYSTEM
S.D.	STUB-DOWN
S.O.	STUB-OUT
S.U.	STUB-UP

NOTES;
1. MECHANICAL AND ELECTRICAL REQUIREMENTS SHOWN ARE FOR FOOD SERVICE EQUIPMENT ONLY.

2. ALL DIMENSIONS SHOWN ARE FROM FINISHED SURFACE FLOOR (FLOOR, WALL OR CEILING) TO THE CENTERLINE OF ROUGH-INS.


PULLEY ELBOW # CABLE TO ANSUL CABINET BY FIRE PROT. CONTR.
EMT. CONDUIT TO STUB ABOVE CEILING 4'- 0" AND BE UNOBSTRUCTED FOR ACCESS
1/2" DIA. EMT EMPTY CONDUIT IN WALL TO ABOVE CEILING- NO BENDS
4" x 4" BOX (VERIFY OCTAGON OR SQUARE WITH SYSTEM PROVIDED) FLUSH MOUNTED IN WALL BY E.C.
FIRE PUL

PGAV DESTINATIONS
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DGG
DENNIS G. GLORE, INC.
Food Facilities Consultants
P.O. Box 200
Eureka, MO 63025
Phone: (636) 938-7567 Fax: (636) 938-6356

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REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
2	Revision 01	03/10/2023
3	Revision 02	05/10/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID/ ISSUE FOR PERMIT

Foodservice Equipment Floor Plan

DATE	12/09/2022
DR: MDG	CK: MDG
PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER

FS101

12/8/2022 12:41:09 PM

Autodesk Docs://64115-00 SWSD Shipwreck Cafe/64115-00_SWSD_Shipwreck_ARL_R22.rvt

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DGG
DENNIS G. GLORE, INC.
Food Facilities Consultants
P.O. Box 223
Eureka, MO 63025
Phone: (636) 938-7887 Fax: (636) 938-6596

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REVISION SCHEDULE		
NO	DESCRIPTION	DATE
2	Revision 01	03/15/2023

SeaWorld
SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID/ ISSUE FOR PERMIT

Foodservice Equipment Spot Electrical Plan

DATE	12/09/2022
DR: MDG	CK: MDG
PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER

FS102

12/9/2022 12:41:09 PM
Autodesk Docs://64115-00 SWSD Shipwreck Cafe/64115-00_SWSD_Shipwreck_ARL_R22.rvt

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DENNIS G. GLORE, INC.
Food Facilities Consultants
P.O. Box 223
Eureka, MO 63025
Phone: (636) 938-1567 Fax: (636) 938-6596

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REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
2	Revision 01	03/15/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID/ ISSUE FOR PERMIT

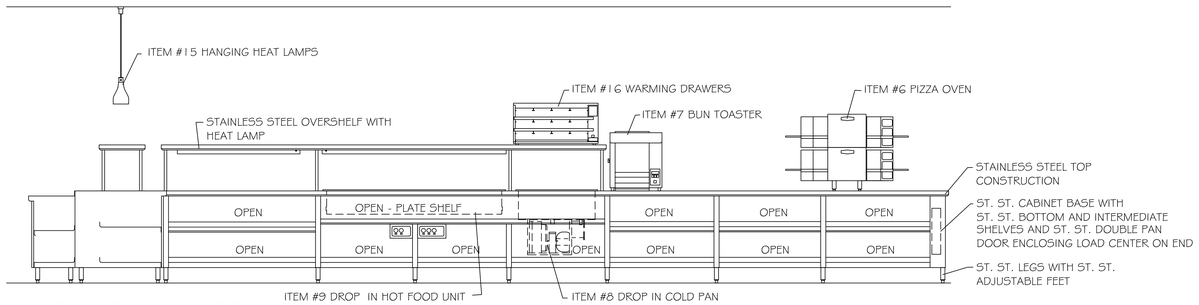
Foodservice Equipment Spot Plumbing Plan

DATE	12/09/2022
DR: MDG	CK: MDG
PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER

FS103

12/9/2022 12:41:09 PM
Autodesk Docs://64115-00 SWSD Shipwreck Cafe/64115-00_SWSD_Shipwreck_AR_R22.rvt



ELEVATION - ITEM #5 ASSEMBLY COUNTER

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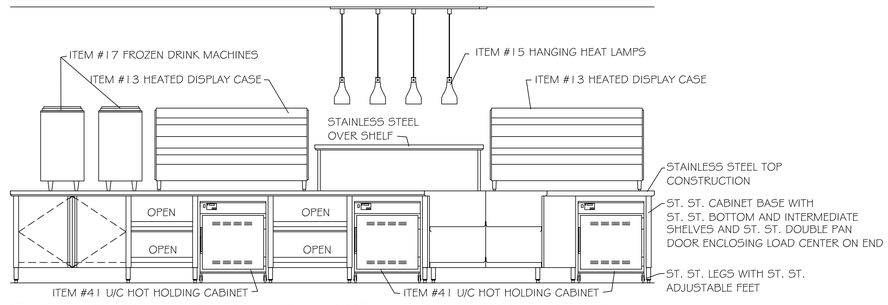

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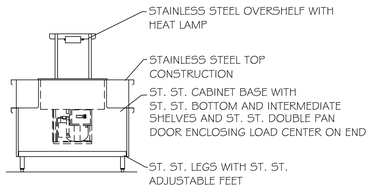

SECTION

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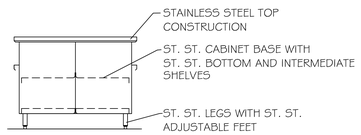

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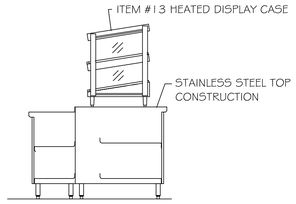

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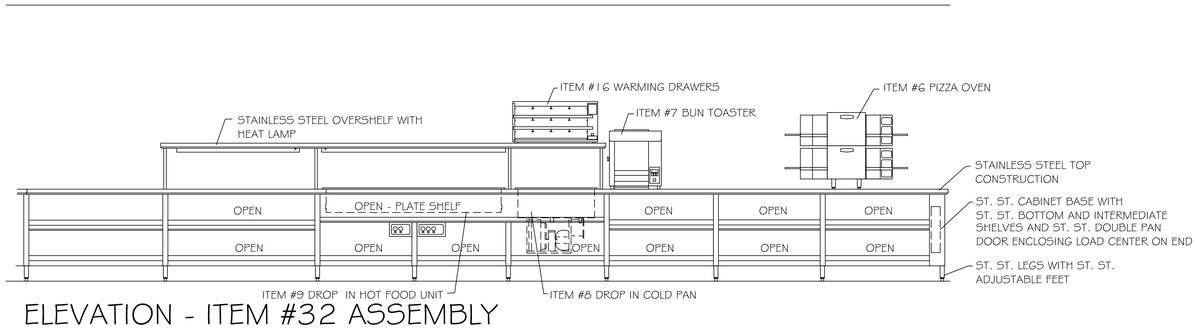

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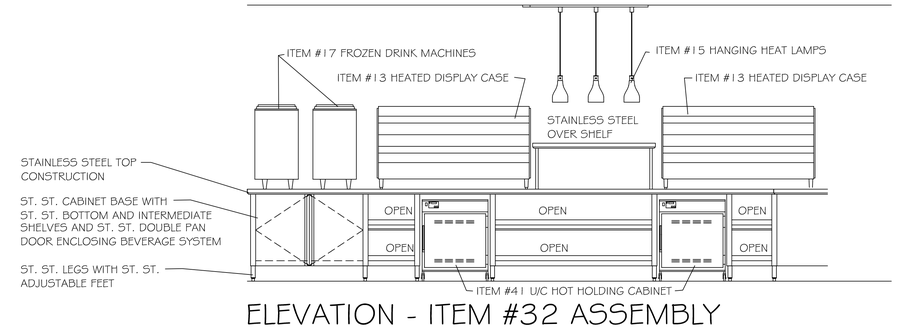

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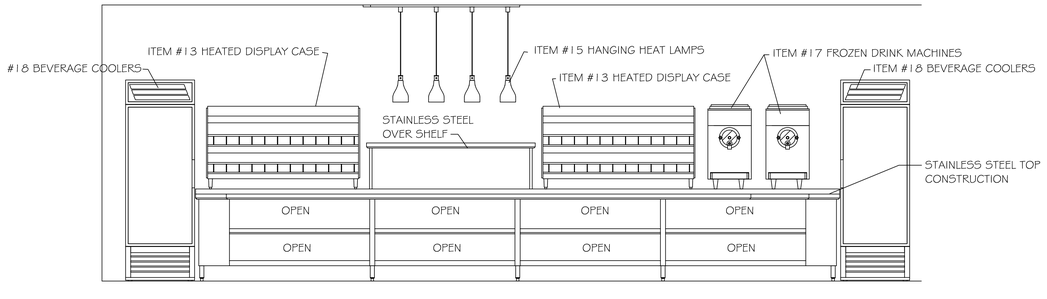

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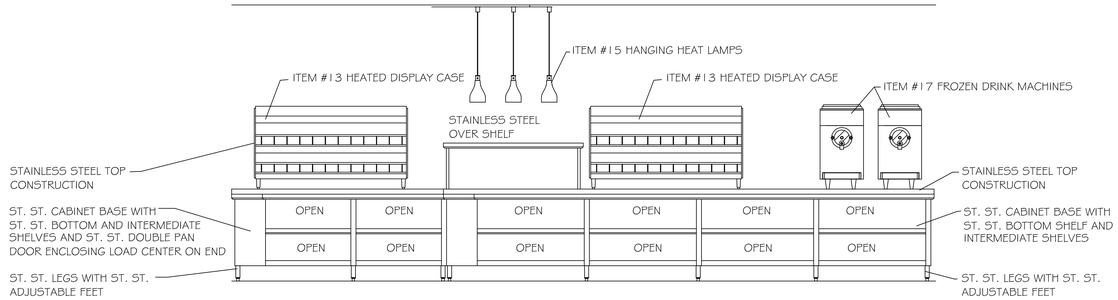

ELEVATION - ITEM #43 EXPEDITER COUNTER

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

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Food Facilities Consultants
P.O. Box 200
Eureka, MO 63025
Phone: (636) 938-7887 Fax: (636) 938-4599

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SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

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ISSUE FOR BID/ ISSUE FOR PERMIT

Foodservice Equipment Elevations

DATE	12/09/2022
DR: MDG	CK: MDG
PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER

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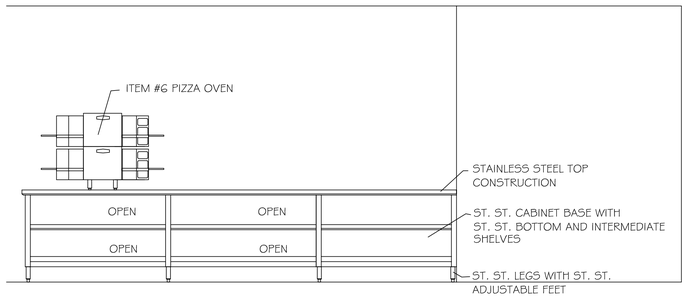

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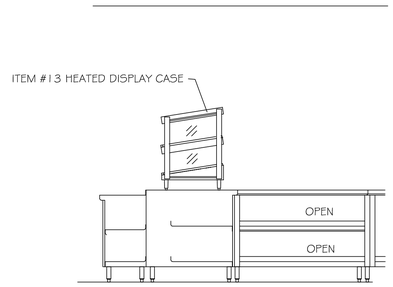
SCALE: 1/2" = 1'-0"



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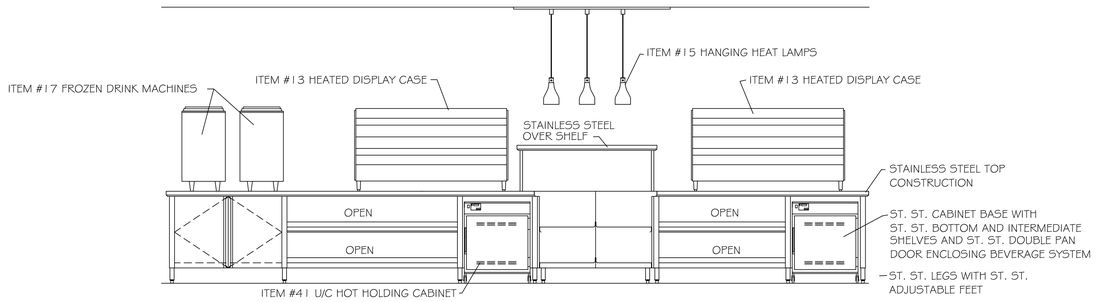

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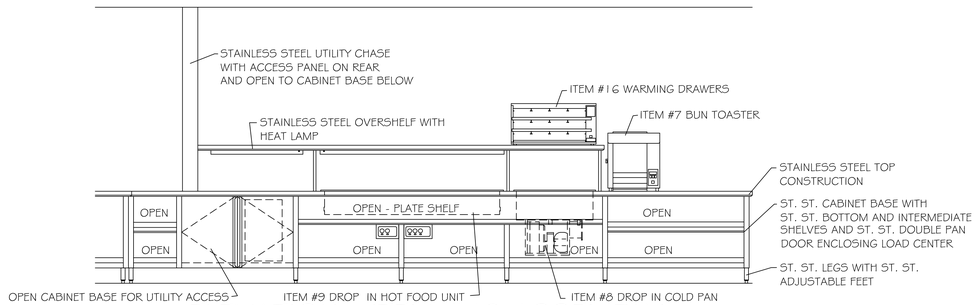

ELEVATION - ITEM #49 ASSEMBLY

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

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Food Facilities Consultants
P.O. Box 100
Eureka, MO 63025
Phone: (636) 938-7557 Fax: (636) 938-6596

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ISSUE FOR BID/ ISSUE FOR PERMIT

Foodservice Equipment Elevations

DATE	12/09/2022
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SHEET NUMBER

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FOR QUESTIONS, CALL THE
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REGION 72
PHONE: (636) 225-3113
EMAIL: reg72@captiveaire.com

PATENT NUMBERS

EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

HOOD INFORMATION - JOB#5740381

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)							HOOD CONSTRUCTION	HOOD CONFIG	
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP		END TO END	ROW
1	22	6030 ND-2	CAPTIVEAIRE	10' 0"	450 DEG	I	MEDIUM	185	1850			4"	14"	1850	1731	-0.684"	304 SS WHERE EXPOSED	ALONE	ALONE
2	54	6030 ND-2	CAPTIVEAIRE	8' 6"	450 DEG	I	MEDIUM	185	1572			4"	12"	1572	2002	-0.758"	304 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S)					LIGHT(S)			UTILITY CABINET(S)					FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY		
1	22	CAPTRATE SOLO FILTER	7	20"	16"	85% SEE FILTER SPEC	6	RECESSED ROUND	NO	WALL MNT	12"x36"x24"	TANK FS	4.0/4.0			YES	558 LBS
2	54	CAPTRATE SOLO FILTER	6	20"	16"	85% SEE FILTER SPEC	5	RECESSED ROUND	NO	LEFT	12"x60"x30"	TANK FS	4.0/4.0	DCV-2022	2 LIGHT 2 FAN	YES	925 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	22	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 128.00" HIGH X 122.00" LONG 304 SS VERTICAL.
		LEFT SIDESPLASH 128.00" HIGH X 78.00" LONG 304 SS VERTICAL.
		RIGHT SIDESPLASH 128.00" HIGH X 78.00" LONG 304 SS VERTICAL.
		RIGHT END STANDOFF (FINISHED) 1" WIDE 60" LONG INSULATED.
		LEFT END STANDOFF (FINISHED) 1" WIDE 60" LONG INSULATED.
		BACKSPLASH - INSIDE CORNER 80.00" HIGH X 2.00" LEG LENGTH 304 SS VERTICAL.
		BACKSPLASH - INSIDE CORNER 80.00" HIGH X 2.00" LEG LENGTH 304 SS VERTICAL.
		BALANCE DAMPERS.
		SENSOR-CV.
		RIGHT WALL AS END PANEL.
		LEFT WALL AS END PANEL.
2	54	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 128.00" HIGH X 150.00" LONG 304 SS VERTICAL.
		BALANCE DAMPERS.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 304 SS.
		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 304 SS.
		SENSOR-CV.

WALL-MOUNT UTILITY CABINET

HOOD NO	LOCATION	SIZE	UTILITY CABINET(S) FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	WEIGHT
1	WALL MNT	12"x36"x24"	TANK FS	4.0/4.0			300.00 LBS

SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

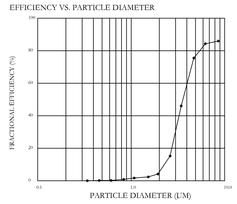
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

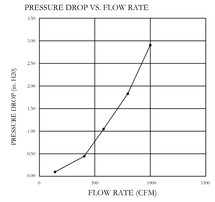
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:.
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.

SECTION 23 38 13 13

SPECIFICATIONS
TAG: Commercial Kitchen Ventilation Hoods, Listed Commercial Kitchen Hoods

PART 1 - GENERAL

1.1 SUMMARY

A. The ND2 series is a Type I, wall canopy hood for use over 450˚ cooking surface temperatures. The aerodynamic design includes a mechanical baffle and performance enhancing lip for exceptional capture and containment.

B. The hood shall have the size, shape, and performance specified on drawings.

1.2 SUBMITTALS

A. The manufacturer assumes no liability for the use or results of use from this document. Specifications are to be reviewed by the engineer to confirm the project's requirements and meet Federal, State, and Local codes and regulations.

B. As the manufacturer continues product development, it reserves the right to change design and specifications without notice.

C. The manufacturer shall supply complete computer generated submittal drawings, including hood section view(s) and hood plan view(s). These drawings must be available to the engineer, architect, and owner for their use in construction, operation, and maintenance.

1.3 QUALITY ASSURANCE

A. This hood is ETL-listed to standard UL710, ULC710, and ULC-S646 when installed in accordance with these installation instructions and National Fire Protection Association Standard NFPA 96, Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations."

B. Built-in compliance with NSF/ANSI Standard 2.

C. The hood shall be ETL Listed as:

1. "Exhaust Hood Without Exhaust Damper."
2. ETL Sanitation Listed and built in accordance with NFPA 96.
3. The ETL label shall list temperature rating(s) and minimum CFM/ft rating(s).

1.4 WARRANTY

A. All units shall be provided with the following standard warranty:

1. This equipment is warranted to be free from defects in materials and workmanship, under normal use and service, for a period of 2-years from date of shipment.

B. The manufacturer shall not be liable for incidental and consequential losses and damages potentially attributable to malfunctioning equipment. Should any part of the equipment prove to be defective in material or workmanship within the 2-year warranty period, upon examination by the manufacturer, such part will be repaired or replaced by manufacturer at no charge. The buyer shall pay all labor costs incurred in connection with such repair or replacement. Equipment shall not be returned without manufacturer's prior authorization, and all returned equipment shall be shipped by the buyer, freight prepaid to a destination determined by the manufacturer.

C. Refer to Manufacturer's Operation, Installation, and Maintenance (OIM) Manual for detailed descriptions of what is/is not covered and contact information for warranty claims.

PART 2 - PRODUCTS

2.1 GENERAL

A. Construction shall be dependent on the structural application to minimize distortion and other defects. All seams, joints, and penetrations of the hood enclosure to the lower outermost perimeter, which directs and captures grease-laden vapor and exhaust gases, shall have a liquid-tight continuous external weld in accordance with NFPA 96.

B. Duct sizes, CFM, and static pressure requirements shall be as shown on drawings. Static pressure requirements shall be precise and accurate; air velocity and volume information shall be accurate within 1-ft increments along the length of the ventilator.

2.2 CONSTRUCTION

A. Construction shall be type 304 stainless steel.

B. Double wall insulated front to eliminate condensation and increase rigidity on wide sizes. The insulation shall have a flexural modulus of 475 EI, meet UL 181 requirements and be in accordance with NFPA 90A and 90B.

C. Hood shall be equipped with a minimum of four connections for hanger rods. Hood lengths greater than 12'will have added hangers.

D. Exhaust duct collar to be 4"high with flange.

E. The grease drain system shall be an enclosed integral part of the hood back and have slopes with an exposed, removable 1/2 grease cup to facilitate cleaning.

F. An integral baffle to direct grease laden vapors toward the exhaust filter bank.

G. Hood shall be furnished with UL classified filters, supplied in size and quantity as required by ventilator.

H. All seams shall be welded and have stainless steel on exposed surfaces.

2.3 LIGHTING

A. Recessed round LED fixture and LED light, 3500K Warm output.

2.4 FILTERS

A. Stainless Steel Captrate Solo filter with hook, ETL Listed. Particulate capture efficiency: 85% efficient at 9 microns, 76% efficient at 5 microns.

2.5 OPTIONS

A. Fire Suppression System: UL 300 fire suppression system.

B. Hood and/or Wall Mounted Utility Cabinet - Cabinet can store listed fire suppression system, listed components, pre-wired electrical controls.

2.6 ACCESSORIES

A. Balance Damper - Used to manually balance exhaust flow rate. Installed in hood plenum.

B. End Panel(s) maximize hood performance and eliminate the effects of cross drafts in the kitchen. Units constructed of stainless steel and sized according to hood width and cooking equipment. Exposed edges hemmed for safety and rigidity. Selected panels:

1. Vertical End Panel
2. Wall as End Panel

C. Splash panel(s) selected:

1. Backsplash
2. Backsplash - Inside Corner
3. Left Sidesplash
4. Right Sidesplash

D. Standoff(s) selected:

1. Left End Standoff
2. Right End Standoff

E. Wrapper(s) may be installed from the factory or field installed. Wrapper(s) selected:

1. Wrapper

F. Miscellaneous option(s) selected:

1. Sensor-Capture Volume -Duct stat installed in the capture volume of the hood.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and conditions under which the system is installed. Do not proceed with work until unsatisfactory conditions have been corrected in a manner acceptable to Installer.

3.2 INSTALLATION

A. Install in accordance with manufacturer's instructions, drawings, written specifications, manufacturer's installation manual, and all applicable building codes.

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PECKHAM GUYTON ALBERS & VIETS, INC.
350 North Broadway, Suite 1000, St. Louis, MO 63102
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DENNIS G. GLORE, INC.
Food Facilities Consultants
P.O. Box 222
Eureka, MO 63025
Phone: (636) 938-7867 Fax: (636) 938-6596

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REVISIONS

	DESCRIPTION	DATE:
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www.captiveaire.com

SeaWorld San Diego - Shipwreck Cafe
500 Sea World Drive,
San Diego, CA, 92109

DATE: 4/27/2023

DWG.#: 5740381

DRAWN BY: JB-72

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

MASTER DRAWING

SHEET NO. 1

REVISION SCHEDULE

NO	DESCRIPTION	DATE
3	Revision 02	05/10/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

Foodservice Equipment Hood Drawings

DATE 12/09/2022

DR MDG | CK MDG

PGAV 64115-00 | CLIENT SEA

SHEET NUMBER

FS300

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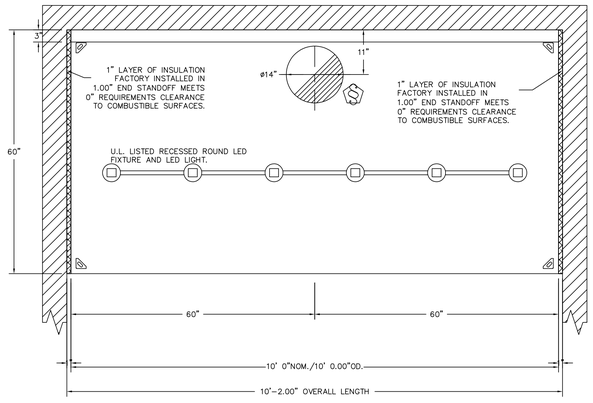
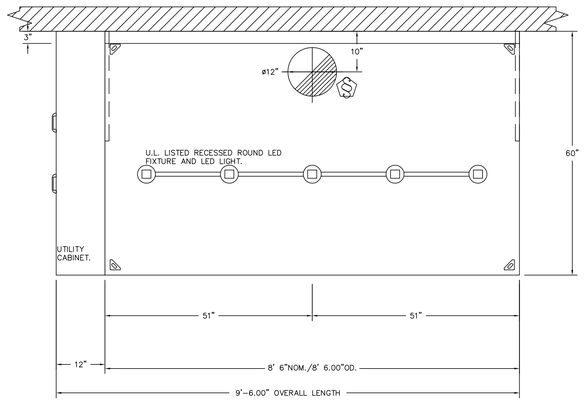


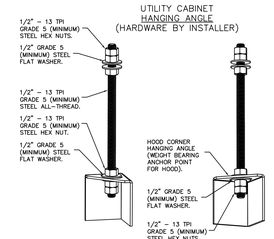
PLAN VIEW – HOOD #1 (22)
10' 0.00" LONG 6030ND-2

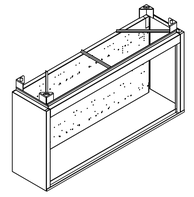


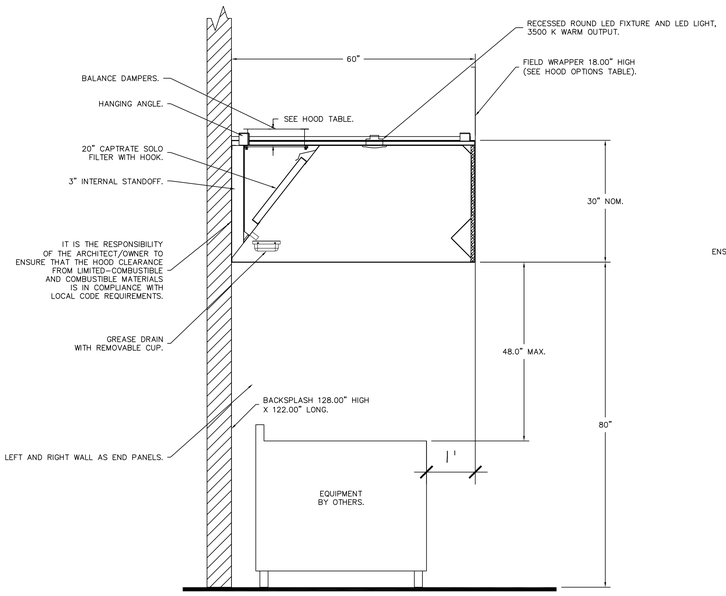
PLAN VIEW – HOOD #2 (54)
8' 6.00" LONG 6030ND-2

WALL-MOUNT UTILITY CABINET
ASSEMBLY INSTRUCTIONS

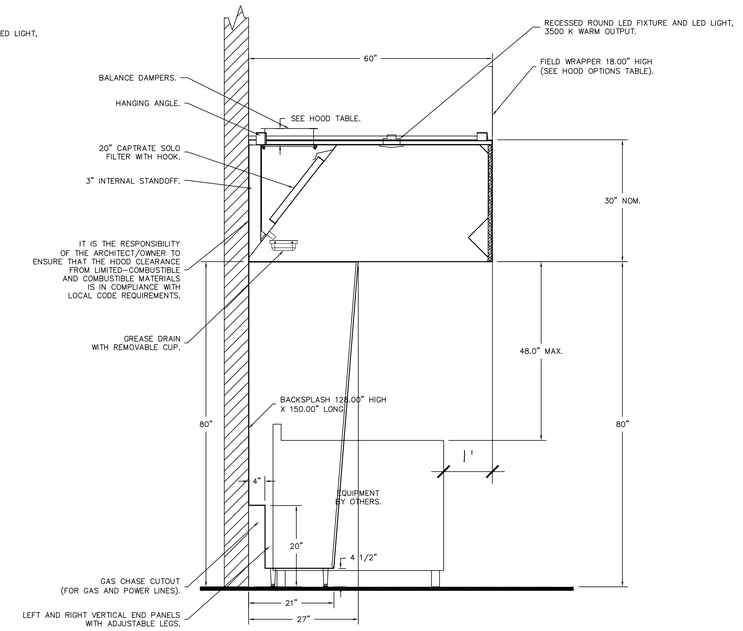
HANGING ANGLE MUST BE SUPPORTED WITH 1/2" – 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" – 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH UTILITY CABINET HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.







SECTION VIEW – MODEL 6030ND-2
HOOD – #1 (22)



SECTION VIEW – MODEL 6030ND-2
HOOD – #2 (54)

REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		

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St. Louis Office
16024 Manchester Rd., Suite 233, Ellisville, MO, 63011 PHONE: (636) 225-3113 FAX: (919) 227-5939 EMAIL: reg72@captiveaire.com
www.captiveaire.com

SeaWorld San Diego – Shipwreck Cafe
500 Sea World Drive,
San Diego, CA, 92109

DATE: 4/27/2023

DWG.#: 5740381

DRAWN BY: JB-72

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

MASTER DRAWING

SHEET NO. 2

PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
200 North Broadway, Suite 1000, St. Louis, MO 63102
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DGG
DENNIS G. GLORE, INC.
Food Facilities Consultants
P.O. Box 233
Eureka, MO 63025
Phone: (636) 938-7567 Fax: (636) 938-6596

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Theming Design Intent:
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REVISION SCHEDULE		
NO	DESCRIPTION	DATE
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SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

Foodservice Equipment Hood Drawings

DATE	12/09/2022
DR: MDG	CK: MDG
PGAV: 64115-00	CLIENT: SEA
SHEET NUMBER	FS301

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FIRE SYSTEM INFORMATION – JOB#5740381

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1	23	TANK FS	4.0/4.0	28	WALL UTILITY CABINET LEFT	N/A
2		TANK FS	4.0/4.0	28	FIRE CABINET LEFT	LEFT, HOOD 2

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1	23	SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS
2		SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER – PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1	23	0 – 0 – TANK FIRE SUPPRESSION POST–DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 – 0 – TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0 – 0 – 12–F28021–32144–0T–360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360˚F.	1	0
		0 – 0 – 361091 3/8" BRASS PLUG.	3	0
		0 – 0 – 79425 3/8" NPT FEMALE TO 1/2" MALE PROPRESS ADAPTER.	3	0
		0 – 0 – 87–120042–001 SECONDARY ACTUATOR VALVE (SVA) – SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87–120045–001 HOSE, SECONDARY ACTUATOR HOSE, 7.5" BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87–300001–001 TANK – PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	0
		0 – 0 – 87–300330–001 PRIMARY ACTUATOR KIT (PAK) – ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87–300152–001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	8	0
		0 – 0 – 9055455PC PRO PRESS 1/2 PRESS X PRESS 90 ELBOW LD.	3	0
		0 – 0 – 9097200PC PRO PRESS PC611 1/2 PRESS TEE LD.	6	0
		0 – 0 – 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	4	0
		0 – 0 – A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0 – 0 – BI145 3/8" BLACK IRON 90 ELL.	2	0
		0 – 0 – DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 – 0 – TANK STRAP TANK STRAP – USED FOR TANK FIRE SUPPRESSION.	2	0
		0 – 0 – TFS–UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 – 0 – WK–283952–000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	2	0
		16 – 16 – 79210 1/2" X 3/8" NPT MALE ADAPTER, VIEGA.	6	0
		16 – 16 – OL–F NOZZLE – TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME–PLATED PIPE)– 4 FLOW POINTS.	6	0
		26 – 26 – QSA–3/8 QUIK SEAL – 3/8" (UL).	6	0
		34 – 34 – A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT. RED COLOR.	1	0
2		0 – 0 – TANK FIRE SUPPRESSION POST–DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 – 0 – TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0 – 0 – 12–F28021–32144–0T–360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360˚F.	1	0
		0 – 0 – 87–120042–001 SECONDARY ACTUATOR VALVE (SVA) – SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87–120045–001 HOSE, SECONDARY ACTUATOR HOSE, 7.5" BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	1	0
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		0 – 0 – 87–300152–001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	8	0
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		0 – 0 – A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	1	0
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		34 – 34 – A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT. RED COLOR.	1	0

NOTES
– FIELD PIPE DROPS AS SHOWN
PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
– FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD–INSTALLED.
– SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD–INSTALLED.
– RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
– OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
– IF APPLICABLE, EXTENDED PRE–PIPED DROPS ARE SHIPPED LOOSE.
– FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

– APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

– THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

– OL–F NOZZLE PART NUMBER REPLACES 3070–3/8H–10–SS

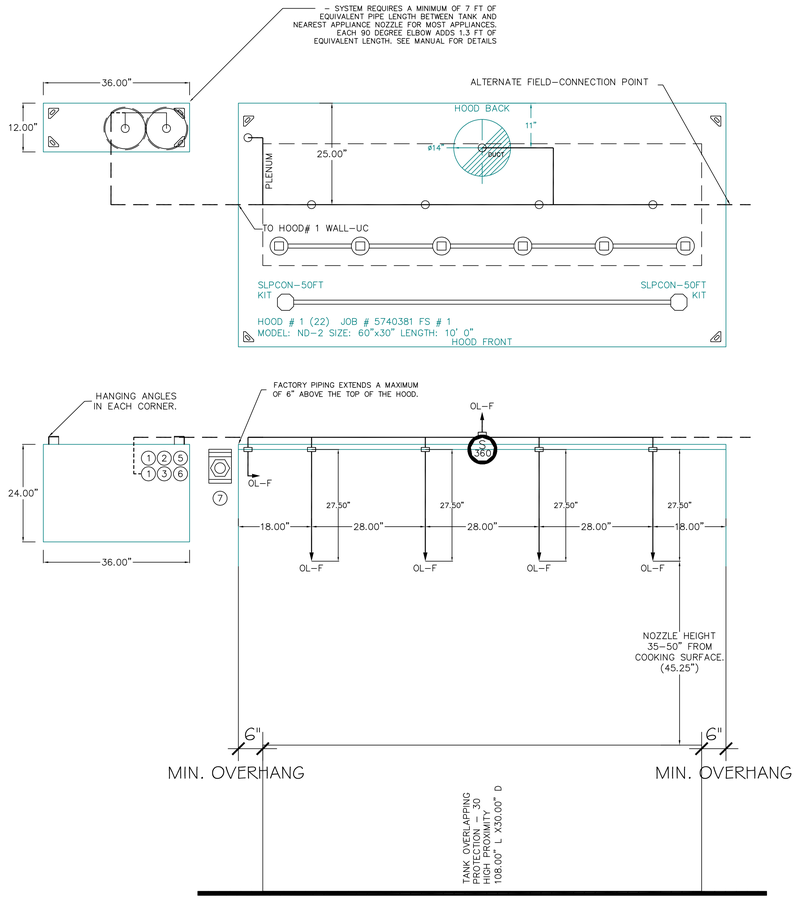
JOB #: 5740381.
JOB NAME: SEAWORLD SAN DIEGO – SHIPWRECK CAFE.

SYSTEM SIZE: TANK–SP–2–WC TOTAL FP REQUIRED: 28.
HOOD # 1 10' 0.00" LONG x 60" WIDE x 30" HIGH.
RISER # 1 SIZE: 1¼" DIA.
HOOD # 1 METAL BLOW–OFF CAPS INCLUDED.

– HEAVY–DUTY APPLIANCES (RATED 600˚F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
– MEDIUM TO LIGHT–DUTY APPLIANCES (RATED 450˚F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

LEGEND – FIRE CABINET TANK SYSTEM

1 4 GALLON TANK.
2 PRIMARY ACTUATOR RELEASE.
3 SECONDARY ACTUATOR RELEASE.
4 PRESSURE SUPERVISION SWITCH.
5 PRIMARY HOSE ASSEMBLY.
6 SECONDARY HOSE ASSEMBLY.
7 REMOTE MANUAL ACTUATION DEVICE.

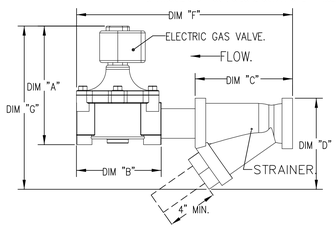


GAS VALVE FOR FS#1, FS#2

GAS VALVES AND STRAINERS																	
GAS VALVE SIZING						GAS VALVE DIMENSIONS						INSTALLATION	PART NUMBERS				
TYPE	SIZE	VOLTAGE	MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "F"	DIM "G"	MOUNTING ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER KIT	
ELECTRICAL	2"	120 VAC	0 PSI (0 IN.W.C.)	5 PSI (138 IN.W.C.)	2,940,500 BTU/HR	1,908,048 BTU/HR	7–5/8"	6–3/8"	7–1/4"	7–13–16"	15–5/8"	13–15/16"	HORIZONTAL/ VERTICAL	8214280	4417K68	(SC)EGVA2	

ALL GAS VALVES/STRAINERS
PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

CALCULATIONS
TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP
NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP$^{0.5}$
TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY
NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)$^{0.5}$.



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DWG.#: 5740381

DRAWN BY: JB–72

SCALE: 3/4" = 1'–0"

MASTER DRAWING

SHEET NO. 3

REVISION SCHEDULE		
NO	DESCRIPTION	DATE
3	Revision 02	05/10/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

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DATE	12/09/2022	
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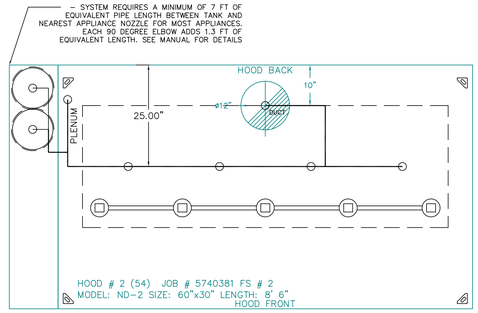

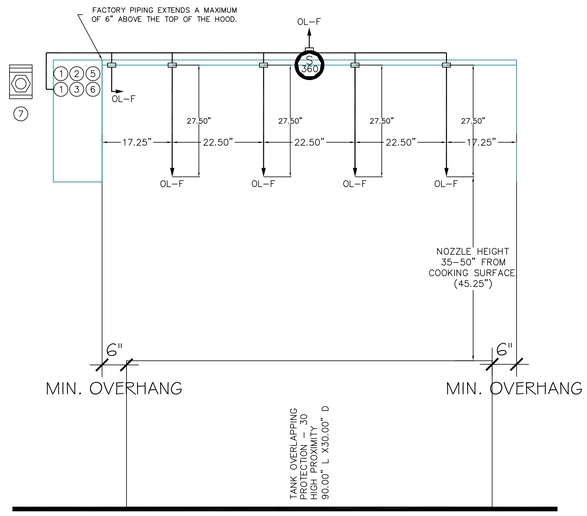

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– THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

– OL–F NOZZLE PART NUMBER REPLACES 3070–3/8H–10–SS

JOB #: 5740381.
JOB NAME: SEAWORLD SAN DIEGO – SHIPWRECK CAFE.

SYSTEM SIZE: TANK–SP–2 TOTAL FP REQUIRED: 28.
HOOD # 2 8' 6.00" LONG x 60" WIDE x 30" HIGH.
RISER # 1 SIZE: 12" DIA.
HOOD # 2 METAL BLOW–OFF CAPS INCLUDED.

– HEAVY–DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
– MEDIUM TO LIGHT–DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

LEGEND – FIRE CABINET TANK SYSTEM

1 4 GALLON TANK.
2 PRIMARY ACTUATOR RELEASE.
3 SECONDARY ACTUATOR RELEASE.
4 PRESSURE SUPERVISION SWITCH.
5 PRIMARY HOSE ASSEMBLY.
6 SECONDARY HOSE ASSEMBLY.
7 REMOTE MANUAL ACTUATION DEVICE.

SECTION 21 23 00
WET– CHEMICAL FIRE–EXTINGUISHING SYSTEMS
TAG: TANK Fire Suppression

PART 1 – GENERAL

1.1 SUMMARY

A. TANK Fire Suppression is a pre–engineered, stored–pressure wet chemical solution extinguishing system.

1.2 SUBMITTALS

A. The manufacturer assumes no liability for the use or results of use from this document. Specifications are to be reviewed by the engineer to confirm the requirements of the project and meet Federal, State, and Local codes.

B. As the manufacturer continues product development, it reserves the right to change design and specifications without notice.

1.3 QUALITY ASSURANCE

A. TANK Fire Suppression System shall be UL & ULC listed in accordance with UL300, UL1254, ULCORD–C1254.6.

B. Microprocessor–based control board shall be ETL Listed to UL Standard 864 and CAN/ ULC–S527–11.

C. TANK Fire Suppression System intended for installation and for use in accordance with the National Fire Protection Association Standards:

1. Wet Chemical Extinguishing Systems, NFPA 17A
2. National Electrical Code, NFPA 70
3. National Fire Alarm & Signaling Code, NFPA 72

D. New York City and FDNY approved under COA# 5870.

E. California State Fire Marshal (CFSM), Listing No. 7085–2199:0502.

1.4 WARRANTY

A. All units shall be provided with the following standard warranties:

1. TANK Fire Suppression System is warranted to be free from defects in materials and workmanship, under normal use and service, for a period of 60–months from date of shipment.

B. Warranty does not cover consumable products such as batteries and nitrogen.

C. The manufacturer shall not be liable for incidental and consequential losses and damages potentially attributable to malfunctioning equipment. Should any part of the equipment prove to be defective in material or workmanship within the 60–month warranty period, upon examination by the manufacturer, such part will be repaired or replaced by manufacturer at no charge. The buyer shall pay all labor costs incurred in connection with such repair or replacement. Equipment shall not be returned without manufacturer's prior authorization, and all returned equipment shall be shipped by the buyer, freight prepaid to a destination determined by the manufacturer.

D. Refer to Manufacturer's Operation, Installation, and Maintenance (OIM) Manual for detailed descriptions of what is/is not covered and contact information for warranty claims.

PART 2 – PRODUCTS

2.1 GENERAL

A. A pre–engineered, fixed pipe, automatic wet chemical agent fire suppression system for protection of all hazard areas associated with cooking operations, including exhaust hoods, plenums, ductwork, and cooking appliances.

2.2 COMPONENTS

A. Exhaust hood fire system components to be factory installed.

B. Cylinder and Valve Assembly

1. The cylinders shall have a tin–nickel alloy plated brass valve with pressure gauge.
2. Wet chemical agent shall be contained in one or more stored pressure DOT/TC rated steel cylinder and valve assemblies.
3. Each cylinder is factory–filled with liquid fire suppressant and pressurized to 200 PSIG at 70°F.
4. Maximum cylinder flow points = 20.

C. Distribution Nozzles

1. Nozzles shall be located to protect the exhaust ducts, plenums, and all cooking appliances requiring protection.
2. All nozzles shall be equipped with a metal blow off cap. The cap prevents contamination from entering the pipe network and is designed to pop–off upon system discharge, allowing agent to flow to the protected hazard area.
3. All nozzles shall incorporate a stamped part number to easily identify nozzle type.

D. Distribution System

1. The distribution system shall consist of Copper, Schedule 40 black iron, chrome–plated or stainless–steel pipe and fittings. All exposed piping and fittings must be chrome–plated or stainless steel.
2. Fittings shall be minimum class 150. Galvanized fittings shall not be used.

E. Suppression System

1. The system control equipment shall be capable of all functions associated with automatically and manually discharging the wet chemical agent from all cylinder and valve assemblies, including automatic shutdown of the heat source or fuel and electrical power to all protected areas upon system discharge.
2. Liquid Fire Suppressant shall be Aqueous Potassium Carbonate (APC).
3. All mechanical components of the actuator kit shall be enclosed.
4. The actuator kit shall be capable of automatic or manual activation means.
5. Supervisory Pressure Switch added to monitor operating system pressure.
6. For manual activation, an electrically operated manual release shall be used to actuate the system manually.
7. For automatic activation, the system will be activated by a Firestat (heat) detector.

F. Electrical

1. Electrical Division to provide shunt trip breakers at main power panel, or disconnects, as designated by the Electrical Engineer; interconnection provided at hood control panel for the signal to shut down all electricity in and under the exhaust hood. Shunt trips/disconnects to accomplish shut off of electricity in the event of fire system activation by others.
2. Printed circuit board with microprocessor–based controller that provides all the necessary monitoring, timing, and supervision functions required for the reliable operation of the fire system.
3. Independent supervised loops incorporate redundancy and fault detection.
4. Real–time cloud–based monitoring connection provided with system by ownership.
5. Primary power supply, with battery backup for power loss.
6. All wiring must be in accordance to NFPA 70 and the Authority Having Jurisdiction (AHJ).
7. Electric gas valve provided for equipment below exhaust hood. Coordinate size and installation with Plumbing Division.
8. All wiring is to be in accordance with the applicable manufacturer's instructions for the fire alarm control panel, gas shut–off valve, manual reset relay, and contractor supplied shut–off devices.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Examine areas and conditions under which the system is installed. Do not proceed with work until unsatisfactory conditions have been corrected in manner acceptable to Installer.

3.2 APPLICATION

A. Wet chemical–based fire suppression system for use in commercial kitchens. It can be mounted in the integral cabinet located at the end of the hood or offered as a wall mount package.

3.3 INSTALLATION

A. As part of this item, provide wall mounted type K handheld portable fire extinguisher, placard, and mounting bracket as required in the immediate vicinity of each cooking area, per NFPA–96 and NFPA–10. Additional fire extinguishers as required in the kitchen area are to be specified by the Architect and provided by the General Contractor.

B. Install in accordance with manufacturer's instructions, drawings, written specifications, manufacturer's installation manual, and all applicable building codes.

C. Six–month and twelve–month inspections, servicing, and replacement of components as per NFPA 96 to be provided by the General Contractor or Owner.

REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		
5		

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www.captiveaire.com
St. Louis Office
16024 Manchester Rd., Suite 233, Ellisville, MO, 63011 PHONE: (636) 225-3113 FAX: (919) 227-5939 EMAIL: reg72@captiveaire.com

SeaWorld San Diego – Shipwreck Cafe
500 Sea World Drive,
San Diego, CA, 92109

DATE: 4/27/2023

DWG.#: 5740381

DRAWN BY: JB–72

SCALE: 3/4" = 1'–0"

MASTER DRAWING

SHEET NO. 4

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DGG
DENNIS G. GLORE, INC.
Food Facilities Consultants
P.O. Box 722
Eureka, MO 63025
Phone: (636) 938-7887 Fax: (636) 938-6596

Accessibility for Persons with Disabilities:
This drawing complies layouts and elements required by the Americans with Disabilities Act for Persons. Contractor shall provide verification and certification of Compliance with the applicable accessibility regulations.

Theming Design Intent:
The theming scope of work shown on these drawings is for design intent. Outlines, sketches, drawings, picture references, material specifications, and notes on this document are for the express purpose of location, general identification, adjacency, and coordination. Fabrication, assembly, compliance, manufacture, installation, and safety of operation are to be provided by the Contractor including engineering documentation signed and sealed by a qualified Engineer licensed to practice by the authority having jurisdiction. The Architect/Designer 's review of submittals is for the purpose of checking for conformance with information given and the design concept expressed in the Contract Documents.

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
3	Revision 02	05/10/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

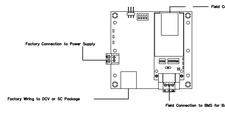
Foodservice Equipment Hood Drawings

DATE	12/09/2022
DR: MDG	CK: MDG
PGAV: 64115-00	CLIENT: SEA
SHEET NUMBER	FS303

12/9/2022 12:41:09 PM
Autodesk Docs://64115-00 SWSD Shipwreck Cafe/64115-00_SWSD_Shipwreck_AR_R22.rvt

ELECTRICAL PACKAGE – JOB#5740381

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	ϕ	HP	VOLT	FLA
1		DCV-2022	UTILITY CABINET LEFT	02 – FACE MOUNT RIGHT SIDE OF HOOD	2 LIGHT	SMART CONTROLS DCV					
				HOOD # 1	2 FAN						



BACNET Interface for DCV and SC Packages

BACNET Interface for Hood Control Panel Specifications:
- Microprocessor-based Hood Controls support communications to an external Building Management System through a BTL listed gateway (BACNET IP and MS/TP).
- The Hood Control Panel communicates real time data from sensors and equipment status to the Building Management System. The Hood Control Panel also allows the Building Management System to control fans, lights and wash cycles.
- The monitoring and controlling points for Hood Smart Controls and Demand Control Ventilation Systems are listed below:

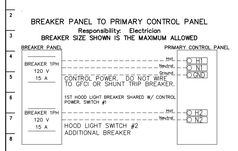
MONITORING AND CONTROL POINTS LIST

DCV Packages	*Function*
Room Temperature	*MONITOR*
Duct Temperature(s)	*MONITOR*
MUA Discharge Temperature	*MONITOR*
Kitchen RTU Discharge Temperature	*MONITOR*
Fan Speed	*MONITOR*
Fan Amperage	*MONITOR*
Fan Power	*MONITOR*
VFD Faults	*MONITOR*
Controller Faults	*MONITOR*
Fan Faults	*MONITOR*
Fan Status	*MONITOR*
PCU Faults	*MONITOR*
Fire Condition	*MONITOR*
CORE Fire System	*MONITOR*
Building Pressures	*MONITOR*
Pans Button(s)	*MONITOR & CONTROL*
Lights Button(s)	*MONITOR & CONTROL*
Wash Button	*MONITOR & CONTROL*

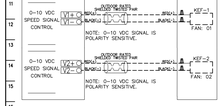
SC Packages	*Function*
Room Temperature(s)	*MONITOR*
Duct Temperature(s)	*MONITOR*
MUA Discharge Temperature	*MONITOR*
Kitchen RTU Discharge Temperature	*MONITOR*
Controller Faults	*MONITOR*
Fan Faults	*MONITOR*
Fan Status	*MONITOR*
PCU Faults	*MONITOR*
PCU Filter Clog Percentages	*MONITOR*
Fire Condition	*MONITOR*
CORE Fire System	*MONITOR*
Building Pressures	*MONITOR*
Fans Button(s)	*MONITOR & CONTROL*
Lights Button(s)	*MONITOR & CONTROL*
Wash Button	*MONITOR & CONTROL*

JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE	DESCRIPTION OF OPERATION:
5740381	DCV–2022		INSTALL	Demand Control Ventilation, 4 module set of Exhaust Fans, Exhaust up to Five Lights out in Five Fans modules based on duct temperature and CO2 sensors. A variable frequency drive (VFD) is required for use with VFD, load/unload sensors and proper load sizing for field installation-verify distance between VFD and motor. additional cost could apply if distance exceeds 50 feet.
	JOB NAME SeaWorld San Diego – Shipwrec...	DATE 11/21/2022	DWG NO EOP #1–1	

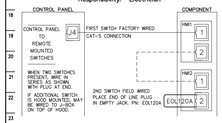
BREAKER PANEL TO PRIMARY CONTROL PANEL
Responsibility: Electrician
BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED

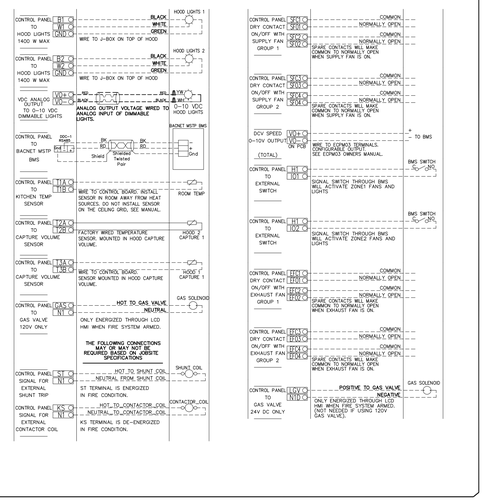


CONTROL PANEL TO FANS
Responsibility: Electrician



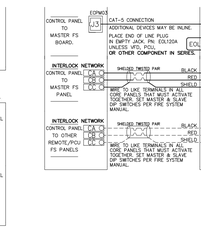
CONTROL PANEL TO ACCESSORY ITEMS
Responsibility: Electrician





JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE	DESCRIPTION OF OPERATION:
5740381	DCV–2022		INSTALL	Demand Control Ventilation, 4 module set of Exhaust Fans, Exhaust up to Five Lights out in Five Fans modules based on duct temperature and CO2 sensors. A variable frequency drive (VFD) is required for use with VFD, load/unload sensors and proper load sizing for field installation-verify distance between VFD and motor. additional cost could apply if distance exceeds 50 feet.
	JOB NAME SeaWorld San Diego – Shipwrec...	DATE 11/21/2022	DWG NO EOP #1–2	

CONTROL PANEL TO FIRE SYSTEM
Responsibility: ALARM CONTRACTOR



CONTROL PANEL TO FIRE SYSTEM
Responsibility: CERTIFIED INSTALLER

JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE	DESCRIPTION OF OPERATION:
5740381	DCV–2022		INSTALL	Fire System #1 TANK FS – 4.0/4.0, Tank-based Fire Protection System equipped with Electronic Detection utilizing CORE board as a Listed Release Mechanism. Installed in Hood Utility Cabinet with integral hood prewire panel.
	JOB NAME SeaWorld San Diego – Shipwrec...	DATE 11/21/2022	DWG NO EOP #1–3	

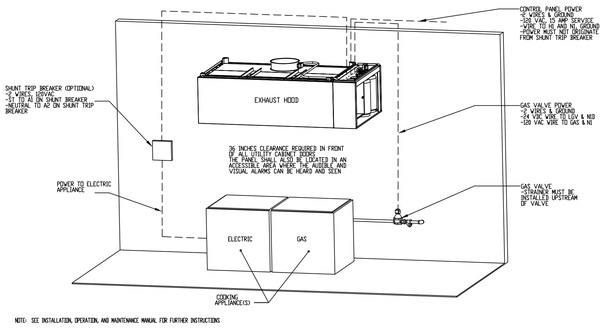
TANK PROTECTION ELECTRICAL DETAIL

02/10/2021 Rev. 2

FS–2: MASTER

ELECTRICIAN
1. WIRE MAIN CONTROL PANEL PER INCLUDED SCHEMATIC
2. WIRE ALL FANS PER INCLUDED SCHEMATIC
3. WIRE SHUNT TRIP BREAKER (OPTIONAL)
4. WIRE UDS APPLIANCE KILL SWITCH, IF EQUIPPED (OPTIONAL)
5. WIRE GAS VALVE

ELECTRICAL CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION ON DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & N1	BREAKER COIL A1 & A2	120 VAC	< 4 AMPS	ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	HI & N1 + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
UDS APPLIANCE KILL SWITCH (OPTIONAL)	KTS & N1	KTS & N1	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE 120VAC ANSUL AUTOMAN (OPTIONAL)	AUL, AU2	SOLENOID	120 VAC	< 6 AMPS	120V TO AUL, AU2 TO ANSUL ELECTRIC AUTOMAN, ANSUL SOLENOID TO NEUTRAL
GAS VALVE	LGV & N01 OF 24 VDC/ GAS & NI (IF 120 VAC)	RED/RED/GREEN	24 VDC OR 120 VAC	< 10 AMPS	IF 24 VDC – 2 WIRES & GROUND, N01 TO RED, LGV TO RED, AND GREEN TO GROUND IF 120 VAC – 2 WIRES & GROUND GAS TO RED, NI TO RED, AND GREEN TO GROUND



NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE	DESCRIPTION OF OPERATION:
5740381	DCV–2022		INSTALL	Fire System #1 TANK FS – 4.0/4.0, Tank-based Fire Protection System equipped with Electronic Detection utilizing CORE board as a Listed Release Mechanism. Installed in Hood Utility Cabinet with integral hood prewire panel.
	JOB NAME SeaWorld San Diego – Shipwrec...	DATE 11/21/2022	DWG NO EOP #1–4	

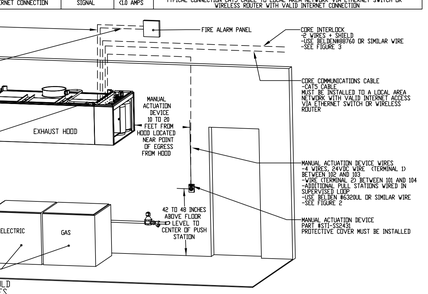
TANK PROTECTION LOW-VOLTAGE DETAIL

02/10/2021 Rev. 2

FS–2: MASTER

ALARM CONTRACTOR:
1. WIRE MANUAL ACTUATION DEVICE(S), REMOTE FIRESTAT(S), CORE INTERLOCK(S), FIRE SENSOR(S) AND FIRE ALARM CONTACTS
2. COMPLETE FINAL HOOKUP OF SYSTEM
3. VERIFY FINAL FIRE SYSTEM TEST

ALARM CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION ON DEVICE	VOLTAGE	AMPERAGE	COMMENTS
MANUAL ACTUATION DEVICE(S)	103 AND 104 103 AND 103	1 & 2	24 VDC	< 1.0 AMPS	WIRE MANUAL ACTUATION DEVICE TERMINAL 1 BETWEEN CORE PANEL TERMINALS 103 AND 103 WIRE MANUAL ACTUATION DEVICE TERMINAL 2 BETWEEN CORE PANEL TERMINALS 104 AND 104 JUMPER 103 TO 104 AND 103 TO 103 IF NO MANUAL ACTUATION DEVICE IS INSTALLED
MANUAL ACTUATION DEVICE COVER	N/A	N/A	N/A	N/A	MANUAL ACTUATION DEVICE COVER MUST BE INSTALLED
REMOTE FIRESTAT SENSOR(S)	24 AND 24 23 AND 23	BLACK AND WHITE	24 VDC	< 1.0 AMPS	SURFACE MOUNTED USE WITH OTHER FIRESTATS(S) WIRE FIRE SENSOR BLACK WIRE BETWEEN CORE PANEL TERMINALS 24 AND 24 WIRE FIRE SENSOR BLACK WIRE BETWEEN HEAD CORE PANEL TERMINALS 23 AND 24 HIGH TEMP (356°F) B342FL6427 (UNIT) & B342FL6427B (BLK)WIRE OR SIMILAR ONLY, 3 RUN OVER TOP OF HOOD, OTHERWISE BELDEN 84300UL OR SIMILAR TEFLON RATED WIRE. SEE FIGURE 1
FIRE ALARM CONTACT	AL1, AL2	VARIES	50V MAX (AC/DC)	UP TO 1 AMP	FIRE ALARM RELAY CONTACTS FOR BUILDING FIRE ALARM LOCATED IN THE CORE ELECTRICAL CONTROL PANEL
CORE INTERLOCK(S)	ILA, ILB, ILC	ILA, ILB, ILC	RS-485 COMMUNICATIONS SIGNAL		CORE SYSTEM (1) ILA TO CORE SYSTEM (2) ILA CORE SYSTEM (1) ILB, TO CORE SYSTEM (2) ILB CORE SYSTEM (1) ILC, TO CORE SYSTEM (2) ILC USE BELDEN 8870AD OR SIMILAR WIRE
TROUBLE CONTACT	TBC, TBL, TDK	VARIES	MAX 120 VAC	UP TO 6 AMPS	WIRE TO TBL & TBC NORMALLY OPEN CONTACT, CLOSES IN TROUBLE CONDITION
CORE COMMUNICATIONS CABLE	RJ-45 Jack	INTERNET CONNECTION	SIGNAL	<1.0 AMPS	TYPICAL CONNECTION CATS CABLE TO LOCAL AREA NETWORK VIA ETHERNET SWITCH OR WIRELESS ROUTER WITH VALID INTERNET CONNECTION



ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

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DENNIS G. GLORE, INC.
Food Facilities Consultants
P.O. Box 220
Eureka, MO 63025
Phone: (636) 938-7857 Fax: (636) 938-6090

Accessibility for Persons with Disabilities:
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REVISIONS

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St. Louis Office
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SeaWorld San Diego – Shipwreck Cafe
500 Sea World Drive,
San Diego, CA, 92109

DATE: 4/27/2023

DWG.#: 5740381

DRAWN BY: JB–72

SCALE: 3/4" = 1'–0"

MASTER DRAWING

SHEET NO. 5

REVISION SCHEDULE		
NO	DESCRIPTION	DATE
3	Revision 02	05/10/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

Foodservice Equipment Hood Drawings

DATE 12/09/2022
DR MDG CK MDG
PGAV 64115-00 CLIENT SEA
SHEET NUMBER

FS304

12/6/2022 12:41:09 PM
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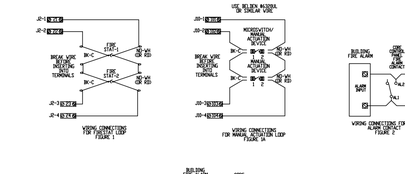
JOB NO 5740381 | MODEL NUMBER DCV-2022 | JOB NAME SeaWorld San Diego – Shipwrec... | Shown BY | DATE 11/21/2022 | SCHEMATIC TYPE INSTALL | DWG NO ESP #1-7

DESCRIPTION OF OPERATION:
The System #1 1006 FS – 4.0/4.5 Tank-level Fire Protection System equipped with Electronic Detection utilizing CORE board as a Listed Release Actuation. Installed in Wall Mounted Utility Cabinet separate from proofs. Includes 10" low hooding shroud hoods, ductwork, and hardware for connection to main ground piping.

TANK PROTECTION LOW-VOLTAGE FIGURES

02/25/2021 Rev. 17

FS-2: MASTER



VIRING CONNECTIONS FOR STEP START LOOP
FIGURE 1

VIRING CONNECTIONS FOR MANUAL ACTUATION LOOP
FIGURE 1A

VIRING CONNECTIONS FOR FIRE ALARM CONTACT
FIGURE 2

VIRING CONNECTIONS FOR CORE INITIATION
FIGURE 3

VIRING CONNECTIONS FOR TROUBLE CONTACT
FIGURE 4

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

JOB NO 5740381 | MODEL NUMBER DCV-2022 | JOB NAME SeaWorld San Diego – Shipwrec... | Shown BY | DATE 11/21/2022 | SCHEMATIC TYPE INSTALL | DWG NO ESP #1-8

DESCRIPTION OF OPERATION:
The System #1 1006 FS – 4.0/4.5 Tank-level Fire Protection System equipped with Electronic Detection utilizing CORE board as a Listed Release Actuation. Installed in Wall Mounted Utility Cabinet separate from proofs. Includes 10" low hooding shroud hoods, ductwork, and hardware for connection to main ground piping.

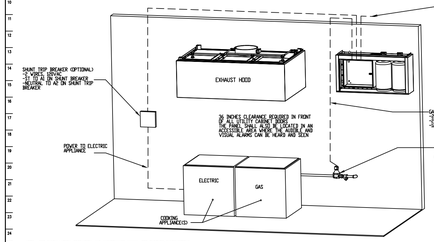
WALL MOUNT UTILITY CABINET CAS ELECTRIC WET CHEMICAL PROTECTION ELECTRICAL DETAIL

02/21/2021 Rev. 02

FS-1: SLAVE

ELECTRICIAN
1. USE MAIN CONTROL PANEL FOR 24VDC LOCK SOLENOID.
2. USE ALL CAPS FOR INCLUDED SCHEMATIC
3. USE 18 AWG WIRE FOR ALL 24VDC CIRCUITS.
4. USE CORE INTERFACE KILL SWITCH IF EQUIPPED (OPTIONAL)
5. USE GAS VALVE.

ELECTRICAL CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & NI	BREAKER COIL ON IL AND	120 VAC	< 4 AMPS	ST TO #1 ON SHUNT BREAKER COIL, AND NEUTRAL TO #2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	HL & NI + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
UDS APPLIANCE KILL SWITCH (OPTIONAL)	KTS & NI	KTS & NI	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE 120VAC AHUSA, AUTOMAN (OPTIONAL)	AUL, AU2	SOLENOID	120 VAC	< 4 AMPS	120V TO AUL AU2 TO AHUSA, ELECTRIC AUTOMAN, AHUSA, SOLENOID TO NEUTRAL
GAS VALVE	120 V RED OF 24 VDC GAS & NI OF 120 VAC	RED/RED/GREEN	24 VDC OR 120 VAC	< 1.8 AMPS	IF 120 VAC + 2 WIRES & GROUND GO TO RED 1/C TO RED, AND GREEN TO GROUND IF 120 VAC + 2 WIRES & GROUND GO TO RED NI TO RED AND GREEN TO GROUND



NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

JOB NO 5740381 | MODEL NUMBER DCV-2022 | JOB NAME SeaWorld San Diego – Shipwrec... | Shown BY | DATE 11/21/2022 | SCHEMATIC TYPE INSTALL | DWG NO ESP #1-7

DESCRIPTION OF OPERATION:
The System #1 1006 FS – 4.0/4.5 Tank-level Fire Protection System equipped with Electronic Detection utilizing CORE board as a Listed Release Actuation. Installed in Wall Mounted Utility Cabinet separate from proofs. Includes 10" low hooding shroud hoods, ductwork, and hardware for connection to main ground piping.

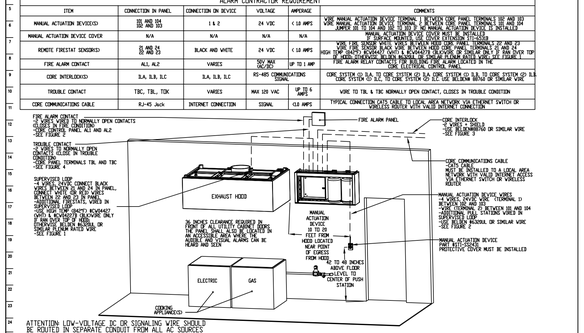
WALL MOUNT UTILITY CABINET CAS ELECTRIC WET CHEMICAL PROTECTION LOW-VOLTAGE DETAIL

02/25/2020 Rev. 1

FS-1: SLAVE

ALARM CONTRACTOR
1. USE MAIN CONTROL SYSTEM DEVICE(S), REMOTE FIRESTATION(), CORE INTERLOCK(S), FIRE SENSOR() AND FIRE ALARM CONTACTS
2. TURN ON FINAL CHECK OF SYSTEM
3. VERIFY FINAL FIRE SYSTEM TEST

ALARM CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
MANUAL ACTUATION DEVICE(S)	J2, AND J3-4 J2, AND J3-3	1 & 2	24 VDC	< 0.8 AMPS	VERIFY MANUAL ACTUATION DEVICE TERMINAL 1 BETWEEN CORE PANEL TERMINALS J2-1 AND J2-2 VERIFY MANUAL ACTUATION DEVICE TERMINAL 2 BETWEEN CORE PANEL TERMINALS J2-3 AND J2-4 JUMPER J2-1 TO J2-2 AND J2-3 TO J2-4 IF MANUAL ACTUATION DEVICE IS NOT INSTALLED
MANUAL ACTUATION DEVICE COVER	N/A	N/A	N/A	N/A	MANUAL ACTUATION DEVICE COVER MUST BE INSTALLED
REMOTE FIRESTAT SENSOR(S)	J3 AND J4 J3 AND J3	BLACK AND WHITE	24 VDC	< 0.8 AMPS	VERIFY FIRE SENSOR WIRES SIZE 18 AWG VERIFY SENSOR POWER TERMINALS OF 24V DC POWER WIRES SIZE 18 AWG OR SMALLER FROM CORE PANEL TERMINALS J3-1 AND J3-2 HIGH TEMP WIRE (SIA2 F1) PIN SLOTSCAR #7 installed for all Supervised Loop wiring at SLOTSCAR #7 must be used for all wiring at 450DegF. Belden or similar. Remote mounted heat sensors are not terminated at junction box on top of hood.
FIRE ALARM CONTACT	ALI, AL2	VARIES	30V MAX 1A MAX	UP TO 1 AMP	FIRE ALARM RELAY CONTACTS MUST BE INSTALLED IN THE CORE ELECTRICAL CONTROL PANEL
CORE INTERLOCK(S)	IL-A, IL-B, IL-C	RS-485 COMMUNICATIONS SIGNAL			CORE SYSTEM (2) ILA TO CORE SYSTEM (2) ILA CORE SYSTEM (2) ILB TO CORE SYSTEM (2) ILB CORE SYSTEM (2) ILC TO CORE SYSTEM (2) ILC USE BELDEN #8760 OR SIMILAR WIRE
TROUBLE CONTACT	TBC, TBL, TBK	VARIES	MAX 1/2 VAC	UP TO 4 AMPS	WIRE TO TBL & TBC NORMALLY OPEN CONTACT, CLOSES IN TROUBLE CONDITION
CORE COMMUNICATIONS CABLE	RJ-45 Jack	INTERNET CONNECTION	SIGNAL	<1.8 AMPS	TYPICAL CONNECTION DATA CABLE TO LOCAL AREA NETWORK VIA ETHERNET SWITCH OR WIRELESS ROUTER WITH VALID INTERNET CONNECTION



ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES.

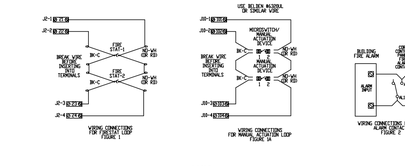
NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

DESCRIPTION OF OPERATION:

WALL MOUNTED CAS ELECTRIC WET CHEMICAL PROTECTION LOW-VOLTAGE FIGURES

02/25/2015 Rev. 16

FS-1: SLAVE



VIRING CONNECTIONS FOR STEP START LOOP
FIGURE 1

VIRING CONNECTIONS FOR MANUAL ACTUATION LOOP
FIGURE 1A

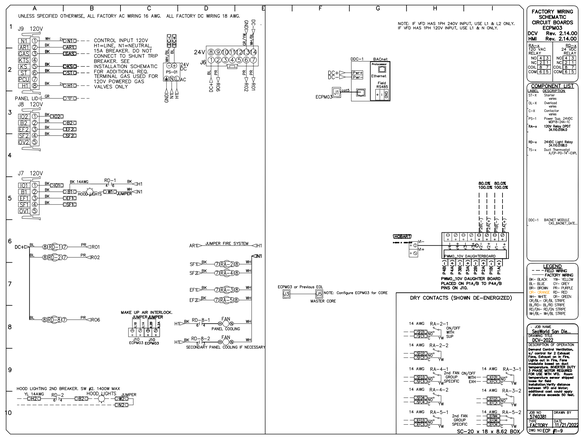
VIRING CONNECTIONS FOR FIRE ALARM CONTACT
FIGURE 2

VIRING CONNECTIONS FOR CORE INITIATION
FIGURE 3

VIRING CONNECTIONS FOR TROUBLE CONTACT
FIGURE 4

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES.



GENERAL NOTES

1. FIRE PROTECTION SYSTEM TO COMPLY WITH NFPA #13, 24, S.E.A. STANDARDS AND ALL APPLICABLE STATE AND LOCAL CODES.
2. ADHERE TO AND OBTAIN ALL PERMITS, LICENSES AND ALL GOVERNMENT AND S.E.A. REQUIREMENTS.
3. FINAL INSPECTION AND APPROVAL BY LOCAL FIRE DEPARTMENT, BLDG. DEPT., S.E.A., AND ARCHITECT/ENGINEER.
4. A VISIT TO THE SITE TO CHECK AND VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING TO INSURE THE COORDINATION OF THE FIRE SERVICES WITH EXISTING CONDITIONS.
5. CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS TO BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.
6. FLOW TESTS INDICATED THE FOLLOWING:
7. TEST 1 - PARKING LOT
   STATIC - 110 PSI
   RESIDUAL - 65 PSI
   FLOW - 974 GPM
   DATE - 02/21/2020

   TEST 2 - PARK
   STATIC - 110 PSI
   RESIDUAL - 65 PSI
   FLOW - 815 GPM
   DATE - 02/21/2020
8. PIPE ROUTING SHOWN SHALL BE USED AND ANY ADDITIONAL OFFSETS OR FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES, AND/OR TO MAINTAIN PROPER CLEARANCES SHALL BE PROVIDED. VERIFY STRUCTURAL, MECHANICAL, ELECTRICAL INSTALLATIONS AND AVOID ALL OBSTRUCTIONS OR INTERFERENCES.
9. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL LIGHTING DRAWINGS FOR CEILING DESCRIPTIONS AND HEIGHTS.
10. FIRE STOP ALL PENETRATIONS OF SMOKE/FIRE WALLS, CEILINGS, FLOORS, ROOFS, ETC., FLASH AND COUNTERFLASH ROOF PENETRATIONS.
11. PROVIDE ACCESS PANELS TO ALL VALVES ABOVE NON-ACCESSIBLE CEILINGS AND CHASES.
12. SPRINKLER HEADS ARE TO BE COORDINATED WITH ALL DIFFUSERS, SPEAKERS, LIGHTING FIXTURES, CEILING SYSTEMS AND STRUCTURAL SYSTEM.
13. INDICATE CENTER-TO-CENTER DIMENSIONS AND/OR PIPE CUT LENGTHS AND NOMINAL PIPE DIAMETERS ON ALL PIPING.
14. INDICATE PIPE TYPE, SCHEDULE OF WALL THICKNESS AND METHOD OF JOINING ON SHOP DRAWING.
15. PROVIDE STOCK OF EXTRA SPRINKLERS IN ACCORDANCE WITH N.F.P.A.-13.
16. PROVIDE DETAIL AND INDICATE TYPE OF HANGER TO BE INSTALLED FOR SPRINKLER PIPING. METHODS OF HANGING PIPES, HEADERS AND BRANCHES SHALL BE IN ACCORDANCE WITH N.F.P.A. 13. HANGERS SHALL NOT INTERFERE WITH ANY OTHER TRADE. POWDER DRIVEN STUDS SHALL NOT BE USED.
17. ALL GROOVED & SCREWED FITTING SHALL BE APPROVED PRIOR TO ANY INSTALLATION BY ENGINEER WHO RESERVES THE RIGHT TO DISAPPROVE ANY FITTING.
18. ALL SCREWED PIPING SHALL BE SCHEDULE 40 PIPE IN ACCORDANCE WITH SPECIFICATIONS ASTM A135/A795 AND SHALL BE JOINED BY SCREWED JOINTS IN ACCORDANCE WITH SPECIFICATION ANSI B2.1.
19. ALL GROOVED PIPING 2-1/2" OR LARGER SHALL BE SCHEDULE 10 ASTM A135.
20. ALL SPRINKLER PIPING & FITTINGS SHALL BE INSTALLED RUST-FREE.
21. AUTOMATIC SPRINKLER TEMPERATURE RATINGS OF GLASS BULB ELEMENTS TO BE IN ACCORDANCE WITH N.F.P.A. 13. ALL SPRINKLERS SHALL HAVE CORROSIVE-RESISTANT COATING.
22. BE ADVISED THAT PIPING SHOWN IS ARRANGED TO ALLOW FOR FIRE ALARM ZONING. FIRE PROTECTION PIPING ARRANGEMENT SHALL REFLECT AND ALLOW SAME ZONING AS SHOWN.
23. CAUTION: FINAL SPRINKLER SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER THROUGH ARCHITECT. NO INSTALLATION SHALL BE PERMITTED UNTIL SPRINKLER SHOP DRAWINGS HAVE BEEN APPROVED.
24. SPRINKLERS SHALL COVER THE ENTIRE AREA OF ALL STRUCTURAL MEMBERS. SPRAY SHALL NOT BE BLOCKED BY WALLS, PARTITIONS OR STRUCTURAL COMPONENTS.
25. IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES FOUND BETWEEN THESE PLANS, OTHER ENGINEERING PLANS, THE ARCHITECTURAL PLANS AND/OR FIELD CONDITIONS PRIOR TO FINAL BID PRICE OR FINAL PERMITTING.
26. IN CASE OF DISPUTE OR DOUBT AS TO INTENT OF DRAWINGS OR SPECIFICATIONS, OBTAIN ARCHITECT/ENGINEER'S WRITTEN DECISION BEFORE PROCEEDING WITH BID INVOLVED.
27. BEFORE SUBMITTING PROPOSAL OR BID, EXAMINE ALL DRAWINGS AND SPECIFICATIONS RELATING TO THIS PROJECT, THE AMOUNT OF SPACE AVAILABLE FOR PIPING, EQUIPMENT AND CONNECTING SERVICES, THE SITE OF THE WORK, THE REQUIREMENTS TO CORRELATE THE FIRE PROTECTION WORK WITH THAT OF OTHER TRADES AND THE TIME SCHEDULE NECESSARY TO PERFORM THAT WORK.
28. AFTER EXAMINATION OF ALL PLANS AND SPECIFICATIONS, INCLUDE ALL THE COSTS NECESSARY FOR ALTERATION, MODIFICATIONS AND/OR ADDITIONS TO THE FIRE PROTECTION SYSTEM(S) NECESSARY TO MAKE A COMPLETE, APPROVED AND FINISHED INSTALLATION IN ALL ASPECTS. IT IS THE INTENT THAT ALL COSTS REQUIRED BE INCLUDED IN THE BID OF THIS TRADE.
29. PIPE SHALL BE REAMED AND CLEANED BEFORE ASSEMBLY, AND AFTER ASSEMBLY. THE ENTIRE PIPING SYSTEM SHALL BE FLUSHED CLEAN.
30. ADJUST NEW SPRINKLER PIPING AND SPRINKLER HEAD PLACEMENT TO ACCOMMODATE NEW/EXISTING CEILING HEIGHTS AND STRUCTURAL CONFIGURATIONS.
31. PROVIDE SYSTEM(S) WITH FLUSHING CONNECTION(S).
32. PROVIDE SPRINKLERS ABOVE AND BELOW EXPOSED DUCTWORK, AN OBSTRUCTION, OR COMBINATIONS OF OBSTRUCTIONS 4 FEET OR WIDER.
33. INDICATE THE ROOM FUNCTIONS FOR EACH AREA ON THE SHOP DRAWINGS.
34. INDICATE THE LOCATION AND SIZE OF BLIND SPACES AND CLOSETS ON THE SHOP DRAWINGS.
35. INDICATE THE TOTAL SQUARE FOOT AREA PROTECTED BY SYSTEM(S) ON EACH FLOOR(S) ON THE SHOP DRAWINGS.
36. INDICATE THE NUMBER OF SPRINKLERS ON EACH RISER PER FLOOR ON THE SHOP DRAWINGS.
37. PROVIDE HEAD GUARDS ON SPRINKLER HEADS IN ELECTRIC, TELEPHONE AND MECHANICAL ROOMS.
38. ALL PENDENT SPRINKLERS SHALL BE CENTER-OF-TILE, UNLESS MAXIMUM DISTANCES FROM WALLS OR BETWEEN HEADS IS EXCEEDED. ALL SPRINKLER HEADS MOUNTED IN CEILING SHALL BE LOCATED A MINIMUM OF 4" AWAY FROM ANY WALLS, CEILING GRID MEMBERS, CEILING HEIGHT CHANGES OR ANY OTHER VERTICAL INTERSECTING STRUCTURAL SURFACE.
39. FIRE PROTECTION CONTRACTOR SHALL ASSIST IN PREPARATION OF COORDINATION DRAWINGS FOR ALL LEVELS WHICH INDICATE ALL THE ENGINEERING DISCIPLINES & FIRE PROTECTION PIPING. THESE DRAWINGS SHALL BE PREPARED & APPROVED BY THE ENGINEER PRIOR TO ANY INSTALLATION. REFER TO SPECIFICATION SECTION 2333005 - COORDINATION DRAWINGS.
40. FIRE SPRINKLER PIPING SHALL NOT TRAVEL WITHIN 6 FEET OVER THE TOPS OF ELECTRICAL PANEL BOARDS PER N.F.P.A 70 NEC ARTICLE 110-26-E-1-A, 2011 EDITION.
41. ALL SPRINKLERS SHALL MEET WITH NFPA #13 TEMPERATURE RATINGS FOR FIRE SPRINKLERS (i.e. SPRINKLERS LOCATED IN A HIGH TEMPERATURE ZONE SHALL HAVE HIGH-TEMPERATURE CLASSIFICATION SPRINKLERS AND SPRINKLERS LOCATED IN AN INTERMEDIATE ZONE SHALL HAVE INTERMEDIATE TEMPERATURE CLASSIFICATION SPRINKLERS).
42. FIRE PROTECTION CONTRACTOR SHALL PROVIDE ANY/ALL 1-INCH SPRIG-UPS FOR UPRIGHT SPRINKLERS TO ACHIEVE NFPA REQUIRED DEFLECTOR DISTANCE(S) FROM ANY/ALL STRUCTURAL MEMBERS. COSTS FOR UPRIGHT SPRINKLERS SPRIG-UPS SHALL BE INCLUDED IN THIS BID WHETHER OR NOT SAID SPRIG-UPS ARE GRAPHICALLY SHOWN IN THE BID DOCUMENTS.
43. FIRE SPRINKLER CONTRACTOR SHALL SUBMIT DETAILED SIGNED AND SEALED SPRINKLER SHOP DRAWINGS FOR SEPARATE PLAN CHECK AND APPROVAL.
44. LABEL ALL PIPING ASSOCIATED WITH THE FIRE PROTECTION SYSTEM (EXCEPT SPRINKLER BRANCH LINES) TO INDICATED PIPE USE AND DIRECTION OF FLOW (SEE EXAMPLES). LABELS SHOULD APPEAR AT 10'-0" INTERVALS ALONG PIPING, AND SHOULD BE PLACED SO THEY ARE EASILY VIEWED FROM ANY ACCESS PANELS. LABELS SHALL BE RED WITH WHITE LETTERING, AND SHALL BE SIZED APPROPRIATELY FOR THE PIPE ON WHICH THEY APPEAR. A SAMPLE ALONG WITH MANUFACTURER'S SUBMITTAL DATA SHALL BE SUBMITTED TO THE ENGINEER FOR WRITTEN APPROVAL PRIOR TO ANY INSTALLATION.

FIRE PROTECTION ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	GPM	GALLONS PER MINUTE
AMD	AIR MAINTENANCE DEVICE	GRV'D	GROOVED
BFV	BACK FLOW VALVE	HLL	HIGH/LOW PRESSURE
BFF	BELOW FINISHED FLOOR	NIC	NOT IN CONTRACT
CONT.	CONTINUATION	NTS	NOT TO SCALE
DN	DOWN	OS&Y	OUTSIDE STEM & YOKE
DWG.	DRAWING	PSI	POUNDS / SQUARE INCH
DPAC	DRY PIPE AIR COMPRESSOR	PAAC	PRE ACTION AIR COMPRESSOR
ELEC	ELECTRIC	PRV	PRESSURE REDUCING VALVE
EX.	EXISTING	PS	PRESSURE SWITCH
FDC	FIRE DEPARTMENT CONNECTION	STP	STANDPIPE
FE	FIRE EXTINGUISHER	TS	TAMPER SWITCH
FVC	FIRE VALVE CABINET	UNO	UNLESS NOTED OTHERWISE
FS	FLOW SWITCH	VRC	VICTAULIC REDUCING COUPLING

TAGS AND CALL OUT SYMBOLS

- DPAC / XX — DRY-PIPE SYSTEM AIR COMPRESSOR QUANTITY
- PAAC / XX — PRE-ACTION SYSTEM AIR COMPRESSOR QUANTITY
- 1 / FP3.1 — SECTION CALLOUT; SECTION DESIGNATION; SHEET NUMBER
- A / FP3.1 — DETAIL CALLOUT; DETAIL DESIGNATION; SHEET NUMBER
- PS / XX — PRESSURE SWITCH EQUIPMENT TAG; QUANTITY
- HLL / XX — HIGH/LOW PRESSURE CONNECTION EQUIPMENT TAG; QUANTITY
- HEAT DETECTOR
- PHOTOELECTRIC DETECTOR
- IONIZATION DETECTOR
- # — REVISION CALLOUT
- 1 — KEYNOTE CALLOUT
- POINT OF CONNECTION
- POINT OF DEMARCATION
- XYZ — HYDRAULIC REFERENCE POINT
- FS / XX — FLOW SWITCH EQUIPMENT TAG; QUANTITY
- TS / XX — TAMPER SWITCH EQUIPMENT TAG; QUANTITY
- A5 — FULLY SPRINKLERED SPACE
- B5 — PARTIALLY SPRINKLERED SPACE
- NS — NON SPRINKLERED SPACE

FIRE PROTECTION SPRINKLER LEGEND

- 1/2" BRASS QUICK RESPONSE CONCEALED PENDENT SPRINKLER 165°F - "K" FACTOR 5.6 - VIKING MODEL MIRAGE WITH COVER PLATE 135°F (SIN VK462). FINAL COLOR TO BE OBTAINED FROM ARCHITECT IN WRITING. PROVIDE ADDITIONAL 15% SUPPLY OF COVER PLATES.
- EXISTING SPRINKLER

FIRE PROTECTION PIPING AND SYMBOL LEGEND

- NEW PIPING
- EXISTING PIPING
- UNDERGROUND PIPING
- NEW OS&Y GATE VALVE WITH TAMPER SWITCH
- NEW FLOW SWITCH
- NEW PRESSURE GAUGE
- NEW BUTTERFLY VALVE
- NEW FLOOR CONTROL ASSEMBLY WITH BUTTERFLY VALVE, FLOW SWITCH, PRESSURE GAUGE, AND INSPECTORS TEST/DRAIN PIPING OUTLET
- NEW CHECK VALVE
- NEW STANDPIPE
- NEW HOSE REEL CABINET
- INSPECTOR'S TEST/DRAIN - VICTAULIC TESTMASTER II #720 AND SPLASH BLOCK
- DOUBLE CHECK BACKFLOW PREVENTER
- FREE STANDING FIRE DEPARTMENT CONNECTION
- SAP — SPRINKLER ALARM PANEL
- ALARM BELL
- FIRE HYDRANT
- WALL MOUNTED FIRE DEPARTMENT CONNECTION
- ASFP — AIR SAMPLING CONTROL DETECTOR PANEL
- GROOVED FITTING AND/OR COUPLING
- F.C. — FLUSHING CONNECTION
- PIPE CAPPED
- PIPE PLUGGED
- DIELECTRIC UNION
- DRY-PIPE VALVE ASSEMBLY
- EXISTING OS&Y GATE VALVE WITH TAMPER SWITCH
- EXISTING FLOW SWITCH
- EXISTING PRESSURE GAUGE
- EXISTING BUTTERFLY VALVE
- BUTTERFLY VALVE IN THE VERTICAL RISE
- OS&Y IN THE VERTICAL RISE
- EXISTING CHECK VALVE
- EXISTING STANDPIPE
- NEW FIRE VALVE CABINET
- AUXILIARY DRAIN WITH 1" GLOBE VALVE AND 1"x$^3/_4$" HOSE ADAPTER

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PECKHAM GUYTON ALBERS & VIETS, INC.
200 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318
WWW.PGAV.COM

REGISTERED PROFESSIONAL ENGINEER
TIMOTHY P. PENNOCK
M38838
MECHANICAL
STATE OF CALIFORNIA

12/09/2022

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exp U.S. Services Inc.
t: +1.407.660.0088
f: +1.407.660.1655
2601 Westhall Lane
Maitland, FL 32751
USA
www.exp.com
Project #: #22018179-00
Cert of Auth: 29701

REVISION SCHEDULE		
NO	DESCRIPTION	DATE
3	Revision 02	05/10/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

SYMBOLS, LEGENDS AND ABBREVIATIONS - FIRE PROTECTION

DATE	12/09/2022
DR: DDR	CK: CMZ
PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER

FP100

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DESIGN DENSITY

	HAZARD CATEGORY	SPRINKLER HEAD SPACING	HOSE ALLOWANCE	SPRINKLER DESIGN DEMAND (gpm/ft2)/ft2	
				WET	DRY
A	LIGHT HAZARD	225	100	0.10/1500	0.10/1950
B	ORDINARY HAZARD GROUP 1	130	250	0.15/1500	0.15/1950
C	ORDINARY HAZARD GROUP 2	130	250	0.20/1500	0.20/1950
D	EXTRA HAZARD GROUP 1	100	500	0.30/2500	0.30/3250
E	ROOM TO BE PROTECTED BY CLEAN AGENT FIRE SUPPRESSION SYSTEM.				

GENERAL NOTES:

1 EXPOSED PIPING IS NOT ALLOWED BELOW THE BOTTOM CHORD OF THE STRUCTURAL TRUSSES UNLESS SPECIFICALLY COORDINATED WITH THE OWNER AND ARCHITECT. WHEN PIPING IS RUN ABOVE THE BOTTOM CHORD OF THE STRUCTURAL TRUSSES, PIPING SHALL BE RUN PARALLEL OR PERPENDICULAR TO STRUCTURE AND IN A WORKMANLIKE MANNER. CONTRACTOR SHALL WORK WITH ALL TRADES TO UTILIZE COMMON SUPPORT SYSTEMS WHEREVER POSSIBLE.

KEY NOTES

243 CONNECT NEW 1" SPRINKLER BRANCH LINE TO EX. 2" SPRINKLER BRANCH LINE.
244 CONNECT NEW 1" SPRINKLER BRANCH LINE TO EX. SPRINKLER CROSS MAIN.
245 CONNECT NEW 1¼" SPRINKLER BRANCH LINE TO EX. SPRINKLER CROSS MAIN.
246 EX. 4" UNDERGROUND FIRE SUPPLY MAIN
247 EX. 4" SPRINKLER RISER ASSEMBLY
248 EX. 4" SPRINKLER CROSS MAIN
249 DEMOLISHED EX. SPRINKLER AND CAP EX. OUTLET.

1 CAFÉ - REFLECTED CEILING PLAN - FIRE PROTECTION
FP321 | SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 32'

PLAN NORTH

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PECKHAM GUYTON ALBERS & VIETS, INC.
2650 North Broadway, Suite 1000, St Louis, MO 63102
314 231 7318 WWW.PGAV.COM

REGISTERED PROFESSIONAL ENGINEER
TIMOTHY B. PENNOCK
M38636
MECHANICAL
STATE OF CALIFORNIA

12/09/2022

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exp U.S. Services Inc.
t: +1.407.660.0088
f: +1.407.660.1655
2601 Westhall Lane
Maitland, FL 32751
USA
www.exp.com
Project #: #220181790
Cert of Auth: 29701

REVISION SCHEDULE		
NO	DESCRIPTION	DATE
2	Revision 01	03/10/2023
3	Revision 02	05/10/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

CAFÉ - REFLECTED CEILING PLAN - FIRE PROTECTION

DATE 12/09/2022

DR DDR | CK CMZ

PGAV 64115-00 | CLIENT SEA

SHEET NUMBER

FP321

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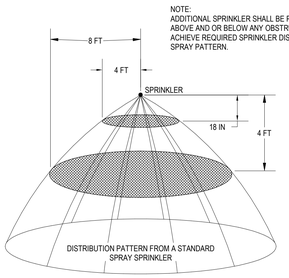
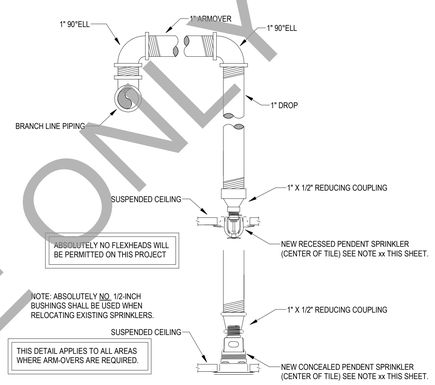


NOTE:
ADDITIONAL SPRINKLER SHALL BE PROVIDED ABOVE AND OR BELOW ANY OBSTRUCTION TO ACHIEVE REQUIRED SPRINKLER DISCHARGE SPRAY PATTERN.

4 OBSTRUCTION TO SPRINKLER DISCHARGE PATTERN DETAIL

NTS

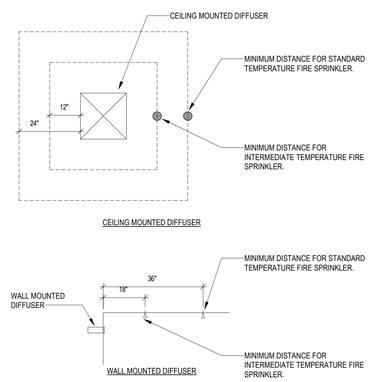


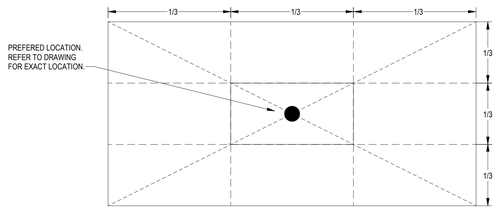
5 TYPICAL SWING JOINT DETAIL

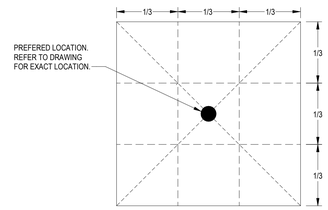
NTS

3 DIFFUSER

NTS

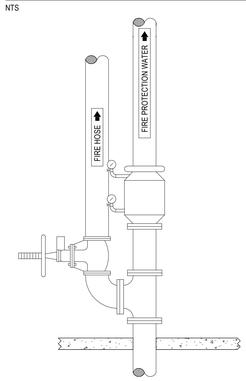






2 TYPICAL CENTER OF TILE DETAIL

NTS



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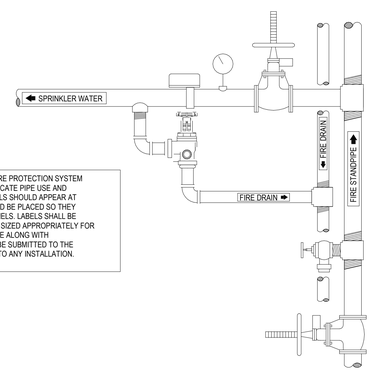

1 FIRE PROTECTION SYSTEM LABELING

NTS

PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
300 North Broadway, Suite 1900, St Louis, MO 63102
(314) 231-7318
WWW.PGAV.COM

REGISTERED PROFESSIONAL ENGINEER
TIMOTHY B. PENNOCK
M38636
MECHANICAL
STATE OF CALIFORNIA

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f: +1.407.660.1655
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REVISION SCHEDULE		
NO	DESCRIPTION	DATE
3	Revision 02	05/10/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

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DETAILS - FIRE PROTECTION

DATE	12/09/2022
DR: DDR	CK: CMZ
PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER

FP501

5/17/2023 4:50:14 PM
Autodesk Docs://64115-00.SWSD Shipwreck Cafe/22018179_SWSD.Shipwreck_FP.rvt

PLUMBING FIXTURES

TAG	FIXTURE DESCRIPTION	MANUFACTURER & MODEL NUMBER	PART DESCRIPTION	ELECTRICAL
KS-1	FOOD SERVICE SINK PROVIDED BY FOOD SERVICE CONSULTANT. FINAL CONNECTION BY THE PLUMBING CONTRACTOR.	SINK FAUCET ZURN - Z6800 SERIES	SINK - SPECIFIED BY FOOD SERVICE CONSULTANT FACUET - SPECIFIED BY FOOD SERVICE CONSULTANT 1/4 TURN, HEAVY DUTY ANGLE STOPS, FLANGES, FLEXIBLE SUPPLY RISERS, LOOSE KEYS.	NO

GENERAL NOTES:
A. REFER TO ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS FOR ALL DIMENSIONS AND MOUNTING HEIGHTS.

FLOOR SINKS AND FLOOR/ROOF/AREA DRAINS

TAG	MANUFACTURER & MODEL NUMBER	DESCRIPTION	BODY MATERIAL	GRATE/DOME				OUTLET LOCATION	ACCESSORIES	NOTES
				SIZE (INCH)	OPEN FREE AREA (SQ. IN.)	MATERIAL	SHAPE			
FS-1	ZURN #ZS1900-2	12"x 12"x6" FLOOR SINK	CAST IRON	12"	31"	304 STAINLESS	SQUARE	BOTTOM	PROVIDE 1/2 GRATE	--

GENERAL NOTES:
A. BEFORE SETTING DRAINS, OBTAIN EXACT INFORMATION RELATIVE TO FINISH FLOOR LEVEL AT TOP OF DRAINS AND TYPE OF ROOF CONSTRUCTION FOR ROOF DRAIN INSTALLATION.
B. ALL FLOOR DRAINS SHALL HAVE A FINISH THAT IS FLUSH WITH THE FINISHED FLOOR.
C. DRAIN OUTLET SIZES ARE INDICATED ON THE DRAWINGS.

PLUMBING ABBREVIATIONS

A/C	ABOVE CEILING	HVAC	HEATING, VENTILATION, & AIR CONDITIONING
AAV	AIR ADMITTANCE VALVE	IE	INVERT ELEVATION
ACFM	ACTUAL CUBIC FEET PER MINUTE	ID	INSIDE DIAMETER
ADA	AMERICANS WITH DISABILITIES ACT	INV	INVERT
AFF	ABOVE FINISHED FLOOR	IN. HG	INCHES MERCURY
AFG	ABOVE FINISHED GRADE	IN. W.C.	INCHES WATER COLUMN
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE	IVTR	INDUSTRIAL VENT THROUGH ROOF
AP	ACCESS PANEL	KW	KILOWATT
ARCH	ARCHITECT OR ARCHITECTURAL	LB	POUND
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	LWVTR	LABORATORY WASTE VENT THROUGH ROOF
BFF	BELOW FINISHED FLOOR	MAX	MAXIMUM
BFV	BUTTERFLY VALVE	MBH	THOUSAND BTU PER HOUR
BHP	BRAKE HORSEPOWER	MECH	MECHANICAL
B/F	BELOW FLOOR	MFR	MANUFACTURER
B/G	BELOW GRADE	MIN	MINIMUM
B/S	BELOW SLAB	NAVD	NORTH AMERICAN VERTICAL DATUM
BTU	BRITISH THERMAL UNITS	NC	NORMALLY CLOSED
BTUH	BRITISH THERMAL UNITS PER HOUR	NIC	NOT IN CONTRACT
BV	BALL VALVE	NO	NORMALLY OPEN
°C	DEGREES CELSIUS	NPSH	NET POSITIVE SUCTION HEAD
CFH	CUBIC FEET PER HOUR	NTS	NOT TO SCALE
CFM	CUBIC FEET PER MINUTE	OD	OUTSIDE DIAMETER
CONN	CONNECT OR CONNECTION	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CONT	CONTINUATION	PLBG	PLUMBING
CONTR	CONTRACTOR	PSI	POUNDS PER SQUARE INCH
DEG	DEGREE	POC	POINT OF CONNECTION
DFU	DRAINAGE FIXTURE UNITS	PRV	PRESSURE REDUCING VALVE
DN	DOWN	PV	PRESSURE RELIEF VALVE
DWG	DRAWING	PVC	POLYVINYL CHLORIDE
ECO	EXTERIOR CLEAN OUT	QTY	QUANTITY
EFF	EFFICIENCY	RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
ELEC	ELECTRICAL	RM	ROOM
ELEV	ELEVATION	RPM	REVOLUTIONS PER MINUTE
EQUIP	EQUIPMENT	SCFM	STANDARD CUBIC FEET PER MINUTE
°F	DEGREES FAHRENHEIT	SF	SQUARE FEET
FCO	FLOOR CLEAN OUT	SHT	SHEET
FFE	FINISH FLOOR ELEVATION	SOV	SHUT OFF VALVE
FLR	FLOOR	SPEC	SPECIFICATION
FT	FEET	SS	STAINLESS STEEL
FU	FIXTURE UNITS	TEMP	TEMPERATURE
GAL	GALLONS	TYP	TYPICAL
GALV	GALVANIZED	T&P	TEMPERATURE AND PRESSURE RELIEF VALVE
GLV	GLOBE VALVE	UNO	UNLESS NOTED OTHERWISE
GPF	GALLONS PER FLUSH	UV	ULTRA VIOLET
GPH	GALLONS PER HOUR	VFD	VARIABLE FREQUENCY DRIVE
GPM	GALLONS PER MINUTE	VTR	VENT THROUGH ROOF
GV	GATE VALVE	V/PH/HZ	VOLTS/PHASE/HERTZ
HD	HEAD	W/	WITH
HP	HORSEPOWER	WCO	WALL CLEAN OUT
HR	HOUR	WHA	WATER HAMMER ARRESTOR

TAGS AND CALL OUT SYMBOLS

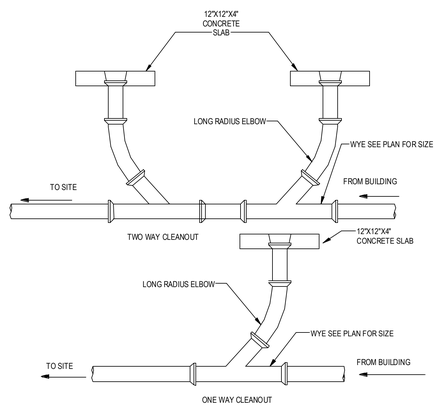
EQUIP #	EQUIPMENT REQUIRING ELECTRICAL SERVICE. REFER TO SCHEDULES FOR PERFORMANCE REQUIREMENTS.	#	REVISION CALLOUT
EQUIP #	EQUIPMENT NOT REQUIRING ELECTRICAL SERVICE. REFER TO SCHEDULES FOR PERFORMANCE REQUIREMENTS.	X	KEYNOTE CALLOUT
			POINT OF CONNECTION
			POINT OF DEMARCATION
X / XXX	SECTION CALLOUT SECTION DESIGNATION SHEET NUMBER	S 1 / E 1	HEAT TRACE CIRCUIT START AND END HEAT TRACE CIRCUIT NUMBER
A / P3.1	DETAIL CALLOUT DETAIL DESIGNATION SHEET NUMBER		

PLUMBING SYMBOL LEGEND

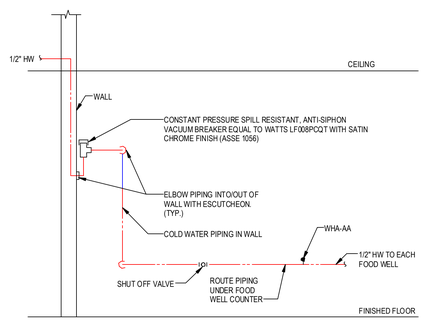
	PIPING TURN DOWN OR DROP		WALL HYDRANT
	PIPING TURN UP OR RISE		UNION
	PIPING TEE DOWN OR DROP		PETE'S PLUG
	PIPING TEE UP OR RISE		FLOW SWITCH
	P-TRAP		PRESSURE SWITCH
	GATE VALVE		AUTOMATIC AIR VENT
	CHECK VALVE		EXPANSION JOINT
	BALL VALVE		PUMP
	MIXING VALVE		METER
	BUTTERFLY VALVE		PRESSURE GAUGE WITH GAUGE COCK
	GLOBE VALVE		VALVE ON PIPING RISE OR DROP
	PRESSURE REDUCING VALVE		AQUASTAT
	PLUG VALVE		TRAP PRIMER
	BACKFLOW PREVENTER		THERMOMETER
	BALANCING VALVE		WATER HAMMER ARRESTOR
	TEMP. & PRESSURE RELIEF VALVE		DIRECTION OF FLOW
	PRESSURE RELIEF VALVE		SLOPE & DIRECTION OF FALL
	VACUUM RELIEF VALVE		REDUCER OR INCREASER
	MOTORIZED SHUT-OFF VALVE	ø	DIAMETER
	SOLENOID VALVE		DRAIN RECEPTOR
	STRAINER		FLOOR DRAIN
	FLOOR CLEAN OUT		AREA DRAIN
	WALL CLEAN OUT		FLOOR SINK
	EXTERIOR CLEAN OUT		ROOF DRAIN
	CAPPED PIPE / CLEAN OUT		SECONDARY ROOF DRAIN
	CONTINUATION	(E)	EXISTING
	FLEXIBLE CONNECTION (PIPE)		
	HOSE BIBB		

PLUMBING PIPING LEGEND

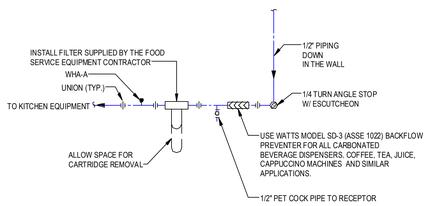
CWW	CLEAR WATER WASTE ABOVE FLOOR OR GROUND	IW	INDUSTRIAL WASTE BELOW FLOOR OR GROUND
CWW	CLEAR WATER WASTE BELOW FLOOR OR GROUND	KW	KITCHEN WASTE ABOVE FLOOR/GROUND
CWV	CLEAR WATER WASTE VENT	KW	KITCHEN WASTE BELOW FLOOR/GROUND
CW	COLD WATER	LPG	LIQUID PETROLEUM GAS - LOW PRESSURE
CWHP	COLD WATER HIGH PRESSURE	G	NATURAL GAS - LOW PRESSURE
CSD	COMBINED STORM DRAIN ABOVE FLOOR OR GROUND	HG	GAS - HIGH PRESSURE
CSD	COMBINED STORM DRAIN BELOW FLOOR OR GROUND	MG	GAS - MEDIUM PRESSURE
CA	COMPRESSED AIR	PD	PUMP DISHARGE
CAI	COMPRESSED AIR INTAKE	RW	RECLAIMED WATER
DI	DEIONIZED WATER SUPPLY	RO	REVERSE OSMOSIS WATER
DIR	DEIONIZED WATER RETURN	ROR	REVERSE OSMOSIS WATER RETURN
FOR	FUEL OIL RETURN	S	SANITARY SEWER ABOVE FLOOR/GROUND
FO	FUEL OIL SUPPLY	S	SANITARY SEWER BELOW FLOOR/GROUND
GW	GRAY WATER ABOVE FLOOR OR GROUND	V	SANITARY SEWER VENT
GW	GRAY WATER BELOW FLOOR OR GROUND	SSD	SECONDARY STORM DRAIN ABOVE FLOOR OR GROUND
HW	HOT WATER	SSD	SECONDARY STORM DRAIN BELOW FLOOR OR GROUND
HW140	HOT WATER (140°F)	SCW	SOFT COLD WATER
HWR140	HOT WATER RETURN (140°F)	SHW	SOFT HOT WATER
HW160	HOT WATER (160°F)	SHWR	SOFT HOT WATER RETURN
HWR160	HOT WATER RETURN (160°F)	SD	STORM DRAIN ABOVE FLOOR/GROUND
HWR	HOT WATER RETURN	SD	STORM DRAIN BELOW FLOOR/GROUND
ICW	INDUSTRIAL NONPOTABLE COLD WATER	SUB	SUBSURFACE STORM DRAIN
IHW	INDUSTRIAL NONPOTABLE HOT WATER	TP	TRAP PRIMER
IHWR	INDUSTRIAL NONPOTABLE HOT WATER RETURN	TW	TEMPERED WATER
ISCW	INDUSTRIAL NONPOTABLE SOFT COLD WATER	TWR	TEMPERED WATER RETURN
ISHW	INDUSTRIAL NONPOTABLE SOFT HOT WATER	VAC	VACUUM
ISHWR	INDUSTRIAL NONPOTABLE SOFT HOT WATER RETURN	VEX	VACUUM EXHAUST
IV	INDUSTRIAL VENT	WO	WASTE OIL
IW	INDUSTRIAL WASTE ABOVE FLOOR OR GROUND	WOV	WASTE OIL VENT
			DEMOLITION PIPING
			DEMOLITION EQUIPMENT



3 EXTERIOR CLEANOUT
NTS



2 HOT WELL PIPING
NTS



NOTES:
1. LOCATE FILTERS AND VALVES IN AN ACCESSIBLE LOCATION COORDINATE WITH THE FOOD SERVICE EQUIPMENT CONTRACTOR ON THE EXACT LOCATIONS.
2.ROUTE DRAIN FROM EACH WATTS SD-3 (ASSE 1022) TO NEAREST FLOOR RECEPTOR.

1 BEVERAGE DISPENSER PIPING
NTS

PGAV DESTINATIONS
PICKHAM QUYTON ALIRES & VIRTS, INC.
3020 North Broadway, Ste. 1000, St Louis, MO 63102
(314) 231-7318 www.PGAV.com

REGISTERED PROFESSIONAL ENGINEER
RAMZY P. RANNOCK
M36636
MECHANICAL
STATE OF CALIFORNIA

12/09/2022

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f: +1.407.660.1655
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Maitland, FL 32751
USA
www.exp.com
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SYMBOLS, LEGENDS AND ABBREVIATIONS - PLUMBING

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PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER
P100

12/8/2022 1:03:19 PM
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GENERAL NOTES:

1. ALL EXISTING SANITARY, WATER, VENT, COMPRESSED AIR AND STORM PIPING LAYOUTS SHOWN ON THIS PLAN ARE TAKEN FROM AS BUILT DRAWINGS PROVIDED BY THE OWNER AND HAVE BEEN GENERALLY VERIFIED. CONTRACTORS TO VERIFY ALL AREAS OF DEMOLITION PRIOR TO BID.
2. DEVICES, FIXTURES, PIPING AND CONNECTIONS SHOWN ON THE DEMOLITION PLANS ARE INTENDED TO GIVE THE CONTRACTOR A GENERAL IDEA OR COUNT OF WHAT EQUIPMENT IS BEING REMOVED, DISCONNECTED, OR RETAINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD INSPECTION OF THE SITE TO DETERMINE ACTUAL CONDITIONS OF THE INSTALLATION AND QUANTITIES OF THE EXISTING EQUIPMENT BEFORE SUBMITTING BID.
3. ALL EXISTING SANITARY, WATER, VENT, COMPRESSED AIR AND STORM PIPING LAYOUTS SHOWN ON THIS PLAN ARE TAKEN FROM AS BUILT DRAWINGS PROVIDED BY THE OWNER AND HAVE BEEN GENERALLY VERIFIED. CONTRACTORS TO VERIFY ALL AREAS OF DEMOLITION PRIOR TO BID.

KEY NOTES

002 DEMO TAILPIECE FROM FLOOR SINK OR FLOOR DRAIN BEING REMOVED. CONTRACTOR TO PERMANENTLY CAP OPEN END OF EXISTING PIPES BELOW SLAB BEFORE PATCHING SLAB TO PREPARE FOR NEW FLOOR FINISH SPECIFIED BY ARCHITECT.

003 DEMO TAILPIECE AND P-TRAP FROM FLOOR SINK BEING REMOVED. PREPARE OPEN END OF PIPE TO BE EXENDED AS SHOWN ON P310. CONTRACTOR TO PATCH SLAB TO PREPARE FOR NEW FLOOR FINISH SPECIFIED BY ARCHITECT.

004 ABANDON EXISTING GAS BELOW GRADE THAT IS NO LONGER IN USE. EACH END OF GAS PIPING TO BE PERMANENTLY CAPPED.

PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
220 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318 WWW.PGAV.COM

RAMA P. RANADIVE
REGISTERED PROFESSIONAL ENGINEER
M35636
MECHANICAL
STATE OF CALIFORNIA
12/09/2022

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f: +1.407.660.1655
2601 Westhall Lane
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EXISTING 750 GALLON GREASE INTERCEPTOR

EXISTING 5,000 GALLON GREASE INTERCEPTOR

1 CAFÉ - DEMO UNDERSLAB PLAN - PLUMBING
P200 | SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 32'

REVISION SCHEDULE		
NO	DESCRIPTION	DATE
2	Revision 01	03/15/2023

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CAFE - DEMO UNDERSLAB PLAN - PLUMBING

DATE	12/09/2022
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PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER: P200

3/22/2023 12:27:56 PM

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GENERAL NOTES:

1. ALL EXISTING SANITARY, WATER, VENT, COMPRESSED AIR AND STORM PIPING LAYOUTS SHOWN ON THIS PLAN ARE TAKEN FROM AS BUILT DRAWINGS PROVIDED BY THE OWNER AND HAVE BEEN GENERALLY VERIFIED. CONTRACTORS TO VERIFY ALL AREAS OF DEMOLITION PRIOR TO BID.
2. DEVICES, FIXTURES, PIPING AND CONNECTIONS SHOWN ON THE DEMOLITION PLANS ARE INTENDED TO GIVE THE CONTRACTOR A GENERAL IDEA OR COUNT OF WHAT EQUIPMENT IS BEING REMOVED, DISCONNECTED, OR RETAINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD INSPECTION OF THE SITE TO DETERMINE ACTUAL CONDITIONS OF THE INSTALLATION AND QUANTITIES OF THE EXISTING EQUIPMENT BEFORE SUBMITTING BID.
3. ALL EXISTING SANITARY, WATER, VENT, COMPRESSED AIR AND STORM PIPING LAYOUTS SHOWN ON THIS PLAN ARE TAKEN FROM AS BUILT DRAWINGS PROVIDED BY THE OWNER AND HAVE BEEN GENERALLY VERIFIED. CONTRACTORS TO VERIFY ALL AREAS OF DEMOLITION PRIOR TO BID.

KEY NOTES

001 REMOVE EXISTING 3/4" HW AND COLD FROM BENEATH COUNTERTOP THAT IS BEING REMOVED DURING DEMO.

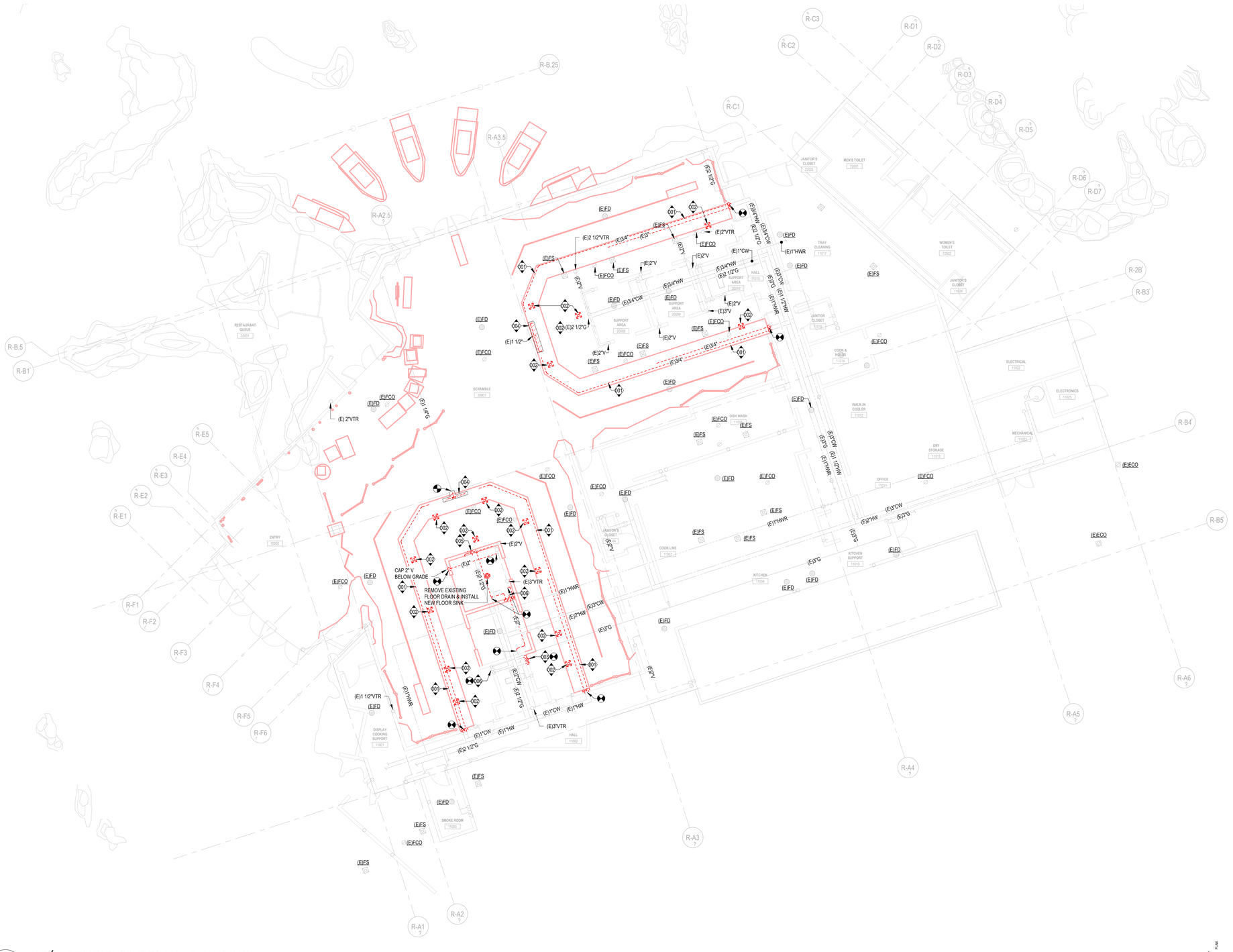
002 DEMO TAILPIECE FROM FLOOR SINK OR FLOOR DRAIN BEING REMOVED. CONTRACTOR TO PERMANENTLY CAP OPEN END OF EXISTING PIPES BELOW SLAB BEFORE PATCHING SLAB TO PREPARE FOR NEW FLOOR FINISH SPECIFIED BY ARCHITECT.

003 REMOVE HOT WATER, COLD WATER AND VENT PIPING SERVING PLUMBING FIXTURE BEING REMOVED. REMOVE WASTE PIPING TO JUST ABOVE FLOOR LEVEL AND PREPARE WASTE PIPING TO BE EXTENDED AS SHOWN ON NEW FLOOR PLAN P311.

004 ABANDON EXISTING GAS BELOW GRADE THAT IS NO LONGER IN USE. PROVIDE A PERMANENT CAP ON GAS JUST BENEATH SLAB BEFORE PATCHING SLAB TO PREPARE FOR NEW FLOOR FINISH SPECIFIED BY ARCHITECT.

005 DISCONNECT GAS IN VERTICAL DROP JUST BEFORE GAS DROPS BELOW GRADE, PROVIDING A CAP ON GAS THAT IS ABONDONED BELOW GRADE AND ANOTHER CAP ON VERTICAL DROP THAT IS TO REMAIN IN SERVICE FOR EXISTING KITCHEN EQUIPMENT THAT IS REMAINING.

006 REMOVE HOT WATER, COLD WATER, WASTE AND VENT PIPING SERVING PLUMBING FIXTURE BEING REMOVED. PERMANENTLY CAP WASTE PIPING BELOW GRADE BEFORE PATCHING FLOOR. PROVIDE CAP ON HOT WATER, COLD WATER AND VENT WITHIN CEILING AS SHOWN ON PLAN.



1 CAFÉ - DEMO FLOOR PLAN - PLUMBING
P201 | SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 32'

PLAN NORTH

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PECKHAM GUYTON ALBERS & VIETS, INC.
200 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318 www.PGAV.COM

RECOGNIZED PROFESSIONAL ENGINEER
ANASTASIOS P. PAPANDROS
M35636
MECHANICAL
STATE OF CALIFORNIA

12/09/2022

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f: +1.407.660.1655
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Maitland, FL 32751
USA
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CAFÉ - DEMO FLOOR PLAN - PLUMBING

DATE	12/09/2022		
DR	RAM	CK	EMK
PGAV	64115-00	CLIENT	SEA

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P201

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1 CAFÉ - UNDERSLAB PLAN - PLUMBING

P310 | SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 32'

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PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
220 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318
WWW.PGAV.COM

REGISTERED PROFESSIONAL ENGINEER
VALENTIN P. PANNOCO
M38636
MECHANICAL
STATE OF CALIFORNIA

12/09/2022

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CAFÉ - UNDERSLAB PLAN - PLUMBING

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GENERAL NOTES:

1 ALL DOMESTIC HOT WATER PIPING SHALL BE INSULATED PER SECTION 609.11 CPC.

KEY NOTES

001 EXTEND 1/2"CW DN TO WATER FILTER PROVIDED BY KITCHEN CONSULTANT. PROVIDE A WATTS #LF9O 1/2" DUAL CHECK VALVE BACKFLOW PREVENTER TO EQUAL (ASSE 1024) WITHIN CABINET BEFORE MAKING FINAL CONNECTION TO WATER FILTER.

002 EXTEND 3/4"CW DN TO RPZ BACKFLOW PREVENTER TO SERVE CARBONATORS PROVIDED BY KITCHEN CONSULTANT. EXTEND PRZ BACKFLOW PREVENT DRAIN LINE TO FLOOR SINK BENEATH SODA MACHINE. BEFORE MAKING FINAL CONNECTION TO CARBONATOR. NO COPPER POST RP DEVICE TO CARBONATOR.

WATER DEMAND COMPARISON

DURING DEMO WE REMOVED:
- 2 HAND SINKS
- 8 HOT WATER CONNECTIONS TO KITCHEN EQT.

DURING RENOVATION WE ADDED:
- 2 HAND SINKS
- 3 HOT WATER CONNECTIONS TO KITCHEN EQT.

OVERALL WE REMOVED 5 HOT WATER CONNECTIONS TO KITCHEN EQT.

1 CAFÉ - FLOOR PLAN - PLUMBING
P311 | SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 32'

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PECKHAM GUYTON ALBERS & VIETS, INC.
220 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318
WWW.PGAV.COM

RECORDED PROFESSIONAL ENGINEER
ASAMOTTO P. RAMADOS
M35636
MECHANICAL
STATE OF CALIFORNIA

12/09/2022

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DATE	12/09/2022
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3/22/2023 12:28:21 PM

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The City of SAN DIEGO

EXISTING SCOPE OF WORK

CITY OF SAN DIEGO PUBLIC UTILITIES
FEWD PERMIT PROGRAM
DFU WORKSHEET FOR GRAVITY GREASE INTERCEPTOR (GGI) SIZING*

	TYPE	USAGE	COMMENTS	GREASE REMOVAL EQUIPMENT (GRE) REQUIRED?	QTY	TOTAL DFU'S
1	1-COMP SINK	ANY EXCEPT NOTED BELOW	3 DFU	DETERMINED AT PLAN CHECK	3	9
2	1-COMP SINK	BAR/DRINKS	2 DFU	OPTIONAL		
3	1-COMP SINK	DUMP (COFFEE)	2 DFU	YES		
4	1-COMP SINK	HAND	1 DFU	DETERMINED AT PLAN CHECK	3	3
5	2-COMP SINK	ANY EXCEPT NOTED BELOW	3 DFU	DETERMINED AT PLAN CHECK		
6	2-COMP SINK	BAR/DRINKS	2 DFU	OPTIONAL		
7	3-COMP SINK	ANY EXCEPT NOTED BELOW	3 DFU	YES		
8	3-COMP SINK	BAR/DRINKS	2 DFU	OPTIONAL		
9	4-COMP SINK	ANY EXCEPT NOTED BELOW	3 DFU	YES		
10	4-COMP SINK	BAR/DRINKS	2 DFU	OPTIONAL		
11	GARGAGE DISPOSAL		ADD 3 DFU TO SINK DFU	**YES (SEE NOTE BELOW REGARDING GARBAGE DISPOSALS)		
12	BRAISING PAN		1 DFU IF DISCHARGES TO FLOOR SINK OR TROUGH	YES		
13	COLD TABLE	PLUMBED TO FLOOR SINK	1 DFU	DETERMINED AT PLAN CHECK	19	19
14	COMBI OVEN		1 DFU	DETERMINED AT PLAN CHECK		
15	CAN WASH		3 DFU	YES		
16	DIPPER WELL		1 DFU	DETERMINED AT PLAN CHECK		
17	PRE-RINSE		3 DFU	YES		
18	DISHWASHER		UNDER COUNTER	DO NOT CONNECT TO GW PER		
19	DISHWASHER		COMMERICAL	CALIFORNIA PLUMBING CODE		
20	DISHWASHER		LARGE COMMERICAL			
21	ESPRESSO MACHINE	PLUMBED TO FLOOR SINK	1 DFU	YES		
22	FLOOR DRAIN	COOKLINE	0 DFU	YES		
23	FLOOR DRAIN	SCULLERY	0 DFU	YES		
24	FLOOR DRAIN	UTILITY	BY MOP SINK = 0 DFU	YES		
25	FLOOR DRAIN		0 DFU IF EMERGENCY DRAIN	DETERMINED AT PLAN CHECK	5	0
26	FLOOR SINK	CONDENSATE	0 DFU	DETERMINED AT PLAN CHECK		
27	FLOOR TROUGH	CONDENSATE	0 DFU OR IF EMERGENCY DRAIN	DETERMINED AT PLAN CHECK		
28	FLOOR TROUGH		2 DFU IF FOR WASHDOWN	DETERMINED AT PLAN CHECK	2	4
29	GLASS DRAIN RACK		0 DFU	OPTIONAL		
30	MOP SINK		3 DFU	DETERMINED AT PLAN CHECK		
31	QUICK DRAIN	(DISHWASHER)	2 DFU	YES		
32	QUICK DRAIN	(POT SINK)	2 DFU	YES		
33	QUICK DRAIN	(PRE-RINSE)	3 DFU	YES		
34	ROTISSERIE	PLUMBED TO FLOOR SINK	1 DFU	YES		
35	STEAM TABLE	PLUMBED TO FLOOR SINK	1 DFU	DETERMINED AT PLAN CHECK		
36	SOUP KETTLE	PLUMBED TO FLOOR SINK OR FLOOR TROUGH	1 DFU IF WASTEWATER IS ONLY FROM CLEANING	YES		
37	SOUP KETTLE	PLUMBED TO FLOOR SINK OR FLOOR TROUGH	3 DFU IF FULL KETTLE IS DISCHARGED (LIKE BAGELS)	YES		
38	STEAMER	PLUMBED TO FLOOR SINK	1 DFU	DETERMINED AT PLAN CHECK		
39	TILT SKILLET		1 DFU IF DISCHARGES TO FLOOR SINK OR TROUGH	YES		
40	WASHER		2 DFU CLOTHES WASHER OR GLASS SANTIZER	DETERMINED AT PLAN CHECK		
41	WATER WASH HOOD		2 DFU	DETERMINED AT PLAN CHECK		
42	WOK RANGE		4 DFU	YES		
						35

TOTAL DFU'S

* FOR SIZING OF GGI FOR SHELL BUILDINGS REFER TO 2019 CALIFORNIA PLUMBING CODE SECTION 1014.3.6 AND TABLE 703.2

**CITY OF SAN DIEGO DOES NOT RECOMMEND THE INSTALLATION OF GARBAGE DISPOSALS, BUT WILL APPROVE ONLY IF CONNECTED TO A GGI SIZED LARGE ENOUGH TO HANDLE THE EXTRA SOLIDS.

2019 CALIFORNIA PLUMBING CODE
TABLE 1014.3.6 GRAVITY GREASE INTERCEPTOR

MAXIMUM ALLOWABLE DFUS	SIZING INTERCEPTOR VOLUME
8	500 GALLONS
21	750 GALLONS
35	1,000 GALLONS
90	1,250 GALLONS
172	1,500 GALLONS
216	2,000 GALLONS
307	2,500 GALLONS
342	3,000 GALLONS
428	4,000 GALLONS
576	5,000 GALLONS
720	7,500 GALLONS
2112	10,000 GALLONS
2640	15,000 GALLONS

The City of SAN DIEGO

NEW SCOPE OF WORK

CITY OF SAN DIEGO PUBLIC UTILITIES
FEWD PERMIT PROGRAM
DFU WORKSHEET FOR GRAVITY GREASE INTERCEPTOR (GGI) SIZING*

	TYPE	USAGE	COMMENTS	GREASE REMOVAL EQUIPMENT (GRE) REQUIRED?	QTY	TOTAL DFU'S
1	1-COMP SINK	ANY EXCEPT NOTED BELOW	3 DFU	DETERMINED AT PLAN CHECK	3	9
2	1-COMP SINK	BAR/DRINKS	2 DFU	OPTIONAL		
3	1-COMP SINK	DUMP (COFFEE)	2 DFU	YES		
4	1-COMP SINK	HAND	1 DFU	DETERMINED AT PLAN CHECK	3	3
5	2-COMP SINK	ANY EXCEPT NOTED BELOW	3 DFU	DETERMINED AT PLAN CHECK		
6	2-COMP SINK	BAR/DRINKS	2 DFU	OPTIONAL		
7	3-COMP SINK	ANY EXCEPT NOTED BELOW	3 DFU	YES		
8	3-COMP SINK	BAR/DRINKS	2 DFU	OPTIONAL		
9	4-COMP SINK	ANY EXCEPT NOTED BELOW	3 DFU	YES		
10	4-COMP SINK	BAR/DRINKS	2 DFU	OPTIONAL		
11	GARGAGE DISPOSAL		ADD 3 DFU TO SINK DFU	**YES (SEE NOTE BELOW REGARDING GARBAGE DISPOSALS)		
12	BRAISING PAN		1 DFU IF DISCHARGES TO FLOOR SINK OR TROUGH	YES		
13	COLD TABLE	PLUMBED TO FLOOR SINK	1 DFU	DETERMINED AT PLAN CHECK	7	7
14	COMBI OVEN		1 DFU	DETERMINED AT PLAN CHECK		
15	CAN WASH		3 DFU	YES		
16	DIPPER WELL		1 DFU	DETERMINED AT PLAN CHECK		
17	PRE-RINSE		3 DFU	YES		
18	DISHWASHER		UNDER COUNTER	DO NOT CONNECT TO GW PER		
19	DISHWASHER		COMMERICAL	CALIFORNIA PLUMBING CODE		
20	DISHWASHER		LARGE COMMERICAL			
21	ESPRESSO MACHINE	PLUMBED TO FLOOR SINK	1 DFU	YES		
22	FLOOR DRAIN	COOKLINE	0 DFU	YES		
23	FLOOR DRAIN	SCULLERY	0 DFU	YES		
24	FLOOR DRAIN	UTILITY	BY MOP SINK = 0 DFU	YES		
25	FLOOR DRAIN		0 DFU IF EMERGENCY DRAIN	DETERMINED AT PLAN CHECK	5	0
26	FLOOR SINK	CONDENSATE	0 DFU	DETERMINED AT PLAN CHECK		
27	FLOOR TROUGH	CONDENSATE	0 DFU OR IF EMERGENCY DRAIN	DETERMINED AT PLAN CHECK		
28	FLOOR TROUGH		2 DFU IF FOR WASHDOWN	DETERMINED AT PLAN CHECK	2	4
29	GLASS DRAIN RACK		0 DFU	OPTIONAL		
30	MOP SINK		3 DFU	DETERMINED AT PLAN CHECK		
31	QUICK DRAIN	(DISHWASHER)	2 DFU	YES		
32	QUICK DRAIN	(POT SINK)	2 DFU	YES		
33	QUICK DRAIN	(PRE-RINSE)	3 DFU	YES		
34	ROTISSERIE	PLUMBED TO FLOOR SINK	1 DFU	YES		
35	STEAM TABLE	PLUMBED TO FLOOR SINK	1 DFU	DETERMINED AT PLAN CHECK		
36	SOUP KETTLE	PLUMBED TO FLOOR SINK OR FLOOR TROUGH	1 DFU IF WASTEWATER IS ONLY FROM CLEANING	YES		
37	SOUP KETTLE	PLUMBED TO FLOOR SINK OR FLOOR TROUGH	3 DFU IF FULL KETTLE IS DISCHARGED (LIKE BAGELS)	YES		
38	STEAMER	PLUMBED TO FLOOR SINK	1 DFU	DETERMINED AT PLAN CHECK		
39	TILT SKILLET		1 DFU IF DISCHARGES TO FLOOR SINK OR TROUGH	YES		
40	WASHER		2 DFU CLOTHES WASHER OR GLASS SANTIZER	DETERMINED AT PLAN CHECK		
41	WATER WASH HOOD		2 DFU	DETERMINED AT PLAN CHECK		
42	WOK RANGE		4 DFU	YES		
						23

TOTAL DFU'S

* FOR SIZING OF GGI FOR SHELL BUILDINGS REFER TO 2019 CALIFORNIA PLUMBING CODE SECTION 1014.3.6 AND TABLE 703.2

**CITY OF SAN DIEGO DOES NOT RECOMMEND THE INSTALLATION OF GARBAGE DISPOSALS, BUT WILL APPROVE ONLY IF CONNECTED TO A GGI SIZED LARGE ENOUGH TO HANDLE THE EXTRA SOLIDS.

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TABLE 1014.3.6 GRAVITY GREASE INTERCEPTOR

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576	5,000 GALLONS
720	7,500 GALLONS
2112	10,000 GALLONS
2640	15,000 GALLONS

Project Name: SWSD Shipwreck
Project Number: 22018179
Designer: RAM
Date: 3/14/2023

exp.

Kitchen Water Heater Sizing

Incoming Cold Water Temperature (°F): 57
Stored Water Temperature (°F): 140

Equipment	Quantity	Consumption (gph)	Usage Temperature	Total GPH
Sink				
Vegetable Sink		45	120	0
Single Compartment Sink	1	30	140	30
Double Compartment Sink		60	140	0
Triple-Pot Sink	1	90	140	90
Hand Sink	8	5	110	26
Janitor's Sink	2	20	140	40
Pre-Rinse				
Scrapper	1	180	140	180
Pre-Rinse (hand operated)		45	140	0
Pre-Rinse (enclosed type)		240	140	0
Recirculating Pre-Rinse		40	140	0
Washers				
Door Type (16" x 16")		69	140	0
Rack Type (18" x 18" rack)		87	140	0
Rack Type (20" x 20" rack)	1	104	140	104
Under counter Rack Type		70	140	0
Single Tank Conveyor		416	140	0
Multi-Tank Conveyor w/ Dishes Flat		347	140	0
Multi-Tank Conveyor w/ Dishes Inclined		277	140	0
Silverware Washers		45	140	0
Utensil Washers		75	140	0
Miscellaneous Items				
				0
				0
				0
				0

Total GPH required: 329

Water Heater Efficiency: 90%
Storage Factor: 50%
Recommended Storage Volume (gal): 164

BTUh Input Required: 252,495
OR
KW input Required: 66.6

THE CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT WASTEWATER
FOOD ESTABLISHMENT WASTEWATER DISCHARGE PERMIT PROGRAM
9150 TOPAZ WAY, SAN DIEGO, CA 92123-1119 (858) 654-4188 FAX: (858) 614-4519

PLAN CHECK LIST

Plan Check #:PLN-CHK-15625

Plan Review Date: 05/26/2023 Inspection Due Date: 09/28/2024

Plan Type: Tenant Improvement Estab#: EST-468

Estab Name: **Sea World: Shipwreck Reef Cafe**
500 Sea World Dr San Diego, CA 92109

Owner: Sea World, LLC

Plan Contact: Darlene Walter (619) 226-3626

Contact Company: SeaWorld.

CITY OF SAN DIEGO
FEWD PERMIT PROGRAM
GREASE REMOVAL EQUIPMENT
APPROVED
REVIEWED BY
DATE 5/26/23

KIT-13845 New Kitchen & Guest Scramble Area

Fixt#	Fixture Name	Fixture Desc. / Use	GRE Req	GRE Size	GRE ID
62	**Floor Sink**	Bar/Drinks	No		
Comment:	**(X2) GUEST BEVERAGE COUNTER AREA**				
63	**Floor Sink**	Bar/Drinks	No		
Comment:	**(X3) SODA UNITS @ GUEST BEVERAGE COUNTER AREA**				
64	**Floor Sink**	Ice	No		
Comment:	**(X) ICE MAKER SODA UNITS @ GUEST BEVERAGE COUNTER AREA**				
5	**Floor Sink**	All	Yes	750	1
Comment:	**ASSEMBLY COUNTER #5 (KITCHEN #11031)**				
8	**Cold Table**	Cookline	Yes	750	1
Comment:	**DROP-IN COLD PANS @ ASSEMBLY COUNTER #5 (KITCHEN #11031)**				
9	**Steam Table**	Cookline	Yes	750	1
Comment:	**DROP-IN HOT FOOD WELLS @ ASSEMBLY COUNTER #5 (KITCHEN #11031)**				
32	**Floor Sink**	All	Yes	750	1
Comment:	**ASSEMBLY COUNTER #32 (KITCHEN #11031)**				
8	**Cold Table**	Cookline	Yes	750	1
Comment:	**DROP-IN COLD PANS @ ASSEMBLY COUNTER #32 (KITCHEN #11031)**				
9	**Steam Table**	Cookline	Yes	750	1
Comment:	**DROP-IN HOT FOOD WELLS @ ASSEMBLY COUNTER #32 (KITCHEN #11031)**				
FD-1	**Floor Drain**	All	Yes	750	1
Comment:	**8-TOTAL @ KITCHEN #11031**				
FD-1	**Floor Drain**	Cookline	Yes	750	1
Comment:	**SUPPORT AREA #20008 FT OF DEEP FRYER/ GRILLS @ (KITCHEN #11031)**				
26	**1-Comp.Sink**	Meat/Chicken	Yes	750	1
Comment:	**SUPPORT AREA #20008 CHEF WORK SINK @ (KITCHEN #11031)**				

PRINT DATE: 05/26/23

THE CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT WASTEWATER
FOOD ESTABLISHMENT WASTEWATER DISCHARGE PERMIT PROGRAM
9150 TOPAZ WAY, SAN DIEGO, CA 92123-1119 (858) 654-4188 FAX: (858) 614-4519

FD-1	**Floor Drain**	Utility	Yes	750	1	
Comment:	**SUPPORT AREA #20009 @ (KITCHEN #11031)**					
29	**1-Comp.Sink**	Hand	Yes	750	1	
Comment:	**(X2) HAND SINKS (#29) AT BACK COUNTERS @ (KITCHEN #11031)**					
30	**Floor Trough**	Ice	Yes	750	1	
Comment:	**SUPPORT AREA #20010 FT. OF ICE MACHINES @ @ (KITCHEN #11031)**					
49	**Floor Sink**	All	Yes	5000	2	
Comment:	**ASSEMBLY COUNTER #49 (KITCHEN #11031/SCRAMBLE #20001 AREA)**					
8	**Cold Table**	Cookline	Yes	5000	2	
Comment:	**DROP-IN COLD PANS @ ASSEMBLY COUNTER #49 (KITCHEN #11031/SCRAMBLE #20001 AREA)**					
9	**Steam Table**	Cookline	Yes	5000	2	
Comment:	**DROP-IN HOT FOOD WELLS @ ASSEMBLY COUNTER #49 (KITCHEN #11031)**					
30	**Floor Trough**	Ice	Yes	5000	2	
Comment:	**SUPPORT AREA #20005 FT. OF ICE MACHINES @ (KITCHEN #11031)**					
44	**1-Comp.Sink**	Hand	Yes	5000	2	
Comment:	**HAND SINK (#44) AT BACK COUNTER @ (KITCHEN #11031/SCRAMBLE #20001 AREA)**					
46	**1-Comp.Sink**	Hand	Yes	5000	2	
Comment:	**2-TOTAL (#46) @ (KITCHEN #11031/SCRAMBLE #20001 AREA)**					
FD-1	**Floor Drain**	All	Yes	5000	2	
Comment:	**15-TOTAL @ (KITCHEN #11031/SCRAMBLE #20001 AREA)**					

*SCOPE OF WORK: For this plan check is the Renovation of Kitchen & Guest Scramble Area. Tenant improvement & updates to the guest scramble areas and the back of house (BOH) kitchen prep areas of Shipwreck Cafe.

**These Tenant improvements have grease waste lines going to two (2) different grease interceptors on site and are reflected on plumbing plans and FEWD plan check list.
***Connect fixtures indicated above (Yes) to existing grease removal equipment (#1) size 750 gallons.
NOTE: FEWD records are showing a concrete Jensen precast 750 gallon with sample box grease interceptor on site.
***Connect fixtures indicated above (Yes) to existing grease removal equipment (#2) size 5000 gallons.
NOTE: FEWD records are showing a concrete Jensen precast 5000 gallon with sample box grease interceptor on site.

IMPORTANT

PRINT DATE: 05/26/23

CITY OF SAN DIEGO
FEWD PERMIT PROGRAM
GREASE REMOVAL EQUIPMENT
APPROVED
REVIEWED BY
DATE 5/26/23

THE CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT WASTEWATER
FOOD ESTABLISHMENT WASTEWATER DISCHARGE PERMIT PROGRAM
9150 TOPAZ WAY, SAN DIEGO, CA 92123-1119 (858) 654-4188 FAX: (858) 614-4519

* This plan check identifies fixtures requiring grease removal equipment (GRE) and the required minimum size of GRE ONLY.
* All installation/plumbing must be inspected/approved by the Development Services Department(619-446-5156). This fixture list, or a copy, must be available on site during the plumbing inspection.
* You must re-submit your plans to the FEWD Permit Program if any plumbing changes are made to the plans after the plan review date.
* DISHWASHERS MAY NOT BE CONNECTED TO A GREASE INTERCEPTOR PER 2016 CALIFORNIA PLUMBING CODE. The Pre-Rinse and Quick Drain must be connected to a Grease interceptor.
* A sample box is required on all Gravity Grease Interceptors (GGI) including substitute models (SCHIER GB-75, GB-250 or Zurn Green Turtle Z-250H).
* 3 manholes are required on Gravity Grease Interceptors 1500 gallons and over, 4 total with the sample box.
* Location of Grease Removal Equipment to be determined by DEPARTMENT OF ENVIRONMENTAL HEALTH (858-505-6659).
* No suspended Grease Interceptors requiring a ladder to access will be allowed.
* Size of GRE installed should match or exceed size on Plan Check List.
* Approved Grease Intreceptors must have a PDI or IAPMO Certification or must meet ASME A112 Standards per the California Plumbing Code.

Owner/Agent Print Name Darlene K. Walter, Vice President Engineering Sea World San Diego

Owner/Agent Sign Name

PRINT DATE: 05/26/23

CITY OF SAN DIEGO
FEWD PERMIT PROGRAM
GREASE REMOVAL EQUIPMENT
APPROVED
REVIEWED BY
DATE 5/26/23

PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
300 North Broadway, Suite 1900, St. Louis, MO 63102
(314) 231-7318 WWW.PGAV.COM

REGISTERED PROFESSIONAL ENGINEER
ANATOLIY B. PRONKO
M38838
MECHANICAL
STATE OF CALIFORNIA

12/09/2022

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exp U.S. Services Inc.
t: +1.407.660.0088
f: +1.407.660.1655
2601 Westhall Lane
Maitland, FL 32751
USA
www.exp.com
Project #: #22018179-00
Cert of Auth: 29701

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REVISION SCHEDULE		
NO	DESCRIPTION	DATE
2	Revision 01	03/15/2023
4	Revision 03	06/09/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

DETAILS - PLUMBING

DATE 12/09/2022
DR RAM CK EMK
PGAV 64115-00 CLIENT SEA

SHEET NUMBER P501

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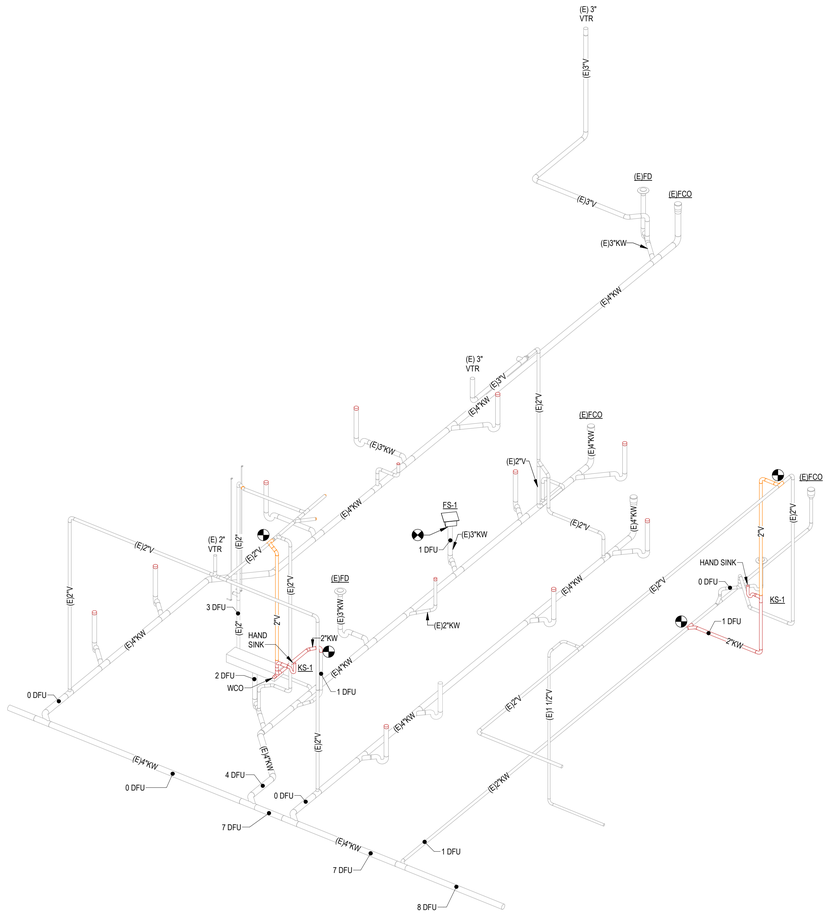
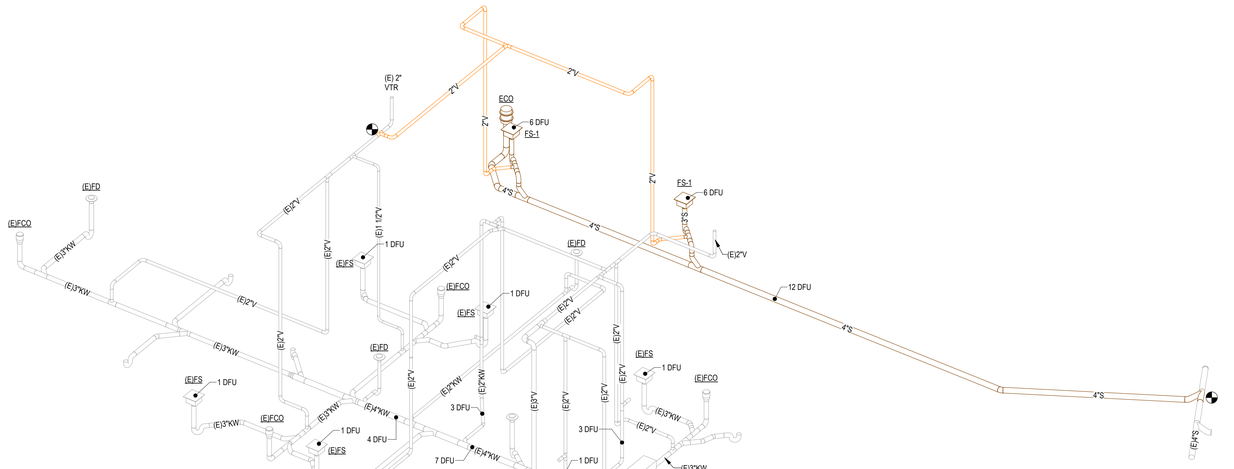
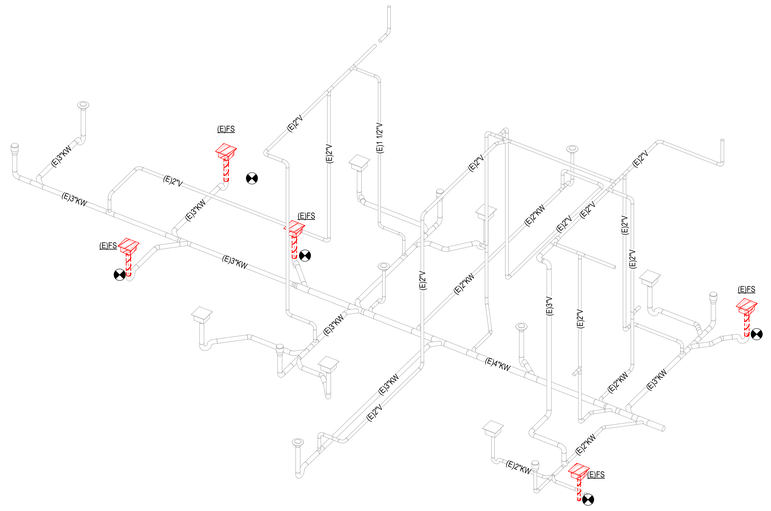
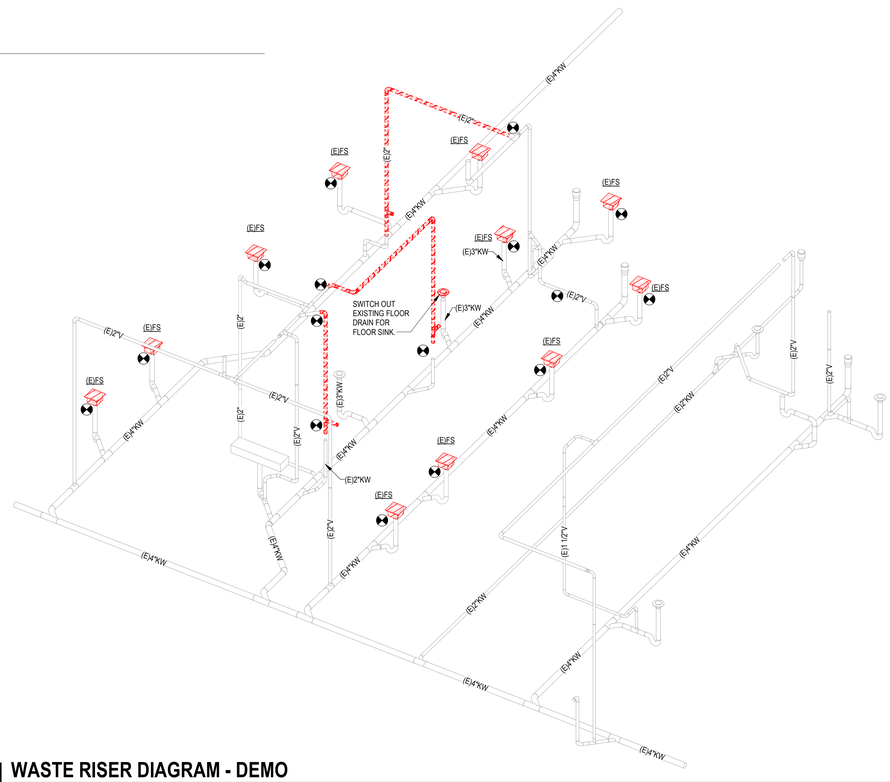


2 WASTE RISER DIAGRAM - NEW







1 WASTE RISER DIAGRAM - DEMO

PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
200 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318
WWW.PGAV.COM

REGISTERED PROFESSIONAL ENGINEER
TIMOTHY P. PENNOCK
M38636
MECHANICAL
STATE OF CALIFORNIA

12/09/2022

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t: +1.407.660.0088
f: +1.407.660.1655
2601 Westhall Lane
Maitland, FL 32751
USA
www.exp.com
Project #: #22018179-00
Cert of Auth: 29701

REVISION SCHEDULE		
NO	DESCRIPTION	DATE
2	Revision 01	03/15/2023
4	Revision 03	

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

RISER DIAGRAMS - PLUMBING

DATE	12/09/2022
DR: RAM	CK: EMK
PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER

P601

6/1/2023 11:46:26 AM
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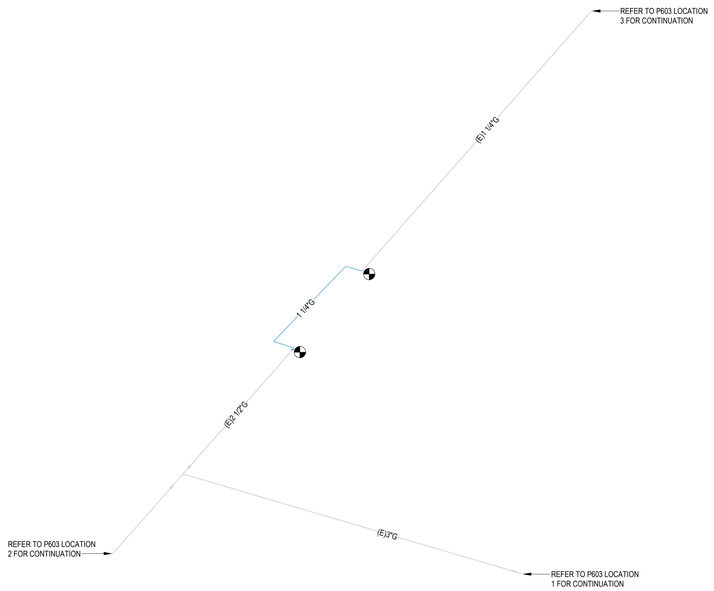
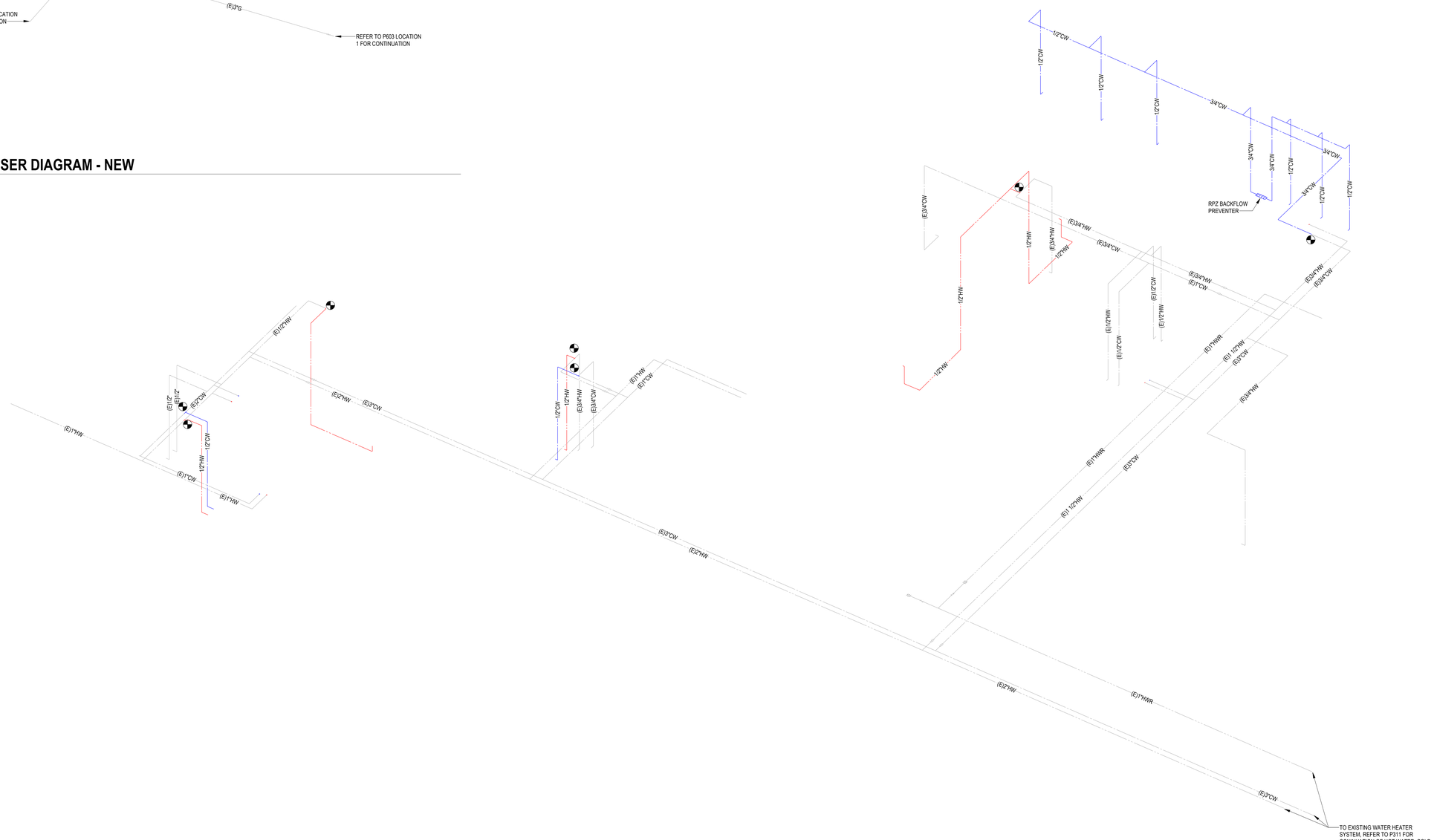


2 NATURAL GAS RISER DIAGRAM - NEW



1 DOMESTIC WATER RISER DIAGRAM - NEW

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300 North Broadway, Suite 1900, St. Louis, MO 63102
(314) 231-7318
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12/09/2022

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REVISION SCHEDULE		
NO	DESCRIPTION	DATE
2	Revision 01	03/15/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

RISER DIAGRAMS - PLUMBING

DATE 12/09/2022

DR	RAM	CK	EMK
PGAV	64115-00	CLIENT	SEA

SHEET NUMBER

P602

3/22/2023 12:28:30 PM
Autodesk Docs://64115-00 SWSD Shipwreck Cafe/22018179_SWSD Shipwreck_P.rvt

PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
2116 WOODSWETHER ROAD KANSAS CITY, MISSOURI 64114
816.361.3333 www.pgav.com

exp U.S. Services Inc.
1 +1 407 660 1655
F. +1 407 660 1655
2301 Maitland Center Pkwy
Suite 100
Maitland, FL 32751
USA
www.exp.com
Project # #220181?9-00
Cert of Auth: 29701

exp.

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REVISION SCHEDULE		
NO	DESCRIPTION	DATE
1	Addendum #1	03/14/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

RISER DIAGRAMS - PLUMBING

DATE	12/09/2022
DR	RAM
CK	EMK
PGAV	
CLIENT	64115-00
SHEET NUMBER	P603

Issue for Construction

Date April 8, 1998
Job no 640011
GAS PIPING
ISOMETRIC DIAGRAM
Sheet no P5.4

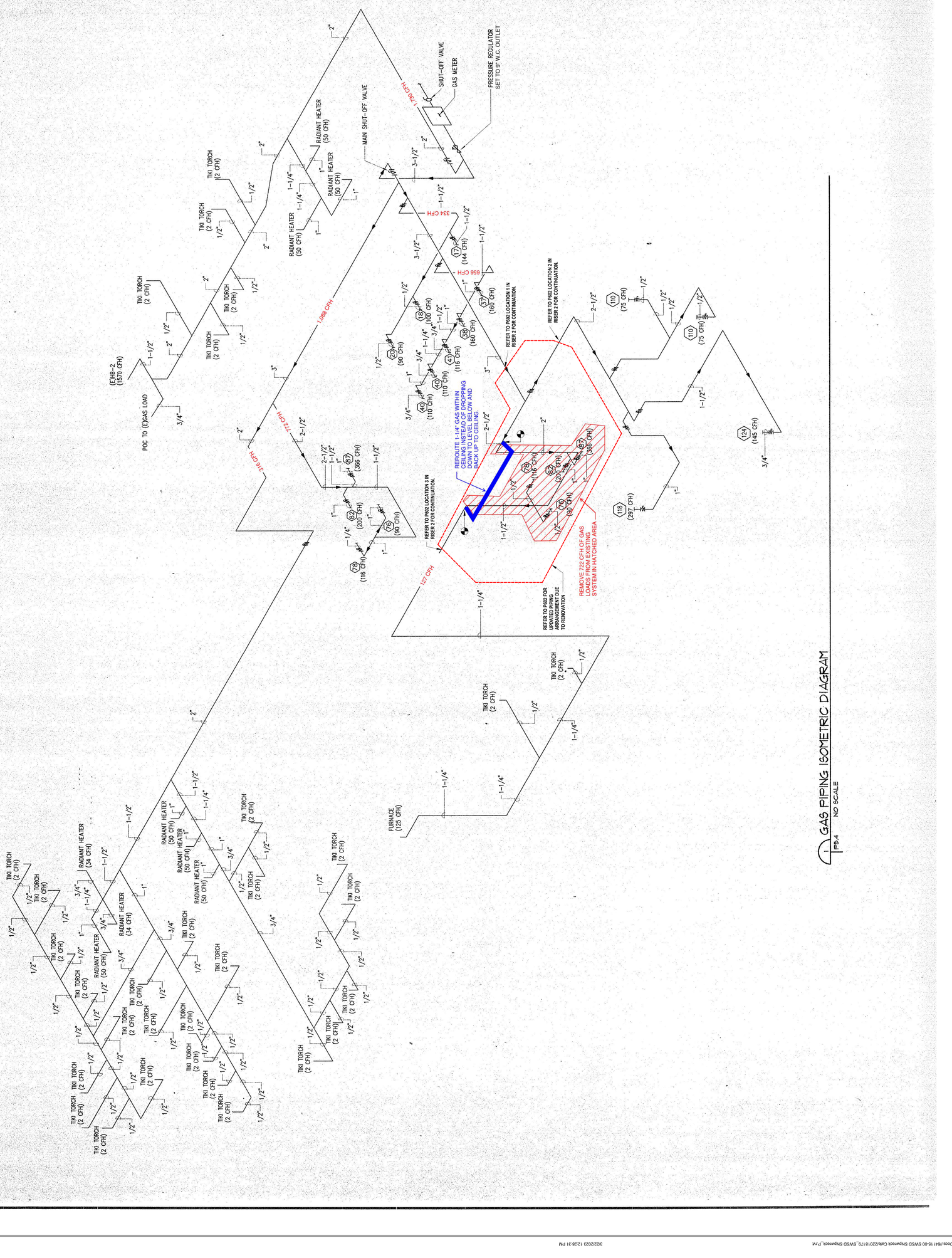
1999 Shipwreck Attraction
Sea World of California
Busch Entertainment Corporation

Revisions			
Number	Date	By	
1	4.7.98	RK	DS

Peckham Guyton Albers & Viets Inc. PGAV

RANDALL LAMB ASSOCIATES
Consulting Electrical and Mechanical Engineers
600 West Broadway • Suite 500 San Diego, CA 92101 • (619)814-4000

M:\2298\Drawings\Plot\07.14.98.13:31



1 GAS PIPING ISOMETRIC DIAGRAM
P5.4 NO SCALE

PIPING SYSTEM ABBREVIATIONS

AAV	AUTOMATIC AIR VENT	WPD	WATER PRESSURE DROP
CO	CLEAN OUT	PT	(PETE'S PLUG) TEST WELL
CV	FLOW COEFFICIENT OR CONTROL VALVE	NPSH	NET POSITIVE SUCTION HEAD
DX	DIRECT EXPANSION	NPSHA	NET POSITIVE SUCTION HEAD AVAILABLE
EWT	ENTERING WATER TEMPERATURE	NPSHR	NET POSITIVE SUCTION HEAD REQUIRED
FC	FLEXIBLE CONNECTION	OS&Y	OUTSIDE STEM AND YOKE
FCV	FLOW CONTROL VALVE	PG	PRESSURE GAUGE
FM	FLOW METER	PRV	PRESSURE REDUCING VALVE
HD	HEAD	TDH	TOTAL DYNAMIC HEAD
LWT	LEAVING WATER TEMPERATURE		
MAV	MANUAL AIR VENT		

CONTROL DIAGRAM ABBREVIATIONS

AI	ANALOG INPUT CONTROL POINT	EMS	ENERGY MANAGEMENT SYSTEM
AO	ANALOG OUTPUT CONTROL POINT	FC	FAIL CLOSED ON LOSS OF POWER
BAS	BUILDING AUTOMATION CONTROL SYSTEM	FO	FAIL OPEN ON LOSS OF POWER
BI	BINARY INPUT CONTROL POINT	NC	NORMALLY CLOSED WHEN OPERATING
BO	BINARY OUTPUT CONTROL POINT	NO	NORMALLY OPEN WHEN OPERATING
		VFD	VARIABLE FREQUENCY DRIVE

AIR SIDE SYSTEM ABBREVIATIONS

AC	AIR CONDITIONING	LAT	COIL LEAVING AIR TEMPERATURE
AF	AIR FOIL	MA	MIXED AIR
APD	AIR PRESSURE DROP	MAT	MIXED AIR TEMPERATURE
AT	AIR TERMINAL	MAU	MAKE UP AIR
BI	BACKWARD INCLINE	OA	OUTSIDE AIR
BDD	BACKDRAFT DAMPER	OAI	OUTSIDE AIR INTAKE
CD	CEILING DIFFUSER (SUPPLY)	OBD	OPPOSED BLADE DAMPER
CFM	CUBIC FEET PER MINUTE	OED	OPEN END DUCT
CV	CONSTANT VOLUME	RA	RETURN AIR
UC	UNDERCUT DOOR	RAT	RETURN AIR TEMPERATURE
DWDI	DOUBLE WIDTH DOUBLE INLET	RG	RETURN AIR GRILLE OR REGISTER
DWSI	DOUBLE WIDTH SINGLE INLET	SA	SUPPLY AIR
EA	EXHAUST AIR	SAT	SUPPLY AIR TEMPERATURE FROM UNIT
EAT	COIL ENTERING AIR OR EXHAUST AIR TEMP.	SP	STATIC PRESSURE
EG	EXHAUST AIR GRILLE	SS	STAINLESS STEEL
ER	EXHAUST AIR REGISTER	SWDI	SINGLE WIDTH DOUBLE INLET
ESP	EXTERNAL STATIC PRESSURE	SWSI	SINGLE WIDTH SINGLE INLET
F&B	FACE AND BYPASS	TG	TRANSFER AIR GRILLE
FC	FOWARD CURVE OR FLEXIBLE CONNECTION	TSP	TOTAL STATIC PRESSURE
FA	FREE AREA	VAV	VARIABLE AIR VOLUME
FPI	FINS PER INCH	WMS	WIRE MESH SCREEN
HEPA	HIGH EFFICIENCY PARTICULATE AIR FILTER		

GENERAL PROJECT NOTES:
1. THE INSTALLATION OF UPGRADED BMS CONTROLS SHALL BE BID AS AN ALTERNATE. THIS INCLUDES THE DELTA CONTROLLER AND ASSOCIATED DEVICES THROUGHOUT THE BUILDING.

GENERAL ABBREVIATIONS

°F	DEGREES FAHRENHEIT	MCC	MOTOR CONTROL CENTER
°C	DEGREES CELSIUS	MECH	MECHANICAL
ø	DIAMETER	MFR	MANUFACTURER
AD	ACCESS DOOR	MIN	MINIMUM
ADJ	ADJUSTABLE	MOCP	MAXIMUM OVERCURRENT PROTECTION
AFF	ABOVE FINISHED FLOOR	MTD	MOUNTED
AFG	ABOVE FINISHED GRADE	N/A	NOT APPLICABLE
AFR	ABOVE FINISHED ROOF	NC	NORMALLY CLOSED OR NOISE CRITERIA
ARCH	ARCHITECT	NEG	NEGATIVE
BHP	BRAKE HORSEPOWER	NIC	NOT IN CONTRACT
BOD	BOTTOM OF DUCT	NO	NORMALLY OPEN
BMS	BUILDING MANAGEMENT CONTROL SYSTEM	NTS	NOT TO SCALE
BOP	BOTTOM OF PIPE	OC	ON CENTER
BTU	BRITISH THERMAL UNIT	ODP	OPEN DRIP PROOF
BTUH	BRITISH THERMAL UNIT PER HOUR	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CLG	CEILING	OFOI	OWNER FURNISHED OWNER INSTALLED
CL	CENTERLINE	PD	PRESSURE DROP
DB	DRY BULB TEMPERATURE	PH	PHASE
DDC	DIRECT DIGITAL CONTROL	PLBG	PLUMBING
DN	DOWN	POC	POINT OF CONNECTION
DP	DIFFERENTIAL PRESSURE	POD	POINT OF DEMARCATION
DWG	DRAWING	POS	POSITION OR POSITIVE
EA	EACH	PSI	POUNDS PER SQUARE INCH
EFF	EFFICIENCY	RC	ROOM CRITERIA (NOISE)
ELEC	ELECTRICAL	RET	RETURN
EMER	EMERGENCY	RH	RELATIVE HUMIDITY
ENT	ENTERING	RM	ROOM
EQUIP	EQUIPMENT	RPM	REVOLUTIONS PER MINUTE
EXH	EXHAUST	SC	SENSIBLE COOLING
(E)	EXISTING	SCH	SCHEDULE
FA	FIRE ALARM	SH	SENSIBLE HEAT
FLR	FLOOR	SPEC	SPECIFICATION
FP	FIRE PROTECTION	SQ	SQUARE
FPM	FEET PER MINUTE	SF	SQUARE FEET
FT	FEET	SS	STAINLESS STEEL
GA	GAUGE	STD	STANDARD
GAL	GALLONS	TEFC	TOTALLY ENCLOSED FAN COOLED
GPH	GALLONS PER HOUR	TEMP	TEMPERATURE
GPM	GALLONS PER MINUTE	TON	TONS OF REFRIGERATION
GYP	GYPSUM BOARD	V	VENT
HP	HORSEPOWER	VAV	VARIABLE AIR VOLUME
HR	HOUR	VEL	VELOCITY
HZ	HERTZ	VFD	VARIABLE FREQUENCY DRIVE
ID	INSIDE DIAMETER	VTR	VENT THROUGH ROOF
IN	INCHES	W	WIDTH
KW	KILOWATT	W/	WITH
LB	POUND	W/O	WITHOUT
LF	LINEAR FEET	WB	WET BULB TEMPERATURE
LVG	LEAVING	WG	WATER GAUGE
MAX	MAXIMUM	XFMR	TRANSFORMER
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR		
MCA	MINIMUM CIRCUIT AMPS		

DEMOLITION

< C >	CAP EXISTING		DEMOLITION PIPING
< X >	EXISTING TO REMAIN		DEMOLITION EQUIPMENT OR DUCT
< R >	EXISTING TO BE REMOVED		DEMOLITION DUCT
< RL >	EXISTING TO BE RELOCATED		SUPPLY DIFFUSER DEMOLITION
< NL >	EXISTING - NEW LOCATION		RETURN REGISTER/GRILLE DEMOLITION
			EXHAUST REGISTER/GRILLE DEMOLITION

PIPING LEGEND

CHWS	CHILLED WATER SUPPLY	SLOPE	PIPE SLOPE (REFER TO PLANS FOR SLOPE)
CHWR	CHILLED WATER RETURN		AUTOMATIC AIR VENT
CWS	CONDENSER WATER SUPPLY		ANGLE VALVE - ELEVATION
CWR	CONDENSER WATER RETURN		ANGLE VALVE - PLAN
GWS	GEOTHERMAL WATER SUPPLY		BALL VALVE
GWR	GEOTHERMAL WATER RETURN		BALL VALVE W/ MEMORY STOP
GS	GLYCOL SUPPLY		BUTTERFLY VALVE
GR	GLYCOL RETURN		BUTTERFLY VALVE W/ MEMORY STOP
HWS	HEATING HOT WATER SUPPLY	M	MOTORIZED BUTTERFLY VALVE
HWR	HEATING HOT WATER RETURN		PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE (PICCV)
HPWS	HEAT PUMP WATER SUPPLY		CALIBRATED BALANCING VALVE (CIRCUIT SETTER)
HPWR	HEAT PUMP WATER RETURN		CONTROL VALVE - 2 WAY
MUW	MAKE UP WATER		CONTROL VALVE - 3 WAY
PCHWS	PROCESS CHILLED WATER SUPPLY		CHECK VALVE
PCHWR	PROCESS CHILLED WATER RETURN		DRAIN OFF VALVE (BALL VALVE W/ HOSE BIBB, CAP, & CHAIN)
CD	CONDENSATE DRAIN		FLOAT OPERATED VALVE
RL	REFRIGERANT LIQUID		PRESSURE INDEPENDENT FLOW CONTROL VALVE (FLOW LIMITER)
RS	REFRIGERANT SUCTION	FM	FLOW METER
LPS	LOW PRESSURE STEAM		FLOW METER - VENTURI
LPR	LOW PRESSURE CONDENSATE RETURN		FLOW SWITCH
HPS	HIGH PRESSURE STEAM		VALVE (2" AND SMALLER-BALL VALVE, LARGER THAN 2"-BUTTERFLY VALVE)
HPR	HIGH PRESSURE CONDENSATE RETURN		MANUAL AIR VENT
PC	PUMPED STEAM CONDENSATE		PRESSURE REDUCING VALVE
	DOUBLE LINE PIPE RISE		PRESSURE SUSTAINING VALVE
	SINGLE LINE PIPE RISE		PRESSURE GAUGE
	DOUBLE LINE PIPE DROP		PRESSURE GAUGE W/ COIL SIPHON
	SINGLE LINE PIPE DROP		PUMP (TRIANGLE INDICATES FLOW DIRECTION)
	PIPE TEE OFF THE TOP		QUICK CLOSING VALVE, FUSIBLE LINK
	PIPE TEE OFF THE BOTTOM		QUICK OPENING VALVE
	PIPE TEE OFF THE SIDE		SAFETY RELIEF VALVE
	BLIND FLANGE	S	SOLENOID VALVE
	END CAP		STRAINER W/ BLOWDOWN VALVE. HOSE BIBB, & CAP FOR 3/4". (USE GATE VALVE FOR STEAM)
	PIPE BREAK		STEAM TRAP
	DIRT LEG (MINIMUM 6")		THERMOSTATIC AIR VENT (STEAM ONLY)
CO	CLEAN OUT		THERMOMETER
	DIRECTION OF FLOW		PETE'S PLUG (TEST WELL)
	REDUCER - CONCENTRIC		UNION
	REDUCER - ECCENTRIC	V	VACUUM BREAKER
	FLEXIBLE CONNECTION		
	PIPE ANCHOR		
	PIPE GUIDE		
EJ	EXPANSION JOINT		

MECHANICAL COLOR LEGEND

COLOR	DUCT SYSTEM DESCRIPTION	COLOR	PIPING SYSTEM DESCRIPTION
	SUPPLY AIR		CHILLED WATER SUPPLY
	RETURN AIR/TRANSFER AIR		CHILLED WATER RETURN
	EXHAUST AIR		HEATING HOT WATER SUPPLY
	OUTSIDE AIR		HEATING HOT WATER RETURN
	MAKEUP AIR		CONDENSER WATER SUPPLY
			CONDENSER WATER RETURN
			CONDENSATE DRAIN
			FUEL OIL SUPPLY
			FUEL OIL RETURN

AIR SYSTEM LEGEND

	RECTANGULAR SUPPLY/ OUTSIDE AIR DUCT UP	CFM	SPACE PRESSURIZATION ARROW
	RECTANGULAR SUPPLY/ OUTSIDE AIR DUCT DOWN	UC	UNDERCUT DOOR AIRFLOW
	RECTANGULAR RETURN/ RELIEF AIR DUCT UP		SUPPLY AIRFLOW ARROW
	RECTANGULAR RETURN/ RELIEF AIR DUCT DOWN		RETURN OR EXHAUST AIRFLOW ARROW
	RECTANGULAR EXHAUST AIR DUCT UP		CEILING DIFFUSER (SUPPLY)
	RECTANGULAR EXHAUST AIR DUCT DOWN		RETURN AIR GRILLE OR REGISTER
	ROUND SUPPLY/ OUTSIDE AIR DUCT UP		EXHAUST AIR GRILLE OR REGISTER
	ROUND SUPPLY/ OUTSIDE AIR DUCT DOWN		DIFFUSER WITH FLOW DIRECTION. NO FLOW ARROWS INDICATES STANDARD 4-WAY PATTERN.
	ROUND RETURN/ RELIEF AIR DUCT UP		SIDE WALL GRILLE
	ROUND RETURN/ RELIEF AIR DUCT DOWN	H	HUMIDITY SENSOR OR HUMIDISTAT AND NUMBER
	ROUND EXHAUST AIR DUCT UP	S	SENSOR AND NUMBER
	ROUND EXHAUST AIR DUCT DOWN	SW	SWITCH AND NUMBER
	DUCT WITH LINING OR SOUND INSULATION	T	TEMPERATURE SENSOR OR THERMOSTAT & ZONE NUMBER
M	MOTORIZED CONTROL DAMPER FOR ROUND AND RECTANGULAR DUCT	T	TEMPERATURE SENSOR OR THERMOSTAT W/ VANDAL GUARD & ZONE NUMBER
BDD	BACKDRAFT DAMPER FOR ROUND AND RECTANGULAR DUCT	YR	REMOTE DAMPER OPERATOR (YOUNG REGULATOR)
FD	FIRE DAMPER FOR ROUND AND RECTANGULAR DUCT	DP	DIFFERENTIAL PRESSURE SENSOR
SD	SMOKE DAMPER FOR ROUND AND RECTANGULAR DUCT	SD	DUCT SMOKE DETECTOR
FSD	COMBINATION FIRE/SMOKE DAMPER FOR ROUND AND RECTANGULAR DUCT	SP	STATIC PRESSURE SENSOR
VD	MANUAL VOLUME DAMPER FOR ROUND AND RECTANGULAR DUCT	CO	CARBON MONOXIDE SENSOR
	FLEXIBLE CONNECTION	CO2	CARBON DIOXIDE SENSOR
		NO2	NITROGEN DIOXIDE SENSOR

CONTROL DIAGRAM LEGEND

FSD	MOTORIZED DAMPER - FIRE/ SMOKE DAMPER, 2 POSITION, SPRING CLOSED	HHL	HIGH LIMIT HUMIDITY - SWITCH
	3-WAY CONTROL VALVE	TLL	LOW LIMIT THERMOSTAT - SWITCH
	2-WAY CONTROL VALVE	THL	HIGH LIMIT THERMOSTAT - SWITCH
	BUTTERFLY CONTROL VALVE	SP	DIFFERENTIAL STATIC PRESSURE SENSOR
2	2 POSITION ACTUATOR	DP	DIFFERENTIAL PRESSURE SENSOR (ANALOG)
M	MODULATING ACTUATOR	DPS	DIFFERENTIAL PRESSURE SWITCH
2SC	2 POSITION - SPRING CLOSED	SHL	STATIC PRESSURE - HIGH LIMIT SWITCH
2SO	2 POSITION - SPRING OPEN	SLL	STATIC PRESSURE - LOW LIMIT SWITCH
MSC	MODULATING - SPRING CLOSED	FM	FLOW METER
MSO	MODULATING - SPRING OPEN	CT	CURRENT TRANSDUCER SENSOR (ANALOG)
F	FLOATING - 24VAC	CTS	CURRENT TRANSDUCER SWITCH
T	ROOM TEMPERATURE SENSOR	R	RELAY
H	ROOM HUMIDITY SENSOR	M	RELAY CONTACTOR - OPEN WITH NO CONTROL POWER
T	ROOM THERMOSTAT	M	RELAY CONTACTOR - CLOSED WITH NO CONTROL POWER
T	PIPE TEMPERATURE SENSOR		TRANSFORMER
T	DUCT TEMPERATURE SENSOR		FUSE
T	SERPENTINE TEMPERATURE SENSOR		TWISTED PAIR MULTI-SIGNAL CONTROL WIRING
H	DUCT HUMIDITY SENSOR	S P	DUCT MOUNTED SMOKE DETECTOR (S) SUPPLY DUCT MOUNTED (R) RETURN DUCT MOUNTED (I) IONIZATION (P) PHOTOELECTRIC
			HORN
			STROBE

TAGS AND CALL OUT SYMBOLS

EQUIP #	EQUIPMENT REQUIRING ELECTRICAL SERVICE. REFER TO SCHEDULES FOR PERFORMANCE REQUIREMENTS.	#	REVISION CALLOUT
EQUIP #	EQUIPMENT NOT REQUIRING ELECTRICAL SERVICE. REFER TO SCHEDULES FOR PERFORMANCE REQUIREMENTS.	X	KEYNOTE CALLOUT
	SECTION CALLOUT		POINT OF CONNECTION
1 XXX	SECTION DESIGNATION SHEET NUMBER		POINT OF DEMARCATION
A XXX	DETAIL CALLOUT DETAIL DESIGNATION SHEET NUMBER		

PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
200 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318
WWW.PGAV.COM

RECISTERED PROFESSIONAL ENGINEER
ANTHONY B. PINNOCK
M38838
MECHANICAL
STATE OF CALIFORNIA

12/09/2022

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exp U.S. Services Inc.
t: +1.407.660.0088
f: +1.407.660.1655
2601 Westhall Lane
Maitland, FL 32751
USA
www.exp.com
Project #: #220181179-00
Cert of Auth: 29701

REVISION SCHEDULE

NO	DESCRIPTION	DATE

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

SYMBOLS, LEGENDS AND ABBREVIATIONS - MECHANICAL

DATE	12/09/2022
DR: DZG	CK: JBB
PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER

M100

12/8/2022 2:02:21 PM
Autodesk Docs://64115-00 SWSD Shipwreck Cafe/220181179_SWSD Shipwreck_M.rvt

STATE OF CALIFORNIA
Process Systems
NRCC-PRC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PRC-E
Project Name:	SWSD SHIPWRECK CAFE	Report Page:	(Page 2 of 5)
Project Address:	500 SEA WORLD DR.	Date Prepared:	12/8/2022

C. COMPLIANCE RESULTS
Results in this table are automatically calculated from data input and calculations in Tables F through O. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01	02	03	04	05	06	07	08	09	10	11
Refrigerated Warehouse/ Space §120.6(a) (See Table F)	Commercial Refrigeration §120.6(b) (See Table G)	Parking Garage Exhaust §120.6(c) (See Table H)	Process Boilers §120.6(d) (See Table I)	Compressed Air Systems §120.6(e) (See Table J)	Elevators §120.6(f) (See Table K)	Escalators & Moving Walkways §120.6(g) (See Table L)	Computer Rooms §140.9(a) (See Table M)	Commercial Kitchens §140.9(b) (See Table N)	Laboratory/Factory Exhaust §140.9(c) (See Table O)	**Compliance Results**
								Yes		COMPLIES

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

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

F. REFRIGERATED WAREHOUSES/SPACES
This section does not apply to this project.

G. COMMERCIAL REFRIGERATION
This section does not apply to this project.

H. ENCLOSED PARKING GARAGE EXHAUST
This section does not apply to this project.

I. PROCESS BOILER
This section does not apply to this project.

J. COMPRESSED AIR SYSTEMS
This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-08 11:03:43

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	SWSD SHIPWRECK CAFE	Report Page:	(Page 8 of 10)
Project Address:	500 SEA WORLD DR.	Date Prepared:	12/8/2022

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector Pass	Fail
NRCI-MCH-01-E - Must be submitted for all buildings	☐	☐

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector Pass	Fail
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	AH-1; AH-2;	☐	☐
NRCA-MCH-05-A - Air Economizer Controls	AH-1; AH-2;	☐	☐
NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO_2) concentration setpoints.	AH-1;	☐	☐
NRCA-MCH-07-A Supply Fan Variable Flow Controls	AH-1; AH-2;	☐	☐
NRCA-MCH-11-A Automatic Demand Shed Controls	AH-1; AH-2;	☐	☐
NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	AH-1; AH-2;	☐	☐
NRCA-MCH-18-A Energy Management Control Systems	AH-1; AH-2;	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
There are no NRCV forms required for this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-08 11:03:43

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	SWSD SHIPWRECK CAFE	Report Page:	(Page 4 of 10)
Project Address:	500 SEA WORLD DR.	Date Prepared:	12/8/2022

I. SYSTEM CONTROLS
This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n) or requirements in §141.0(b)2E for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)[1], §120.2(a)or §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §110.12 and §120.2(b)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
AHU-1	Single zone	<= 25,000 ft²	EMCS	EMCS	NA: Serves < 25k ft²	EMCS	NA: Single Zone	NA: No operable windows
AHU-2	Single zone	<= 25,000 ft²	EMCS	EMCS	NA: Serves < 25k ft²	EMCS	NA: Single Zone	NA: No operable windows

[1] FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.
*Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d) ; EXCEPTION 1 to §140.4(f)*

J. VENTILATION AND INDOOR AIR QUALITY
This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(e)3B for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential or Hotel/Motel spaces
	☐	Check this box if the project included new or altered high-rise residential dwelling units.
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.

Nonresidential and Hotel/ Motel Ventilation Systems

04		05			06		07
System Name	AHU-1	System Design OA CFM Airflow[1]	1352	System Design Transfer Air CFM	0		Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))
08	09	10	11	12	13	14	15	16

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-08 11:03:43

STATE OF CALIFORNIA
Process Systems
NRCC-PRC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PRC-E
Project Name:	SWSD SHIPWRECK CAFE	Report Page:	(Page 5 of 5)
Project Address:	500 SEA WORLD DR.	Date Prepared:	12/8/2022

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

Documentation Author Name: Daniella Z Gutierrez	Documentation Author Signature: Daniella Gutierrez
Company: exp U.S. Services Inc.	Signature Date:
Address: 2601 Westhall Ln	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Maitland FL 32751	Phone: 6892096157

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

Responsible Designer Name: TIM PENNOCK	Responsible Designer Signature:
Company: EXP	Date Signed: 2022-12-08
Address: 330 N BRAND BLVD	License: 36636
City/State/Zip: GLENDALE CA 91203	Phone:

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Process Systems
NRCC-PRC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PRC-E
Project Name:	SWSD SHIPWRECK CAFE	Report Page:	(Page 1 of 5)
Project Address:	500 SEA WORLD DR.	Date Prepared:	12/8/2022

This document demonstrates compliance for process systems that are within the scope of the permit application and are regulated by mandatory requirements in §120.6 or prescriptive requirements in §140.9. This compliance document is used for newly constructed, addition and alteration projects.

A. GENERAL INFORMATION

01	Project Location (city)	SAN DIEGO	04	Total Conditioned Floor Area	6475
02	Climate Zone	7	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1
☐	Office	☐ Retail	☐	Non-refrigerated Warehouse	
☐	Hotel/ Motel	☐ School	☐	Healthcare Facility	
☐	High-Rise Residential	☐ Relocatable Class Bldg	☒	Other (write in)	

B. PROJECT SCOPE
This table includes process systems that are within the scope of the permit application and are demonstrating compliance with mandatory requirements in §120.6 or prescriptive requirements in §140.9.

My project consists of: (check all that apply):

01		02	
☐	Refrigerated Spaces <3,000 ft² Total (no Title 24, PIE requirements)	☐	Elevator Lighting & Ventilation Controls (mandatory §120.6(f))
☐	Refrigerated Spaces >=3,000 ft² Total (mandatory §120.6(a))	☐	Escalator & Moving Walkway Speed Controls (mandatory §120.6(g))
☐	Food Stores >8,000 ft² cfa (mandatory §120.6(b))	☐	Computer Rooms >20 W/ ft² Power Density (prescriptive §140.9(a))[1]
☐	Enclosed Parking Garage Exhaust >=10,000+ cfm (mandatory §120.6(c))	☒	Commercial Kitchen Ventilation/Exhaust (prescriptive §140.9(b))[1]
☐	Newly Installed Process Boilers (mandatory §120.6(d))	☐	Laboratory Exhaust/Factory Exhaust & Fume Hood (prescriptive §140.9(c))[1]
☐	Compressed Air Systems Combined HP >= 25 (mandatory §120.6(e))		

[1] FOOTNOTES: These building features can comply using the performance method. If using the performance method for these features, compliance should be demonstrated on the NRCC-PRF-E.

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	SWSD SHIPWRECK CAFE	Report Page:	(Page 10 of 10)
Project Address:	500 SEA WORLD DR.	Date Prepared:	12/8/2022

L. DISTRIBUTION (DUCTWORK and PIPING)

		☐	In other unconditioned spaces
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code	

The answers to the questions below apply to the following duct systems: AHU-2 | Duct leakage testing triggered for these systems? | No

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:
		☐ Outdoors
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces
		☐ In an unconditioned crawl space
		☐ In other unconditioned spaces
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code

M. COOLING TOWERS
This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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Mechanical Systems
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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	SWSD SHIPWRECK CAFE	Report Page:	(Page 7 of 10)
Project Address:	500 SEA WORLD DR.	Date Prepared:	12/8/2022

H. FAN SYSTEMS & AIR ECONOMIZERS
This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e) and §140.4(m) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name:	AHU-1	Economizer[1]	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Variable Air Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
SF	Supply	1	3400	BHP	7.5	N/A	N/A
RF	Return	1	0	BHP	2	N/A	N/A
Total System Design Supply Airflow (CFM):		3400	Total System Design (B)HP:		9.5	**Maximum System Fan Power (B)HP:**	4.42

System Name:	AHU-2	Economizer[1]	Differential Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Variable Air Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
SF	Supply	1	12810	BHP	20	N/A	N/A
RF	Return	1	0	BHP	7.5	N/A	N/A
Total System Design Supply Airflow (CFM):		12810	Total System Design (B)HP:		27.5	**Maximum System Fan Power (B)HP:**	16.65

[1] FOOTNOTES: Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document.
[2] The unit used for HP must be consistent for all fans within a system.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Process Systems
NRCC-PRC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PRC-E
Project Name:	SWSD SHIPWRECK CAFE	Report Page:	(Page 4 of 5)
Project Address:	500 SEA WORLD DR.	Date Prepared:	12/8/2022

N. COMMERCIAL KITCHEN EXHAUST AND VENTILATION
Kitchen Exhaust: Airflow Rate §140.9(b)1B

01	Kitchen Name or Item Tag	Kitchen	Compliance Method per §140.9(b)1B		NA: Kitchen/ dining facility has a total Type I and Type II kitchen hood exhaust airflow rate <= 5,000 cfm	
02	03	04	05	06	07	08
Name or Item Tag	Hood Type[1]	Hood Style	Hood Length (ft)	Equipment Duty	Design Hood Exhaust Rate CFM	Max Hood Exhaust Rate Allowed CFM
	Type I	Wall-mounted Canopy	10	Medium Duty	1575	2100
	Type I	Wall-mounted Canopy	10	Medium Duty	1850	2100

[1] FOOTNOTES: Type II hoods do not have a max hood exhaust air rate per §140.9(b)1B

O. LABORATORY AND FACTORY EXHAUST AND FUME HOODS
This section does not apply to this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector Pass	Fail
NRCI-PRC-01-E - Covered Process	☐	☐

Q. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector Pass	Fail
NRCA-PRC-02-F Kitchen Exhaust	☐	☐	

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Process Systems
NRCC-PRC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PRC-E
Project Name:	SWSD SHIPWRECK CAFE	Report Page:	(Page 3 of 5)
Project Address:	500 SEA WORLD DR.	Date Prepared:	12/8/2022

K. ELEVATOR LIGHTING AND VENTILATION
This section does not apply to this project.

L. ESCALATORS AND MOVING WALKWAYS SPEED CONTROLS
This section does not apply to this project.

M. COMPUTER ROOM SYSTEM SUMMARY
This section does not apply to this project.

N. COMMERCIAL KITCHEN EXHAUST AND VENTILATION
This table contains all new and replacement hoods being installed within the scope of the permit application. Table N is used to demonstrate compliance with prescriptive requirements found in §140.9(b).

Kitchen Ventilation §140.9(b)2

01	☐	Existing kitchen hoods not being replaced as part of an addition or alteration (do not need to meet requirements)
		Requirements
02		Replacement Air to Hood Compliance Method §140.9(b)1A
		Not providing replacement air directly to the hood(s)
03		Mechanically cooled or heated makeup air delivered to any space with a kitchen hood is designed per 140.9(b)2A to not exceed the greater of:
		The supply flow required to meet the space heating and cooling load
04		Location that is supplying transfer air
05		The kitchen/ dining facility has a total Type I and Type II kitchen hood exhaust airflow > 5000 cfm and is designed to have one of the following per 140.9(b)2B:
		NA: Not a kitchen/ dining facility having a total Type I and Type II kitchen hood exhaust airflow rate > 5,000 cfm

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STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
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Q. MANDATORY MEASURES DOCUMENTATION LOCATION
This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01	02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes
	M-Sheets

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Mechanical Systems
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CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	SWSD SHIPWRECK CAFE	Report Page:	(Page 5 of 10)
Project Address:	500 SEA WORLD DR.	Date Prepared:	12/8/2022

J. VENTILATION AND INDOOR AIR QUALITY

Space Name: ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [1] Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[3]	Required Min OA CFM	Exh. Vent per §120.1(c)4 Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
ENTRY	Cafeteria/ fastfood dining	666			333	0	0	DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Not required space type
SCRAMBLE	Cafeteria/ fastfood dining	2039			1019.5	0	0	DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				1352	18	Ventilation for this System Complies?		Yes

04		05			06		07
System Name	AHU-2	System Design OA CFM Airflow[3]	12810	System Design Transfer Air CFM	0		Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))
08	09	10	11	12	13	14	15	16

Space Name: ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [1] Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[3]	Required Min OA CFM	Exh. Vent per §120.1(c)4 Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
KITCHEN/SERVING	Kitchen (cooking)	3770			565.5	2639	12810	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				566	18	Ventilation for this System Complies?		Yes

[1] FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system

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Mechanical Systems
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CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	SWSD SHIPWRECK CAFE	Report Page:	(Page 6 of 10)
Project Address:	500 SEA WORLD DR.	Date Prepared:	12/8/2022

J. VENTILATION AND INDOOR AIR QUALITY
[2] Air filtration requirements apply to the following three system types per §120.1(c)1A : space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.
[3] Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
[4] See Standards Tables 120.1-A and 120.1-B.
[5] For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.
[6] §120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).

K. TERMINAL BOX CONTROLS
This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)
This table is used to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §160.4(f) for duct leakage testing.

Duct Leakage Sealing

The answers to the questions below apply to the following duct systems: AHU-1 | Duct leakage testing triggered for these systems? | No

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:
		☐ Outdoors
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces
		☐ In an unconditioned crawl space

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Mechanical Systems
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CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	SWSD SHIPWRECK CAFE	Report Page:	(Page 2 of 10)
Project Address:	500 SEA WORLD DR.	Date Prepared:	12/8/2022

C. COMPLIANCE RESULTS
Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary §110.1, §110.2, §160.4	AND	Pumps §140.4(k)	AND	Fans/ Economizers §140.4(c), §140.4(e)	AND	System Controls §110.2, §120.2, §140.4(f)	AND	Ventilation §120.1	AND	Terminal Box Controls §140.4(d)	AND	Distribution §120.3, §140.4(l)	AND	Cooling Towers §110.2(d)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
	AND		AND	No	AND	Yes	AND	Yes	AND		AND	Yes	AND		COMPLIES
Mandatory Measures Compliance (See Table C) for Details)														COMPLIES	

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

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

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
This section does not apply to this project.

G. PUMPS
This section does not apply to this project.

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Mechanical Systems
NRCC-MCH-E
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CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	SWSD SHIPWRECK CAFE	Report Page:	(Page 1 of 10)
Project Address:	500 SEA WORLD DR.	Date Prepared:	12/8/2022

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

A. GENERAL INFORMATION

01	Project Location (city)	SAN DIEGO	04	Total Conditioned Floor Area	6475
02	Climate Zone	7	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1
☐	Office (B)	☐ Retail (M)	☐	Non-refrigerated Warehouse (S)	
☐	Hotel/ Motel Guest Rooms (R-1)	☐ School (E)	☐	Healthcare Facility (I)	
☐	High-Rise Residential (R-2/R-3)	☐ Relocatable Class Bldg (E)	☒	Other (write in)	See Table J

B. PROJECT SCOPE
This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4 or §141.0(b)2 for alterations.

01		02		03	
	Air System(s)		Wet System Components		Dry System Components
☐	Heating Air System	☐	Water Economizer	☒	Air Economizer
☐	Cooling Air System	☐	Pumps	☐	Electric Resistance Heat
	Mechanical Controls	☐	System Piping	☒	Fan Systems
☒	Mechanical Controls (existing to remain, altered or new)	☐	Cooling Towers	☒	Ductwork (existing to remain, altered or new)
		☐	Chillers	☒	Ventilation
		☐	Boilers	☐	Zonal Systems/ Terminal Boxes

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
200 York Broadway, Suite 1000, St Louis, MO 63122
(314) 231-7318
WWW.PGAV.COM

RICHARD B. PENNOCK — NUMBER M38638 — MECHANICAL — STATE OF CALIFORNIA

12/09/2022

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND DO NOT APPLY TO ANY REVISED VERSIONS OF THE DOCUMENT, OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS PREPARED FOR THE PROJECT BUT NOT INTENDED TO BE USED FOR ANY PART OF PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

exp U.S. Services Inc.
t: +1.407.660.0088
f: +1.407.660.1655
2601 Westhall Lane
Maitland, FL 32751
USA
www.exp.com
Project #: #22018179-00
Cert of Auth: 29701

REVISION SCHEDULE

| NO | DESCRIPTION

GENERAL NOTES:

1 ALL EXISTING MECHANICAL EQUIPMENT AND DEVICE LAYOUT(S) SHOWN ON PLAN ARE TAKEN FROM AS-BUILT DRAWINGS PROVIDED BY THE OWNER AND HAVE BEEN GENERALLY VERIFIED. CONTRACTOR TO VERIFY ALL AREAS OF DEMOLITION PRIOR TO BID.

2 HVAC EQUIPMENT, PIPING, AND CONNECTIONS SHOWN ON THE DEMOLITION PLANS ARE INTENDED TO GIVE THE CONTRACTOR A GENERAL IDEA OR COUNT OF WHAT EQUIPMENT IS BEING REMOVED, DISCONNECTED, OR RETAINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD INSPECTION OF THE SITE TO DETERMINE ACTUAL CONDITIONS OF THE INSTALLATION AND QUANTITIES OF THE EXISTING EQUIPMENT BEFORE SUBMITTING BID.

3 IF CONTRACTOR DISCOVERS FURTHER ITEMS THAT APPEAR TO BE CAPABLE OF BEING DEMOLISHED, CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND PROVIDE INFORMATION AS TO WHAT THIS SYSTEM IS PRESENTLY SERVING UP TO THE END OF THE SYSTEM FOR ENGINEER REVIEW AND DIRECTION.

4 ALL EXISTING EQUIPMENT AND DEVICE LAYOUT(S) SHOW ON PLAN SHALL REMAIN UNLESS NOTED OTHERWISE.

KEY NOTES

001 DEMO ALL EXISTING DUCTWORK, DIFFUSERS, AND GRILLES IN THE HATCHED AREA UNLESS OTHERWISE INDICATED UP TO ROOFTOP EQUIPMENT CONNECTION. ALL EXISTING CHILLED WATER PIPING AND HOT WATER PIPE TO REMAIN UNLESS OTHERWISE INDICATED.

1 CAFÉ - DEMO FLOOR PLAN - MECHANICAL
M201 | SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 32'

PLAN NORTH

PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
202 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318 WWW.PGAV.COM

RECOGNIZED PROFESSIONAL ENGINEER
ANASTASIOS P. PAPANDROS
M35636
MECHANICAL
STATE OF CALIFORNIA

12/09/2022

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exp U.S. Services Inc.
t: +1.407.660.0088
f: +1.407.660.1655
2601 Westhall Lane
Maitland, FL 32751
USA
www.exp.com
Project #: #22018179-00
Cert of Auth: 29701

REVISION SCHEDULE		
NO	DESCRIPTION	DATE

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

CAFÉ - DEMO FLOOR PLAN - MECHANICAL

DATE	12/09/2022
DR: DZG	CK: JBB
PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER

M201

12/6/2022 2:02:24 PM

Autodesk Docs://64115-00 SWSD Shipwreck Cafe/22018179_SWSD Shipwreck_M.rvt

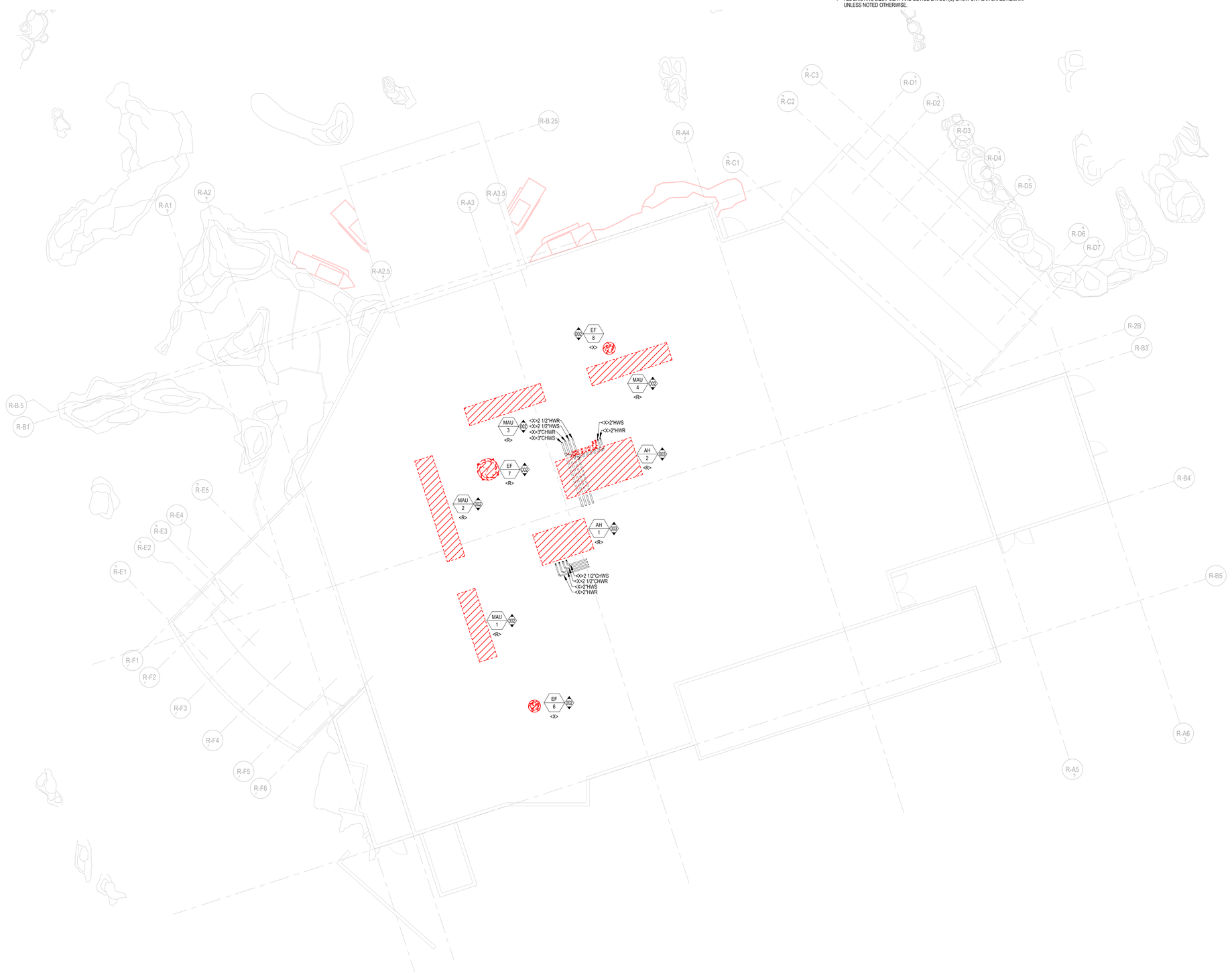
GENERAL NOTES:

1. ALL EXISTING MECHANICAL EQUIPMENT AND DEVICE LAYOUT(S) SHOWN ON PLAN ARE TAKEN FROM AS-BUILT DRAWINGS PROVIDED BY THE OWNER AND HAVE BEEN GENERALLY VERIFIED. CONTRACTOR TO VERIFY ALL AREAS OF DEMOLITION PRIOR TO BID.
2. HVAC EQUIPMENT, PIPING, AND CONNECTIONS SHOWN ON THE DEMOLITION PLANS ARE INTENDED TO GIVE THE CONTRACTOR A GENERAL IDEA OR COUNT OF WHAT EQUIPMENT IS BEING REMOVED, DISCONNECTED, OR RETAINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD INSPECTION OF THE SITE TO DETERMINE ACTUAL CONDITIONS OF THE INSTALLATION AND QUANTITIES OF THE EXISTING EQUIPMENT BEFORE SUBMITTING BID.
3. IF CONTRACTOR DISCOVERS FURTHER ITEMS THAT APPEAR TO BE CAPABLE OF BEING DEMOLISHED, CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND PROVIDE INFORMATION AS TO WHAT THIS SYSTEM IS PRESENTLY SERVING UP TO THE END OF THE SYSTEM FOR ENGINEER REVIEW AND DIRECTION.
4. ALL EXISTING EQUIPMENT AND DEVICE LAYOUT(S) SHOW ON PLAN SHALL REMAIN UNLESS NOTED OTHERWISE.

KEY NOTES

002 DEMO EXISTING EQUIPMENT AND DUCTWORK. PIPING TO BE REMOVED BACK TO INSIDE THE BUILDING, WHERE PIPING IS TO BE VALVED AND CAPPED. CAP EXISTING CURB, SEE DETAIL FOR ADDITIONAL INFORMATION.

003 DEMO EXISTING EQUIPMENT AND CURB. NEW CURB WILL BE PROVIDED WITH THE NEW UNIT.



1 CAFÉ -DEMO ROOF PLAN - MECHANICAL
M231 | SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 32'

PLAN NORTH

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(314) 231-7318 WWW.PGAV.COM

REGISTERED PROFESSIONAL ENGINEER
TIMOTHY P. PENNOCK
M35636
MECHANICAL
STATE OF CALIFORNIA

12/09/2022

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f: +1.407.660.1655
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USA
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CAFÉ - DEMO ROOF PLAN - MECHANICAL

DATE	12/09/2022
DR: DZG	CK: JBB
PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER

M231

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KEY NOTES

201 LINEAR SLOTS TO APPEAR CONTINUOUS, PROVIDE BLANKOFF SECTION BETWEEN DIFFUSERS.

1 CAFÉ - FLOOR PLAN - MECHANICAL
M311 | SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 32'

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(314) 231-7318
WWW.PGAV.COM

RECOGNIZED PROFESSIONAL ENGINEER
ASHLEIGH P. PANNOCK
M39636
MECHANICAL
STATE OF CALIFORNIA

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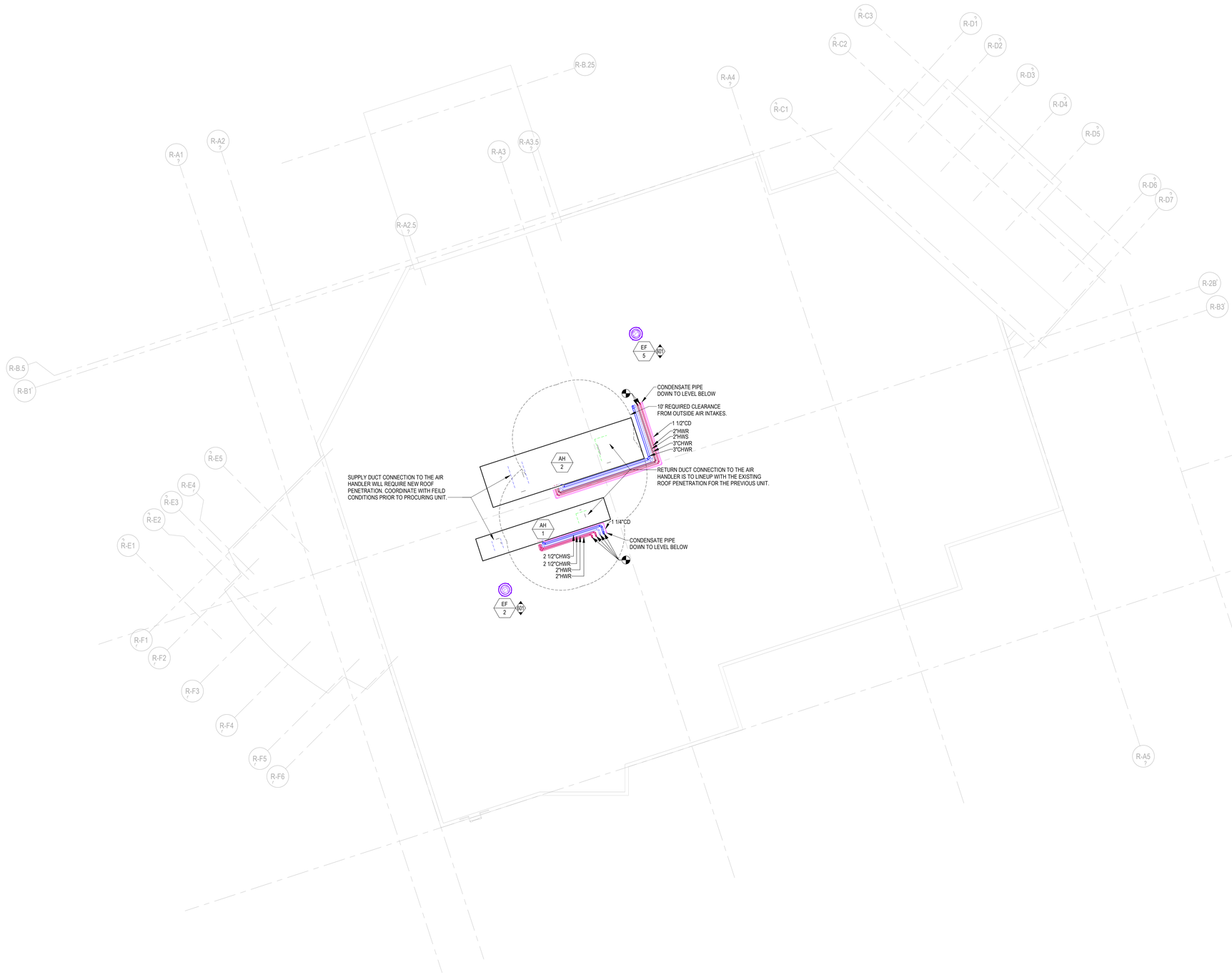
KEY NOTES

601 NEW EXHAUST FAN TO UNTILIZE EXISTING CURB.



1 CAFÉ - ROOF PLAN - MECHANICAL

M331 | SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 32'

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200 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318
WWW.PGAV.COM

REGISTERED PROFESSIONAL ENGINEER
ANASTASIA P. PENNOCK
M35636
MECHANICAL
STATE OF CALIFORNIA

12/09/2022

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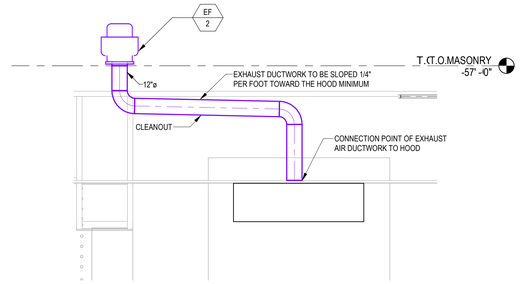
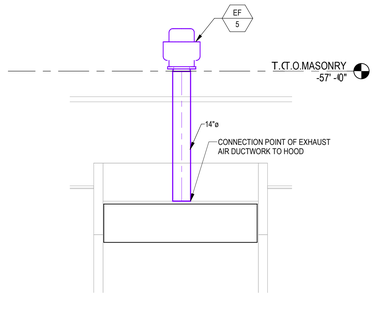


2 EXHAUST RISER SECTION - HOOD 2

1/4" = 1'-0"



1 EXHAUST RISER SECTION - HOOD 1

1/4" = 1'-0"

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(314) 231-7318 WWW.PGAV.COM

REGISTERED PROFESSIONAL ENGINEER
TIMOTHY B. PENNOCK
M38636
MECHANICAL
STATE OF CALIFORNIA

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HOOD DRAWINGS - MECHANICAL

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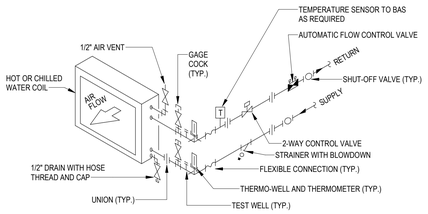
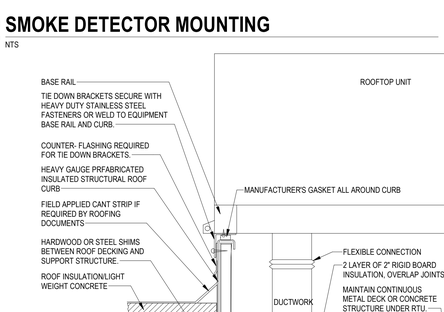


NOTES:
1. REFER TO CONTROL SEQUENCES, DIAGRAMS AND SPECIFICATIONS FOR CONTROL VALVE TYPE.
2. REFER TO EQUIPMENT CONTROL DIAGRAMS FOR BAS TEMPERATURE SENSOR REQUIREMENT.
3. THERMO-WELL, THERMOMETER AND GAGE COCKS ARE REQUIRED FOR AIR HANDLING UNITS ONLY.
4. FOR WATER (NON-GLYCOL) COILS SUBJECT TO FREEZING PROVIDE AN IMMERSION AQUASTAT WELL.
5. COIL CONNECTIONS SHALL BE ARRANGED TO ACCOMMODATE COIL PULL AND ISOLATE COIL PIPING FROM SYSTEM. WATER FLOW IS COUNTER TO AIRFLOW.
6. PROVIDE DRAIN AND VENT VALVES AT COILS.
7. APPLICABLE FOR HOT WATER AND CHILLED WATER.

14 TWO-WAY VALVE WATER COIL

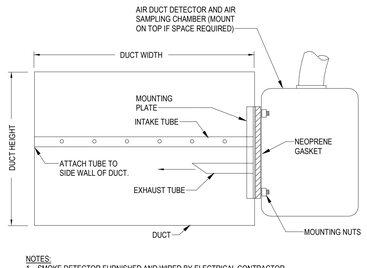
NTS



NOTES:
1. REFER TO ROOF CURB DETAIL FOR ATTACHMENT OF CURB TO STRUCTURE.
2. PROVIDE CURB AND FASTENERS PER CONTRACTOR OR MANUFACTURER ENGINEER'S CALCULATIONS BASED UPON EXACT EQUIPMENT SIZE, WEIGHT, LOCATION AND PROJECT SPECIFIC SEISMIC AND WIND LOADS.
3. PROVIDE FASTENERS TO CURB 4" FROM EACH CORNER AND AT CENTER POINTS WITH ADDITIONAL CONNECTIONS TO MEET PROJECT SPECIFIC SEISMIC AND WIND LOADS.

13 UPBLAST KITCHEN HOOD EXHAUST FAN

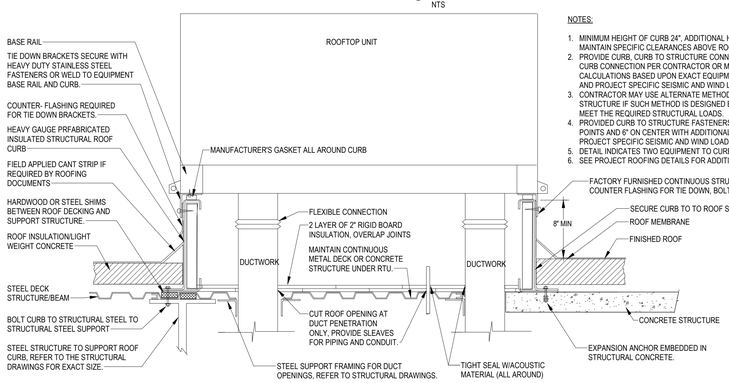
NTS



NOTES:
1. SMOKE DETECTOR FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR, AND MOUNTED BY MECHANICAL CONTRACTOR.
2. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. PROVIDE ACCESS DOOR AT SAMPLING TUBES.
4. THE TUBES SHALL BE INSTALLED PARALLEL TO LONG DIMENSION OF DUCT.
5. PRODUCT SHALL BE UL268A LISTED.

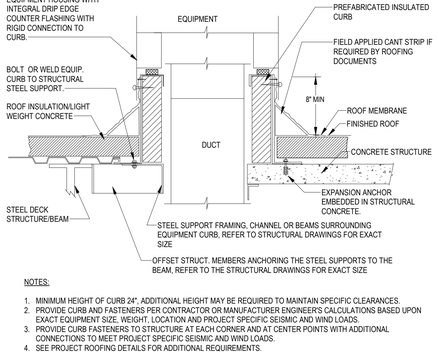
12 SMOKE DETECTOR MOUNTING

NTS



8 ROOFTOP UNIT MOUNTING - TIE DOWN CURB

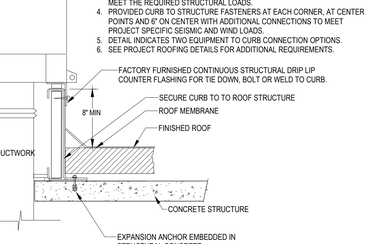
NTS



NOTES:
1. MINIMUM HEIGHT OF CURB 24", ADDITIONAL HEIGHT MAY BE REQUIRED TO MAINTAIN SPECIFIC CLEARANCES.
2. PROVIDE CURB AND FASTENERS PER CONTRACTOR OR MANUFACTURER ENGINEER'S CALCULATIONS BASED UPON EXACT EQUIPMENT SIZE, WEIGHT, LOCATION AND PROJECT SPECIFIC SEISMIC AND WIND LOADS.
3. PROVIDE CURB FASTENERS TO STRUCTURE AT EACH CORNER AND AT CENTER POINTS WITH ADDITIONAL CONNECTIONS TO MEET PROJECT SPECIFIC SEISMIC AND WIND LOADS.
4. SEE PROJECT ROOFING DETAILS FOR ADDITIONAL REQUIREMENTS.

11 ROOF CURB

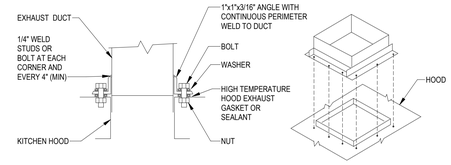
NTS



NOTES:
1. MINIMUM HEIGHT OF CURB 24", ADDITIONAL HEIGHT MAY BE REQUIRED TO MAINTAIN SPECIFIC CLEARANCES ABOVE ROOF INSULATION.
2. PROVIDE CURB, CURB TO STRUCTURE CONNECTION AND EQUIPMENT TO CURB CONNECTION PER CONTRACTOR OR MANUFACTURER ENGINEER'S CALCULATIONS BASED UPON EXACT EQUIPMENT SIZE, WEIGHT, LOCATION AND PROJECT SPECIFIC SEISMIC AND WIND LOADS.
3. CONTRACTOR MAY USE ALTERNATE METHOD OF ATTACHING UNIT TO ROOF STRUCTURE IF SUCH METHOD IS DESIGNED BY A LICENSED ENGINEER TO MEET THE REQUIRED STRUCTURAL LOADS.
4. PROVIDED CURB TO STRUCTURE FASTENERS AT EACH CORNER, AT CENTER POINTS AND 6" ON CENTER WITH ADDITIONAL CONNECTIONS TO MEET PROJECT SPECIFIC SEISMIC AND WIND LOADS.
5. DETAIL INDICATES TWO EQUIPMENT TO CURB CONNECTION OPTIONS.
6. SEE PROJECT ROOFING DETAILS FOR ADDITIONAL REQUIREMENTS.

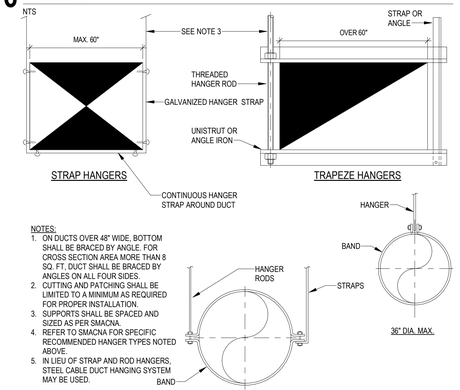
10 EXISTING CURB CAP WITH BURGLAR BARS

NTS



9 EXHAUST DUCT CONNECTION TO KITCHEN HOOD

NTS



6 NUMBER AND SPACING OF DUCT SPLITTER VANES

NTS

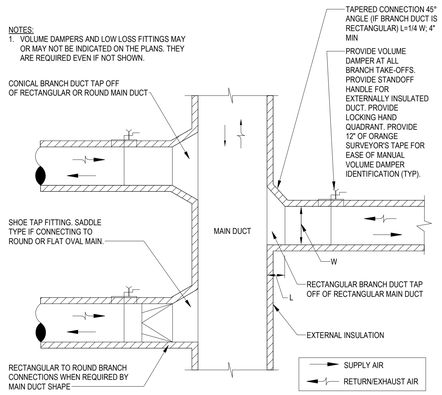
NOTES:
1. ON DUCTS OVER 48" WIDE, BOTTOM SHALL BE BRACED BY ANGLE. FOR CROSS SECTION AREA MORE THAN 8 SQ. FT, DUCT SHALL BE BRACED BY ANGLES ON ALL FOUR SIDES.
2. CUTTING AND PATCHING SHALL BE LIMITED TO A MINIMUM AS REQUIRED FOR PROPER INSTALLATION.
3. SUPPORTS SHALL BE SPACED AND SIZED AS PER SMACNA.
4. REFER TO SMACNA FOR SPECIFIC RECOMMENDED HANGER TYPES NOTED ABOVE.
5. IN LIEU OF STRAP AND ROD HANGERS, STEEL CABLE DUCT HANGING SYSTEM MAY BE USED.

5 DUCT HANGER SUPPORT

NTS

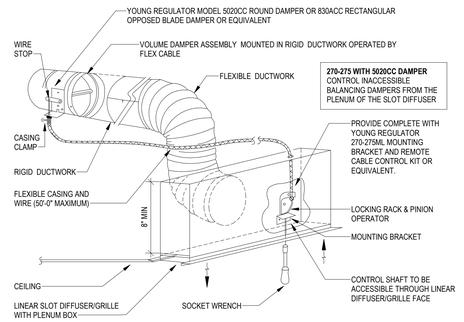
7 BRANCH DUCT

NTS

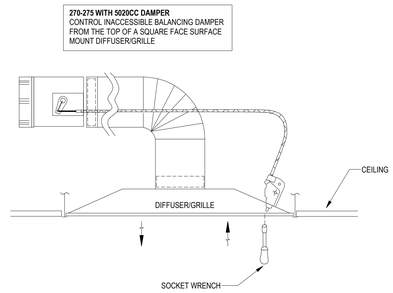


4 DIFFUSER / GRILLE WITH REMOTELY OPERATED BALANCING DAMPER

NTS

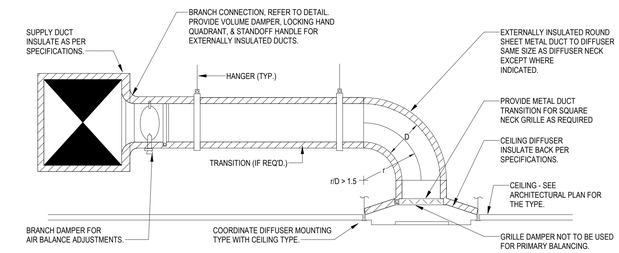


NOTES:
1. REFER TO PLANS AND SCHEDULE FOR FLOW DIRECTION OF DIFFUSER/GRILLE.
2. DAMPER OPERATOR IS PROHIBITED TO BE INSTALLED IN THE DIFFUSER/REGISTER PLENUM NECK. DAMPER SHALL BE LOCATED IN THE DIFFUSER RUNOUT AT THE BRANCH TAKEOFF.
3. INSTALL REMOTE DAMPER OPERATORS FOR ALL VOLUME DAMPERS IN INACCESSIBLE CEILING LOCATIONS.



3 CEILING DIFFUSER - RIGID DUCT

NTS



NOTES:
1. THIS DETAIL ALSO APPLIES TO RETURN & EXHAUST.
2. VISIBLE INSIDES OF DUCT SHALL BE PAINTED FLAT BLACK.
3. FOR BRANCHES OFF ROUND OF FLAT DUCT, USE SADDLE TYPE CONNECTION.
4. IF r/D > 1.5 CAN NOT FIT, THEN r/D > 1.0 IS FIRST ALTERNATE AND ALTERNATE 2 IS MITERED WITH TURNING VANES.
5. PROVIDE RIGID DUCT FOR CRITICAL CARE AREAS - OPERATING ROOMS, DELIVERY ROOMS, & CRITICAL CARE UNITS.

2 CEILING DIFFUSER - FLEXIBLE DUCT POLY TYPE LINING

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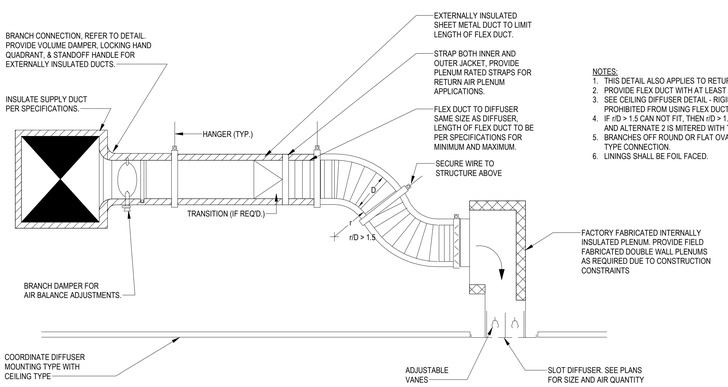

NOTES:
1. THIS DETAIL ALSO APPLIES TO RETURN.
2. PROVIDE FLEX DUCT WITH AT LEAST ONE 90° RADIUS ELBOW.
3. SEE CEILING DIFFUSER DETAIL - RIGID DUCT FOR LOCATION PROHIBITED FROM USING FLEX DUCT.
4. IF r/D > 1.5 CAN NOT FIT, THEN r/D > 1.0 IS FIRST ALTERNATE AND ALTERNATE 2 IS MITERED WITH TURNING VANES.
5. BRANCHES OFF ROUND OR FLAT OVAL DUCT, USE SADDLE TYPE CONNECTION.
6. LININGS SHALL BE FOIL FACED.

1 LINEAR DIFFUSER CONNECTION WITH MANUFACTURER'S PLENUM

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PECKHAM GUYTON ALBERS & VIETS, INC.
220 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318 WWW.PGAV.COM

REGISTERED PROFESSIONAL ENGINEER
TIMOTHY B. PINNOCK
M36836
MECHANICAL
STATE OF CALIFORNIA

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CK	JBB
PGAV	64115-00
CLIENT	SEA

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300 North Broadway, Suite 1000, St Louis, MO 63102
(314) 231-7318
WWW.PGAV.COM

REGISTERED PROFESSIONAL ENGINEER
ANTHONY P. PANNOCO
M39836
MECHANICAL
STATE OF CALIFORNIA

12/09/2022

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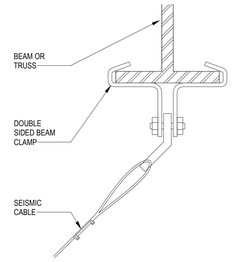
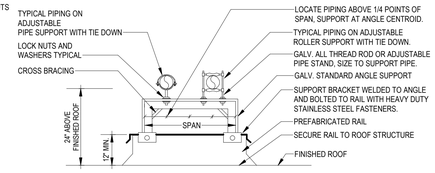


4 SEISMIC CABLE CONNECTION TO DOUBLE SIDED BEAM CLAMP

NTS



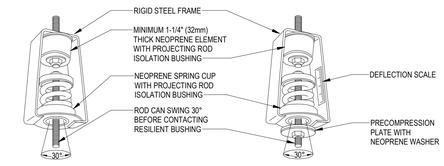
NOTES:
1. REFER TO EQUIPMENT RAIL DETAIL FOR ATTACHMENT OF RAIL TO STRUCTURE.
2. PROVIDE ADDITIONAL HEIGHT ON RAILS TO ACHIEVE MINIMUM 12" HEIGHT ABOVE ROOF FOR WIND AND SEISMIC LOADS.
3. PROVIDE PIPE STAND, SUPPORTING BEAMS AND FASTENERS PER CONTRACTOR OR MANUFACTURER ENGINEER'S CALCULATIONS BASED UPON EXACT PIPE SIZE, WEIGHT, LOCATION AND PROJECT SPECIFIC SEISMIC AND WIND LOADS.
4. FOR GALVANIZED STANDS, PAINT ALL WELDS WITH GALVANIZING REPAIR PAINT.
5. PIPE STAND SUPPORTS AND CONNECTORS TO BE ALUMINUM, GALVANIZED STEEL OR STAINLESS STEEL CONSTRUCTION PER SPECIFICATIONS.

TYPICAL SUPPORT REQUIREMENTS		
PIPE SIZE	MIN. ANGLE SIZE (NO) (INCH)	UNISTRUT
UP TO 4"	2 x 2 x 3/16	P1000
6" TO 8"	3 x 3 x 1/4	NA
10" TO 12"	4 x 4 x 3/8	NA
14" TO 16"	2| 4 x 4 x 3/8	NA

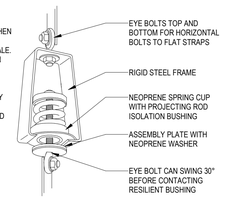
1. TYPICAL SUPPORT BASED UPON 2 PIPES LOCATED AT 1/4 POINTS, MAX. SPAN EQUAL TWO TIMES THE PIPE DIAMETER PLUS 16 INCHES AND WEIGHT OF 12 FEET OF PIPE FILLED WITH WATER AT 130 MPH WIND SPEED.
2. FOR DOUBLE ANGLES, WELD ANGLES AND SUPPORT PLATES TO SECURE PIPE SUPPORTS FASTENERS AND ANGLE SPACING.

3 ROOF PIPE SUPPORT

NTS

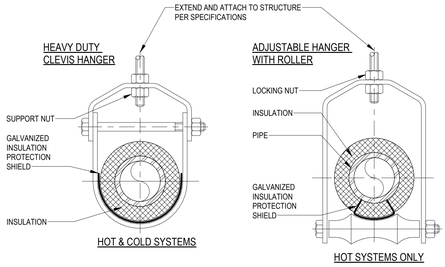


NOTES:
1. THE SPRING SHALL BE PRE-COMPRESSED SO THAT WHEN PROPERLY INSTALLED AND LOADED, THE SPRING IS ADJUSTED TO THE MIDPOINT OF THE DEFLECTION SCALE.
2. REFER TO THE SPECIFICATIONS FOR THE DEFLECTION REQUIREMENTS.
3. SPRING HANGER FRAME - SELECT FOR WEIGHT SEE SPECIFICATIONS.
4. SPRING - SELECT FOR DEFLECTION RECOMMENDED BY MANUFACTURER FOR WEIGHT - SEE SPECIFICATIONS.
5. SEE SPECIFICATIONS FOR MINIMUM SIZE OF THREADED ROD.



2 SPRING ISOLATED HANGERS FOR PIPE OR EQUIPMENT

NTS



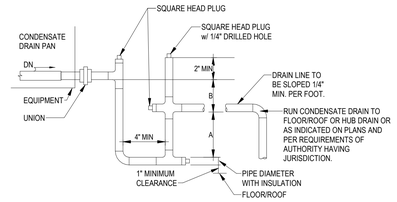
HOT & COLD SYSTEMS

HOT SYSTEMS ONLY

NOTES:
1. SEE SPECIFICATION FOR HANGER SIZES AND INSULATION PROTECTION SHIELDS.
2. REFER TO SPECIFICATION FOR MATERIALS OTHER THAN STEEL PIPE.
3. REFER TO SPECIFICATIONS FOR TYPE OF INSULATION PROTECTION SHIELD, BASED ON PIPE SIZE.

1 PIPE HANGER SUPPORT

NTS



NOTES:
1. FILL TRAP MANUALLY ON INITIAL START-UP.
2. TRAP EACH COMPONENT DRAIN CONNECTION.
3. PIPE SIZE SHALL NOT BE LESS THAN DRAIN PAN CONNECTION SIZE. REFER TO PLANS FOR PIPE SIZES.
4. N.S.P. (NEGATIVE STATIC PRESSURE) EQUALS STATIC PRESSURE AT INLET OF FAN. B = N.S.P. + 1". A = 1/2 x B
5. ADJUST THICKNESS OF HOUSEKEEPING PAD OR UNIT SUPPORTS REQUIRED TO PERMIT TRAP DEPTH.
6. OFFSET TRAP TO ALLOW ACCESS TO DOWNSTREAM CLEANOUT.

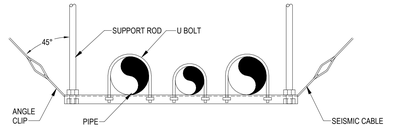
EXAMPLE CALCULATION

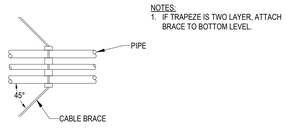
SUPPLY FAN TOTAL SP (IN)	EXTERNAL STATIC PRESSURE (IN)	NEGATIVE STATIC PRESSURE (IN)	B (IN)	A (IN)	COMBINED CURB/PAD/RAILLEG HEIGHT REQUIRED (IN)
6	2	4	5	2.5	11.5
6	3	3	4	2	10
4	2	2	3	1.5	8.5

NOTES:
1. DIMENSIONS MAY BE GREATER THAN MINIMUMS INDICATED DUE TO DIMENSIONS OF FITTINGS, SIZE OF CONDENSATE PIPE, AND INSULATION THICKNESS.
2. CHART USES 2" PIPE OUTSIDE DIAMETER AND 1" INSULATION THICKNESS.
3. CHART INCLUDES 1" CLEARANCE FOR COMBINED HEIGHT REQUIRED COLUMN.

6 CONDENSATE TRAP - DRAW THRU UNIT

NTS





NOTES:
1. IF TRAPEZE IS TWO LAYER, ATTACH BRACE TO BOTTOM LEVEL.

PLAN VIEW OF BRACE

5 SEISMIC TWO CABLE BRACE FOR TRAPEZE PIPING

NTS

REVISION SCHEDULE		
NO	DESCRIPTION	DATE

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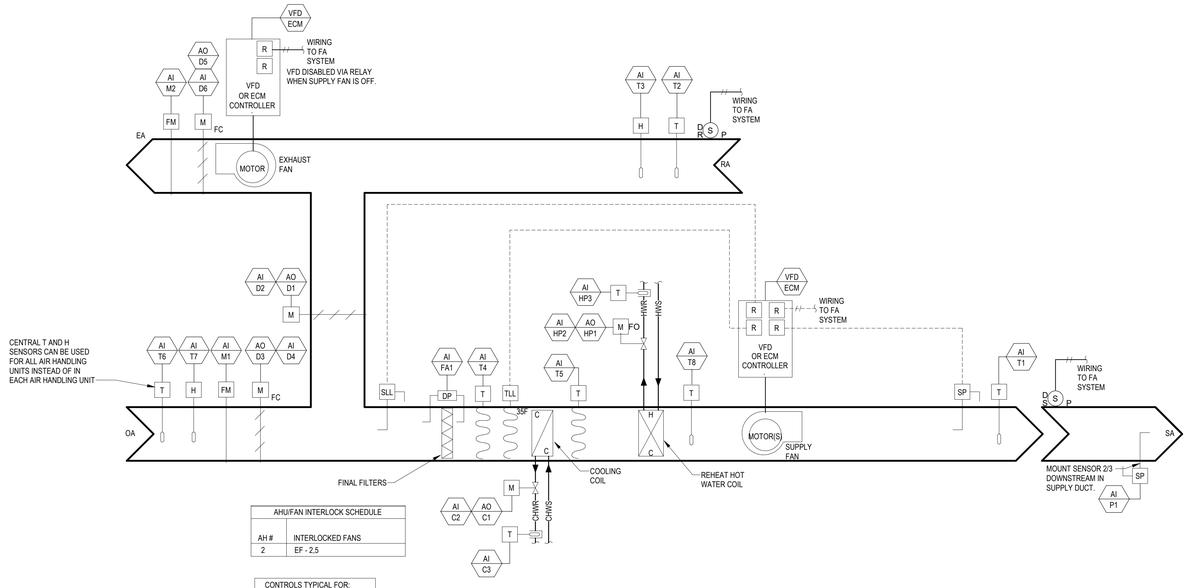


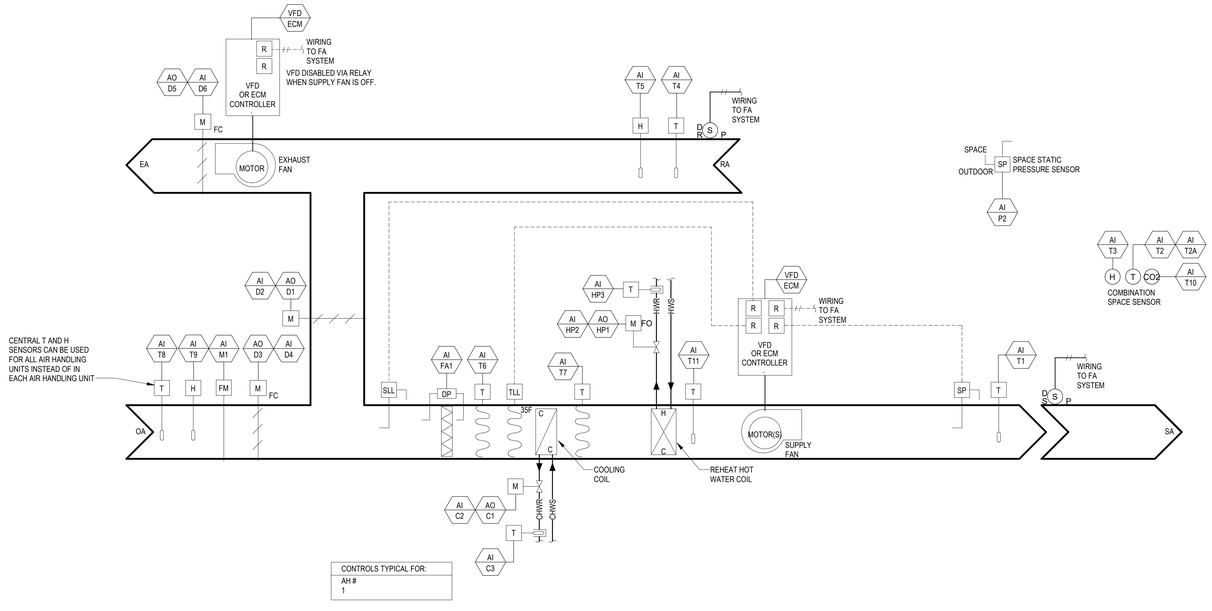
AHU/FAN INTERLOCK SCHEDULE	
AH #	INTERLOCKED FANS
2	EF - 2,5

CONTROLS TYPICAL FOR:
AH #
2

CONTROL POINT LIST	
POINT DESIGNATION	DEVICE OR POINT DESCRIPTION
T1	SUPPLY AIR TEMPERATURE
T2	RETURN DUCT - TEMPERATURE
T3	RETURN DUCT - HUMIDITY
T4	MIXED AIR TEMPERATURE
T5	COOLING COIL LEAVING AIR TEMPERATURE
T6	OUTDOOR AIR TEMPERATURE
T7	OUTDOOR AIR HUMIDITY
T8	RE-HEAT TEMPERATURE
VFD/ECM	SUPPLY FAN VFD OR ECM STARTER. SEE DETAIL FOR POINTS.
P1	SUPPLY DUCT STATIC PRESSURE
VFD/ECM	EXHAUST FAN VFD OR ECM STARTER. SEE DETAIL FOR POINTS.
FA1	FINAL FILTER DIFFERENTIAL PRESSURE
D1	RETURN AIR DAMPER POSITION
D2	RETURN AIR DAMPER POSITION FEEDBACK
D3	OUTSIDE AIR DAMPER POSITION
D4	OUTSIDE AIR DAMPER POSITION FEEDBACK
D5	EXHAUST AIR DAMPER POSITION
D6	EXHAUST AIR DAMPER POSITION FEEDBACK
C1	COOLING COIL CONTROL VALVE POSITION
C2	COOLING COIL CONTROL VALVE POSITION FEEDBACK
C3	COOLING COIL LEAVING WATER TEMPERATURE
M1	IAQ-TEK OR TRANE TRAQ DAMPER AIRFLOW METER
M2	IAQ-TEK OR TRANE TRAQ DAMPER AIRFLOW METER
HP1	HW RE-HEAT COIL CONTROL VALVE POSITION
HP2	HW RE-HEAT COIL CONTROL VALVE POSITION FEEDBACK
HP3	HW RE-HEAT COIL LEAVING WATER TEMPERATURE

2 MULTI-ZONE VAV AIR HANDLING UNIT ECONOMIZER CONTROL SCHEMATIC

NTS



CONTROLS TYPICAL FOR:
AH #
1

CONTROL POINT LIST	
POINT DESIGNATION	DEVICE OR POINT DESCRIPTION
T1	SUPPLY AIR TEMPERATURE
T2	SPACE TEMPERATURE
T2A	SPACE TEMPERATURE - USER INPUT
T3	SPACE HUMIDITY
T4	RETURN DUCT - TEMPERATURE
T5	RETURN DUCT - HUMIDITY
T6	MIXED AIR TEMPERATURE
T7	COOLING COIL LEAVING AIR TEMPERATURE
T8	OUTDOOR AIR TEMPERATURE
T9	OUTDOOR AIR HUMIDITY
T10	CARBON DIOXIDE
T11	PRE-HEAT TEMPERATURE
VFD/ECM	SUPPLY FAN VFD OR ECM STARTER. SEE DETAIL FOR POINTS.
VFD/ECM	EXHAUST FAN VFD OR ECM STARTER. SEE DETAIL FOR POINTS
P2	SPACE STATIC PRESSURE SENSOR
FA1	FINAL FILTER DIFFERENTIAL PRESSURE SENSOR
D1	RETURN AIR DAMPER POSITION
D2	RETURN AIR DAMPER POSITION FEEDBACK
D3	OUTSIDE AIR DAMPER POSITION
D4	OUTSIDE AIR DAMPER POSITION FEEDBACK
D5	EXHAUST AIR DAMPER POSITION
D6	EXHAUST AIR DAMPER POSITION FEEDBACK
C1	COOLING COIL CONTROL VALVE POSITION
C2	COOLING COIL CONTROL VALVE POSITION FEEDBACK
C3	COOLING COIL LEAVING WATER TEMPERATURE
M1	IAQ-TEK OR TRANE TRAQ DAMPER AIRFLOW METER
HP1	HW RE-HEAT COIL CONTROL VALVE POSITION
HP2	HW RE-HEAT COIL CONTROL VALVE POSITION FEEDBACK
HP3	HW RE-HEAT COIL LEAVING WATER TEMPERATURE

1 SINGLE ZONE VAV AIR HANDLING UNIT WITH ECONOMIZER CONTROL SCHEMATIC

NTS

PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
300 North Broadway, Suite 1000, St Louis, MO 63102
(314) 231-7318
WWW.PGAV.COM

REGISTERED PROFESSIONAL ENGINEER
TIMOTHY P. PENNOCK
M36836
MECHANICAL
STATE OF CALIFORNIA

12/09/2022

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exp U.S. Services Inc.
t: +1.407.660.0088
f: +1.407.660.1655
2601 Westhall Lane
Maitland, FL 32751
USA
www.exp.com
Project #: #220181179-00
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REVISION SCHEDULE		
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CONTROL DIAGRAMS - MECHANICAL

DATE	12/09/2022
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PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER

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PECKHAM GUYTON ALBERS & VIETS, INC.
300 North Broadway, Suite 1000, St Louis, MO 63102
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exp U.S. Services Inc.
t: +1.407.660.0088
f: +1.407.660.1655
2601 Westhall Lane
Maitland, FL 32751
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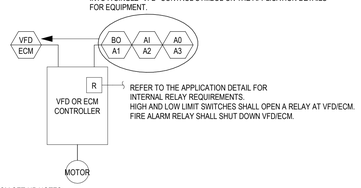
CONTROL POINTS NOTE:
THESE 3 POINTS ARE TYPICAL FOR ALL VFD'S/ECM'S, AND ARE COMBINED INTO A SINGLE "VFD" CONTROL SYMBOL ON THE APPLICATION DETAILS FOR EQUIPMENT.



VARIABLE SPEED MOTOR - CONTROL POINT LIST	
POINT DESIGNATION	DEVICE OR POINT DESCRIPTION
A1	MOTOR - START/STOP TURNS ON MOTOR WHEN IN AUTO MODE
A2	MOTOR/DRIVE - STATUS INPUT TO BAS FOR INTERNAL STATUS AND ALARM
A3	MOTOR - CONTROL SPEED OUTPUT FROM BAS IN 0-10v (0%-100%) SPEED

VFD/ECM SET-UP NOTES:

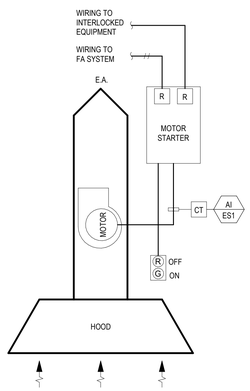
1. CONTROLS CONTRACTOR TO WORK WITH VFD START-UP TECHNICIAN TO PROPERLY SET-UP VFD VARIABLES FOR THE MOTOR APPLICATION - PUMP, FAN, ETC.
2. CONTROL CONTRACTOR TO DOCUMENT THE VFD SET-UP PASSWORD.
3. THE MINIMUM OPERATING SPEED FOR THE VFD/ECM SHALL BE SET TO THE MIN SPEED RATING OF THE MOTOR - NOT SOME ARBITRARY VALUE LIKE 15HZ OR 20HZ MINIMUM SPEED.
4. BAS SHALL SET 0% SPEED EQUAL TO 0 RPM. DO NOT SET 0% TO THE HARD-CODED MINIMUM HZ/RPM.
5. BAS SHALL SET 0% SPEED INPUT AND OPERATING SPEED OUTPUT SHALL BE 0-10V, NOT 4-20mA. THIS ALLOWS THE CONTROL VOLTAGE TO DIRECTLY RELATE TO THE REFERENCE SPEED %.
6. FOR VFD'S, RELEASE THE 60HZ UPPER LIMIT WHERE THE NORMAL OPERATING RANGE (AFTER TAB) IS ABOVE 50HZ.

CONTROLS:

1. VFD/ECM SHALL HAVE MODBUS, BACNET OR EQUIVALENT INTERFACE TO CONNECT TO BAS.
2. CONTROL POINTS A1, A2 AND A3 SHALL BE HARDWIRED.
3. FOR VFD'S, THE FOLLOWING COMMUNICATION POINTS AT A MINIMUM SHALL BE SHOWN IN THE BAS GRAPHICS: SPEED FEEDBACK, VFD LOAD FEEDBACK (KW), DRIVE TEMPERATURE FEEDBACK, MOTOR TEMPERATURE FEEDBACK AND AMPS.
4. FOR ECM, THE FOLLOWING COMMUNICATION POINTS AT A MINIMUM SHALL BE SHOWN IN THE BAS GRAPHICS: SPEED FEEDBACK, LOAD FEEDBACK (KW) AND AMPS

2 VFD/ECM CONTROL SCHEMATIC

NTS



CONTROL POINT LIST		
POINT DESIGNATION	DESCRIPTION	CONTROLLED BY
ES1	EXHAUST FAN CURRENT TRANSDUCER	-

NOTE:

1. CT SHALL BE USED FOR MONITORING OF THE EXHAUST FAN.

ASSOCIATED FAN SCHEDULE	
MUA #	ASSOCIATED FANS
AH-1	EF-2,5

1 KITCHEN HOOD EXHAUST CONTROL SCHEMATIC

NTS

REVISION SCHEDULE		
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AIR HANDLING UNITS

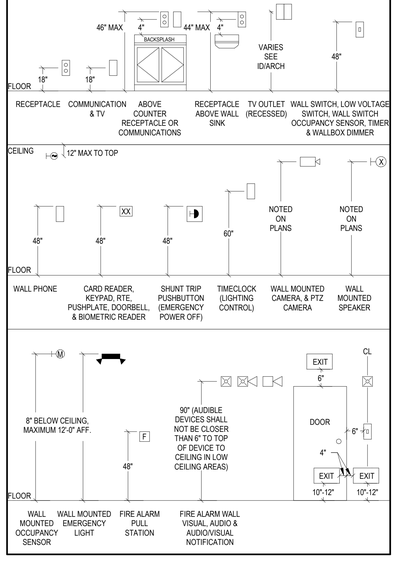
| UNIT NO. | MANUFACTURER & MODEL NUMBER | SYSTEM TYPE | AREA SERVED | ELEVATION (FT) 15 UNIT LOCATION | COOLING AIRFLOW (CFM) | MINIMUM AIRFLOW (CFM) | HEATING AIRFLOW (CFM) | MIN OA (CFM) | DESIGN OA (CFM)① | MAX OA (CFM) | SUPPLY FAN CHARACTERISTICS | | | | | | | EXHAUST FAN CHARACTERISTICS | | | | | | | | | | FILTERS | | | | | | | | HEATING COIL (HOT WATER) | | | | | | | | | | | COOLING COIL (CHILLED WATER) | | | | | | | | | | | | | | ELECTRICAL DATA | | | | | | | | |
|---|---|---

ABBREVIATIONS

A	AMPERES	HPRS	HORSEPOWER RATED SWITCH
AAC	ABOVE ACCESSIBLE CEILING	HOA	HAND OFF AUTOMATIC
AC	ALTERNATING CURRENT	HP	HORSEPOWER
ADA	AMERICANS WITH DISABILITIES ACT	HZ	HERTZ
AF	AMPERE FRAME	IG	ISOLATED GROUND
AFCI	ARC FAULT CIRCUIT INTERRUPTOR	JB	JUNCTION BOX
AFF	ABOVE FINISHED FLOOR	KCMIL	THOUSAND CIRCULAR MILS
AFG	ABOVE FINISHED GRADE	KVA	KILOVOLT-AMPERES
AFU	AMPERE FUSE	KVAR	KILOVOLT-AMPERES, REACTIVE
AIC	AMPERES INTERRUPTING CAPACITY, SYMMETRICAL	KW	KILOWATTS
AL	ALUMINUM	LTG	LIGHTING
ARCH	ARCHITECT	MAX	MAXIMUM
AS	AMP SWITCH	MCB	MAIN CIRCUIT BREAKER
AT	AMP TRIP	MCC	MOTOR CONTROL CENTER
ATS	AUTOMATIC TRANSFER SWITCH	MECH	MECHANICAL
AWG	AMERICAN WIRE GAUGE	MIN	MINIMUM
BFC	BELOW FINISHED CEILING	MLO	MAIN LUGS ONLY
BFG	BELOW FINISHED GRADE	MTS	MANUAL TRANSFER SWITCH
BKBD	BACKBOARD	MVA	MEGAVOLT-AMPERES
BOH	BACK OF HOUSE	N	NEUTRAL
C	CONDUIT	NA	NOT APPLICABLE
CAT	CATALOG	NC	NORMALLY CLOSED
CB	CIRCUIT BREAKER	NEC	NATIONAL ELECTRICAL CODE
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	NF	NON FUSED
CKT	CIRCUIT	NO	NORMALLY OPEN
CLG	CEILING	NTS	NOT TO SCALE
CO	CONDUIT ONLY	OC	ON CENTER
CONT	CONTINUATION	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CU	COPPER	OFOI	OWNER FURNISHED OWNER INSTALLED
CT	CURRENT TRANSFORMER	PH	PHASE
Δ	DELTA	PC	PHOTOCELL
DISC	DISCONNECT SWITCH	PIR	PASSIVE INFRARED
DIV	DIVISION	POC	POINT OF CONNECTION
DWG	DRAWING	POS	POINT OF SALE
EA	EACH	PLBG	PLUMBING
EC	EMPTY CONDUIT	PT	POTENTIAL TRANSFORMER
ECB	ENCLOSED CIRCUIT BREAKER	PVC	POLYVINYL CHLORIDE
ELEC	ELECTRICAL	PWR	POWER
EM	EMERGENCY	QTY	QUANTITY
EMT	ELECTRICAL METALLIC TUBING	REC	RECESSED
EO	ELECTRICALLY OPERATED	RECPT	RECEPTACLE
EP	EXPLOSION PROOF	REF	REFRIGERATOR
EPO	EMERGENCY POWER OFF	RGS	RIGID GALVANIZED STEEL
EQUIP	EQUIPMENT	SPD	SURGE PROTECTIVE DEVICE
ERMS	ENERGY-REDUCING MAINTENANCE SWITCH	ST	SHUNT TRIP
EWC	ELECTRIC WATER COOLER	SURF	SURFACE
EXIST	EXISTING	SWBD	SWITCHBOARD
EXT	EXTERIOR	SWGR	SWITCHGEAR
FA	FIRE ALARM	TBD	TO BE DETERMINED
FACP	FIRE ALARM CONTROL PANEL	TYP	TYPICAL
FAA	FIRE ALARM ANNUNCIATOR	UG	UNDERGROUND
FOH	FRONT OF HOUSE	UNO	UNLESS NOTED OTHERWISE
FT	FEET OR FOOT	V	VOLTS
FU	FUSE	VFD	VARIABLE FREQUENCY DRIVE
G	GROUND	W	WATTS
GEN	GENERATOR	WP	WEATHER PROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	XFMR	TRANSFORMER
GFI	GROUND FAULT INTERRUPTER	Y	WYE
GFP	GROUND FAULT PROTECTION		

DEVICE MOUNTING HEIGHT DIAGRAM

NOTE MOUNTING HEIGHTS FOR DEVICES UNLESS NOTED OTHERWISE



FIRE ALARM SYSTEM

XXcd	FIRE ALARM VISUAL DEVICE, WALL MOUNTED. 'XXcd' INDICATES STROBE CANDELA RATING 75cd UNLESS NOTED OTHERWISE	XXcd	FIRE ALARM VISUAL DEVICE, CEILING MOUNTED. 'XXcd' INDICATES STROBE CANDELA RATING 75cd UNLESS NOTED OTHERWISE
	FIRE ALARM AUDIO DEVICE, WALL MOUNTED		FIRE ALARM AUDIO DEVICE, CEILING MOUNTED
XXcd X	FIRE ALARM AUDIO/VISUAL DEVICE, WALL MOUNTED. 'XXcd' INDICATES STROBE CANDELA RATING 75cd UNLESS NOTED OTHERWISE	XXcd X	FIRE ALARM AUDIO/VISUAL DEVICE, CEILING MOUNTED. 'XXcd' INDICATES STROBE CANDELA RATING. 75cd UNLESS NOTED OTHERWISE

NOTE: FOR ABOVE AUDIO AND AUDIO/VISUAL DEVICES, SUBSCRIPT 'X' INDICATES:

	CARBON MONOXIDE DETECTOR, CEILING MOUNTED	F	FIRE ALARM PULL STATION
	HEAT DETECTOR, CEILING MOUNTED FS - FIRE SERVICE ELEVATOR LOBBY TEMPERATURE MONITORING		SMOKE DETECTOR, WALL MOUNTED CO - WITH CARBON MONOXIDE E - ELEVATOR RECALL SB - INTEGRAL SOUNDER BASE SS - NON SYSTEM SINGLE STATION TYPE
	SMOKE DETECTOR, CEILING MOUNTED CO - WITH CARBON MONOXIDE E - ELEVATOR RECALL SB - INTEGRAL SOUNDER BASE SS - NON SYSTEM SINGLE STATION TYPE	X	BEAM SMOKE DETECTOR, SUBSCRIPT 'X' INDICATES: BT - BEAM TRANSMITTER BR - BEAM RECEIVER
X	SMOKE DETECTOR, DUCT MOUNTED. SUBSCRIPT 'X' INDICATES UNIT SERVED		SMOKE DAMPER
	FIRE/SMOKE DAMPER	FS	FLOW SWITCH
TS	TAMPER SWITCH	P	PRESSURE ALARM
RT	REMOTE TEST STATION	R	CONTROL RELAY
F	FIREFIGHTERS TELEPHONE OUTLET		ELECTRO-MAGNETIC DOOR HOLDER
KB	KNOX BOX	E	ELECTRIC FIRE BELL/GONG
XXXX	FIRE ALARM PANEL XXXX INDICATES TYPE FACP - FIRE ALARM CONTROL PANEL FATC - FIRE ALARM TERMINAL CABINET FAA - FIRE ALARM REMOTE ANNUNCIATOR ASD - ASPIRATING SMOKE DETECTION CONTROL PANEL VEP - VOICE EVACUATION PANEL		

TELECOMMUNICATIONS SYSTEM

XX AA	VOICE OUTLET, WALL-MOUNTED	XX BB	VOICE/DATA OUTLET, WALL-MOUNTED
XX AA	DATA OUTLET, WALL-MOUNTED	XX	OPTICAL FIBER OUTLET, WALL-MOUNTED

DEVICE NOTES:
1. PROVIDE A 4-11/16" SQUARE BY 2-1/8" DEEP BACK BOX WITH A SINGLE GANG REDUCTION RING AT EACH LOCATION, UNO.
2. PROVIDE A 1" CONDUIT ROUTED BETWEEN THE BACK BOX AND THE NEAREST CABLE PATHWAY, UNO.

AA XX	VOICE OUTLET, FLOOR-MOUNTED	BB XX	VOICE/DATA OUTLET, FLOOR-MOUNTED
AA XX	DATA OUTLET, FLOOR-MOUNTED	XX	OPTICAL FIBER OUTLET, FLOOR-MOUNTED

DEVICE NOTES:
1. MOUNT OUTLET IN FLOOR BOX PROVIDED BY THE ELECTRICAL CONTRACTOR. REFER TO THE ELECTRICAL PLANS AND SPECIFICATIONS FOR FLOOR BOX DETAILS, UNO.
2. PROVIDE A 1" CONDUIT ROUTED BETWEEN THE BACK BOX AND THE NEAREST CABLE PATHWAY, UNO.

AA XX	VOICE OUTLET, CEILING-MOUNTED	BB XX	VOICE/DATA OUTLET, CEILING-MOUNTED
AA XX	DATA OUTLET, CEILING-MOUNTED	XX	OPTICAL FIBER OUTLET, CEILING-MOUNTED

DEVICE NOTES:
1. PROVIDE A 4-11/16" SQUARE BY 2-1/8" DEEP BACK BOX WITH A SINGLE GANG REDUCTION RING AT EACH LOCATION, UNO.
2. PROVIDE A 1" CONDUIT ROUTED BETWEEN THE BACK BOX AND THE NEAREST CABLE PATHWAY, UNO.
3. FLUSH MOUNT OUTLET FACEPLATE TO CEILING, UNO.

XX = DEVICE TYPE
- C = COUNTER-MOUNTED OUTLET
- F = MODULAR FURNITURE OUTLET
- H = HOUSE PHONE
- P = PAY PHONE
- W = WALL PHONE
- WAP = WIRELESS ACCESS POINT
- ATM = DEDICATED TO AUTOMATIC TELLER MACHINE
- TC = DEDICATED TO TIME CLOCK
- POS = DEDICATED TO POINT OF SALE LOCATION
- DS = DIGITAL SIGNAGE
- TV= IP TELEVISION
- AL = ANALOG VOICE LINE
- EPL = EMERGENCY PHONE LINE
- A = PROVIDE AN ANALOG TELEPHONE HANDSET
- D = PROVIDE A DIGITAL TELEPHONE HANDSET
- IP = PROVIDE AN IP TELEPHONE HANDSET

AA = NUMBER OF JACKS PER OUTLET / FACEPLATE IF > 1
BB = NUMBER OF VOICE-DEDICATED AND DATA-DEDICATED JACKS PER OUTLET
- (NO SUBSCRIPT) = (1) DIGITAL VOICE / (1) DATA
- 3 = (1) DIGITAL VOICE / (2) DATA
- 4A = (1) DIGITAL VOICE / (1) ANALOG VOICE / (2) DATA
- 4B = (1) DIGITAL VOICE / (3) DATA

110 AA	PUNCH BLOCK - 110 STYLE	BET AA	BUILDING ENTRANCE TERMINAL
66 AA	PUNCH BLOCK - 66 STYLE		

DEVICE NOTES:
1. REFER TO ONE-LINE DIAGRAMS FOR PAIR QUANTITY, SIZE, AND SPECIFICATION.
2. REFER TO DETAIL FOR MOUNTING HEIGHT INFORMATION.

AA = DEVICE DESIGNATION

LIGHTING

R10 7a — UPPER CASE LETTERS INDICATES THE LUMINAIRE SERIES TYPE, NUMBER INDICATES A DIFFERENT LUMINAIRE TYPE WITHIN THE SERIES
NL — NUMBER INDICATES CIRCUIT NUMBER, LOWER CASE LETTER INDICATES SWITCH LEG
NIGHT LIGHT DESIGNATION INDICATES UNSWITCHED AND CONTINUOUSLY "ON"

LUMINAIRE SHADING LEGEND - TYPICAL FOR EACH LUMINAIRE TYPE

NORMAL BRANCH — NEC 700 LIFE SAFETY BRANCH AND/OR BATTERY PACK

	TROFFER		ADJUSTABLE DOWNLIGHT
	STRIP LIGHT		SCONCE
	RECESSED STRIP LIGHT		PENDANT
	WALL MOUNTED STRIP LIGHT		BOLLARD
	CIRCULAR APERTURE DOWNLIGHT		POLE MOUNTED LIGHT
	SQUARE APERTURE DOWNLIGHT		
	SURFACE MOUNTED SPECIALTY LIGHT		WALL MOUNTED CHARACTER
	WALL MOUNTED SPECIALTY LIGHT		BASE MOUNTED CHARACTER
	TRACK MOUNTED SPECIALTY LIGHT		RECESSED PATH LIGHT
	SURFACE MOUNTED ACCENT LIGHT		SURFACE PATH LIGHT
	WALL MOUNTED ACCENT LIGHT		INGRADE UPLIGHT
	TRACK MOUNTED ACCENT LIGHT		INGRADE DIRECTIONAL UPLIGHT
	SURFACE MOUNTED CHARACTER		UNDERWATER LIGHT
	PENDANT MOUNTED CHARACTER		SURFACE UNDERWATER LIGHT
	FAN		THEATRICAL LEKO
	TRACK		THEATRICAL FOLLOW SPOT
	LINEAR LIGHT		THEATRICAL PAR
	LINEAR SLOT LIGHT		THEATRICAL FRESNEL
	MULTILAMP STRING LIGHT		EMERGENCY LIGHT

EXIT SIGNS

	CEILING MOUNTED SINGLE FACE EXIT SIGN - ARROWS INDICATE DIRECTION		CEILING MOUNTED DOUBLE FACE EXIT SIGN - ARROWS INDICATE DIRECTION
X	WALL MOUNTED SINGLE FACE EXIT SIGN ARROWS INDICATE DIRECTION SUBSCRIPT 'L' INDICATES LOW LEVEL EXIT SIGN		WALL MOUNTED DOUBLE FACE EXIT SIGN - ARROWS INDICATE DIRECTION
	WALL END-MOUNTED SINGLE FACE EXIT SIGN ARROWS INDICATE DIRECTION		

SWITCHES / CONTROLS

X ab	WALL MOUNTED SWITCH 'ab' INDICATES INDIVIDUAL GANGED SWITCHES AND ASSOCIATED SWITCH LEGS CONTROLLED, SUBSCRIPT 'X' INDICATES: 2 - DOUBLE POLE 3 - THREE WAY 4 - FOUR WAY D - WALL BOX DIMMER EP - EXPLOSION PROOF F - FAN SWITCH H - HORSEPOWER RATED K - KEY OPERATED LV - LOW VOLTAGE TYPE P - PILOT LIGHT T - WALL BOX TIMER W - WIRELESS WP - WEATHER PROOF	OCCUPANCY AND VACANCY SENSORS	
LCP	LIGHTING CONTROL PANEL CONTROL STATION SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER	X ab	OCCUPANCY/VACANCY SENSOR, CEILING MOUNTED
L X	LIGHTING CONTROL WALL STATION, SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER	X ab	OCCUPANCY/VACANCY SENSOR, WALL MOUNTED (REFER TO MOUNTING HEIGHT LEGEND)
TC X	TIME CLOCK, SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER	X ab	OCCUPANCY/VACANCY SENSOR, WALL SWITCH TYPE NOTE: 'ab' INDICATES SWITCH LEGS CONTROLLED, SUBSCRIPT 'X' INDICATES: VS - VACANCY SENSOR TYPE OS - OCCUPANCY SENSOR TYPE LV - LOW VOLTAGE SWITCH W - WIRELESS
DS X	DAYLIGHT SENSOR, CEILING MOUNTED	C X	CONTACTOR, SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER
		PC X	PHOTOCELL
		ALCR	AUTOMATIC LOAD CONTROL RELAY (EMERGENCY LIGHTING)
		BCELTS	BRANCH CIRCUIT EMERGENCY LIGHTING TRANSFER SWITCH (EMERGENCY LIGHTING)

IN-GRADE BOXES

H XX	HANDHOLE
M XX	MANHOLE
P XX	PULLBOX

DEVICE NOTES:
REFER TO DETAILS FOR EXACT BOX TYPE, SIZE AND SPECIFICATIONS.

H XX - - X
- BOX NUMBER
- SIZE DESIGNATION/TYPE
- BOX TYPE
  - HH-HANDHOLE
  - MH-MAHHOLE
  - PB-PULLBOX
- UTILITY TYPE
  - C-COMMUNICATION
  - P-POWER

EXAMPLE: CMH-1-01

POWER CONNECTIONS

J	JUNCTION BOX, WALL MOUNTED	J	JUNCTION BOX, CEILING MOUNTED
E X	SPECIAL EQUIPMENT CONNECTION, WALL MOUNTED. SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER, REFER TO EQUIPMENT CONNECTION SCHEDULE.	E X	SPECIAL EQUIPMENT CONNECTION, CEILING MOUNTED. SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER, REFER TO EQUIPMENT CONNECTION SCHEDULE.
	DISCONNECT SWITCH, REFER TO EQUIPMENT CONNECTION SCHEDULE FOR DISCONNECT TYPE, UNO		COMBINATION MOTOR STARTER DISCONNECT, REFER TO EQUIPMENT CONNECTION SCHEDULE FOR DISCONNECT TYPE, UNO
X	MOTOR, SUBSCRIPT 'X' DENOTES MOTOR DESIGNATION, REFER TO EQUIPMENT CONNECTION SCHEDULE		VARIABLE FREQUENCY DRIVE
	POWER POLE		SHUNT TRIP PUSH BUTTON B - BUILDING SHUNT TRIP OR - LIGHTING OVERRIDE

RECEPTACLES

	DUPLEX RECEPTACLE, WALL MOUNTED		DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED
	DUPLEX RECEPTACLE, ABOVE BACKSPLASH OF CABINET, COUNTERTOP OR SINK		DOUBLE DUPLEX RECEPTACLE, ABOVE BACKSPLASH OF CABINET, COUNTERTOP OR SINK
	DUPLEX RECEPTACLE, FLUSH MTD IN CEILING		DOUBLE DUPLEX RECEPTACLE, FLUSH MOUNTED IN CEILING
	HALF SWITCHED DUPLEX RECEPTACLE, WALL MOUNTED		SIMPLEX RECEPTACLE, WALL MOUNTED
TYPE	SPECIAL PURPOSE RECEPTACLE, WALL MOUNTED. NEMA CONFIGURATION AS NOTED ON PLANS	TYPE	SPECIAL PURPOSE RECEPTACLE, CEILING MOUNTED NEMA CONFIGURATION AS NOTED ON PLANS
	OCCUPANCY CONTROLLED/SWITCHED DUPLEX RECEPTACLE, WALL MOUNTED		OCCUPANCY CONTROLLED/SWITCHED DUPLEX RECEPTACLE, ABOVE BACKSPLASH OF CABINET, COUNTERTOP OR SINK
	OCCUPANCY CONTROLLED/ HALF SWITCHED DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED		OCCUPANCY CONTROLLED/ HALF SWITCHED DOUBLE DUPLEX RECEPTACLE, ABOVE BACKSPLASH OF CABINET, COUNTERTOP OR SINK
MA-X	MULTI-OUTLET ASSEMBLY, 'X' INDICATES TYPE		

X — RECEPTACLE TYPE
12 — NUMBER INDICATES BRANCH CIRCUIT NUMBER

NOTE: FOR ABOVE DEVICES, SUBSCRIPT 'X' INDICATES:

CK -	CLOCK HANGER	P -	PEDESTAL TYPE
EP -	EXPLOSION PROOF	R -	RECESSED OUTLET
EQ -	EQUIPMENT MOUNTED	SS -	SURGE SUPPRESSION
EWC -	ELECTRIC WATER COOLER	T -	TAMPER PROOF
F -	FURNITURE OR MILLWORK MOUNTED	TV -	TELEVISION OUTLET
GFI -	GROUND FAULT INTERRUPTER	WP -	WEATHER PROOF
H -	HORIZONTALLY MOUNTED	U -	USB TYPE
IG -	ISOLATED GROUND		

FLOOR OUTLETS

	FLOOR BOX, SINGLE SERVICE TYPE DUPLEX RECEPTACLE		FLOOR BOX, SINGLE SERVICE TYPE DOUBLE DUPLEX RECEPTACLE
	FLOOR BOX, MULTI-SERVICE TYPE DUPLEX/COMMUNICATIONS OUTLET		FLOOR BOX, MULTI-SERVICE TYPE, DOUBLE DUPLEX/COMMUNICATIONS OUTLET
	POKE THRU, SINGLE SERVICE TYPE DUPLEX RECEPTACLE		FLOOR BOX, SINGLE-SERVICE TYPE JBOX (POWER) - UNO
	POKE THRU, MULTI-SERVICE TYPE POWER/COMMUNICATIONS OUTLET		FLOOR BOX, MULTI-SERVICE TYPE JBOX (POWER)/COMMUNICATIONS
	POKE THRU, MULTI-SERVICE TYPE JBOX (POWER)/COMMUNICATIONS		POKE THRU, SINGLE SERVICE TYPE DOUBLE DUPLEX RECEPTACLE
	POKE THRU, SINGLE-SERVICE TYPE JBOX (POWER) - UNO		POKE THRU, MULTI-SERVICE TYPE, DOUBLE DUPLEX/COMMUNICATIONS OUTLET

X — FLOOR BOX TYPE (REFER TO SPECIFICATIONS FOR FLOOR BOX TYPES AND CATALOG NUMBERS AND QUANTITY AND SIZES OF CONDUITS TO EACH BOX,UNO)
12 — NUMBER INDICATES BRANCH CIRCUIT NUMBER
FLOOR BOX, CONFIGURATION AS INDICATED, FLUSH MOUNTED, UNLESS OTHERWISE NOTED.

NOTE: FOR ABOVE DEVICES, SUBSCRIPT 'X' INDICATES:
- AF - MULTI-SERVICE TYPE - ACCESS FLOOR
- BR - MULTI-SERVICE TYPE - BALLROOM TYPE
- CC - MULTI-SERVICE TYPE - CONVENTION CENTER TYPE
- F - FURNITURE FEED
- M - MULTI-SERVICE TYPE
- S# - SINGLE-SERVICE TYPE. # - # OF GANGS
- WP - SINGLE-SERVICE WEATHERPROOF TYPE - (POWER OR DATA ONLY)

* 'C' SUBSCRIPT NEXT TO ANY FLOOR BOX INDICATES HALF OF RECEPTACLES IN BOX TO BE AUTOMATICALLY CONTROLLED

SINGLE LINE SYMBOLS

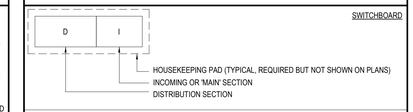
###(#) X	CKT BREAKER, '###' INDICATES TRIP SETTING, '#' INDICATES NUMBER OF POLES SS - SOLID STATE GFP - GROUND FAULT PROTECTION ERMS - ENERGY-REDUCING MAINTENANCE SWITCH EO - ELECTRICALLY OPERATED	M	UTILITY METER
	ENCLOSED NON-FUSED DISCONNECT SWITCH	PANEL NAME	MINI POWER ZONE PANEL
###	ENCLOSED FUSED DISCONNECT SWITCH '###' INDICATES TRIP SETTING, '#' INDICATES NUMBER OF POLES	PANEL NAME	PANELBOARD
###	ENCLOSED CIRCUIT BREAKER '###' INDICATES TRIP SETTING, '#' INDICATES NUMBER OF POLES	S1 L S2	GENERATOR CONNECTION PANEL WITH MANUAL TRANSFER SWITCH
###	FUSED SWITCH, '###' INDICATES TRIP SETTING, '#' INDICATES NUMBER OF POLES	L N E	AUTOMATIC TRANSFER SWITCH
K	KIRK KEY INTERLOCK	BP IS ATS N E	AUTOMATIC TRANSFER SWITCH WITH BYPASS ISOLATION
DMM	DIGITAL MULTI-METER	GF ALARM ONLY	GENERATOR
ST	SHUNT TRIP		
SPD	SURGE SUPPRESSION DEVICE		
	GROUND		
	TRANSFORMER		
	SHIELD/ISOLATION TRANSFORMER		
	PAD MOUNTED TRANSFORMER	BUS DUCT TAP BOX	BUS DUCT
A E1234567	FEEDER REFERENCE		

LINE TYPES

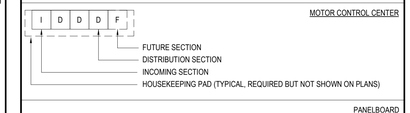
U-OH	UTILITY OVERHEAD ELECTRICAL DISTRIBUTION
U-E	UTILITY UNDERGROUND ELECTRICAL DISTRIBUTION
E	600 VOLT UNDERGROUND ELECTRICAL DISTRIBUTION
XE	EXISTING 600 VOLT UNDERGROUND ELECTRICAL DISTRIBUTION
MV	MEDIUM VOLTAGE UNDERGROUND ELECTRICAL DISTRIBUTION
XMV	EXISTING MEDIUM VOLTAGE UNDERGROUND ELECTRICAL DISTRIBUTION

DISTRIBUTION EQUIPMENT

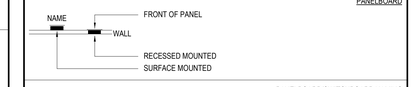
SWITCHBOARD



MOTOR CONTROL CENTER



PANELBOARD



PANELBOARD/SWITCHBOARD NAMING

BLDG-E1MDPHA1
- A,B,C... DESIGNATOR DISTINGUISHES ROOM OR ROOM PANEL SERVED FROM
- 1,2,3... DESIGNATOR DISTINGUISHES INDIVIDUAL PANEL/SWITCHBOARD
- H - 480Y/277V
- L - 208Y/120V

NOTHING INDICATES LIGHTING/RECEPTACLE PANEL BRANCH PANEL
- AV - AUDIO VISUAL PANEL
- DM - DIMMING PANEL
- DP - DISTRIBUTION PANEL
- EV - ELECTRIC VEHICLE CHARGING PANEL
- GDP - GENERATOR DISTRIBUTION PANEL
- GSB - GENERATOR SWITCHBOARD
- K - KITCHEN PANEL
- LC - LOAD CENTER
- LCP - LIGHTING CONTROL PANEL
- MC - METER CENTER
- MCC - MOTOR CONTROL CENTER
- MDP - MAIN DISTRIBUTION PANEL (SERVICE ENTRANCE)
- MSB - MAIN SWITCHBOARD (SERVICE ENTRANCE)
- PDU - POWER DISTRIBUTION UNIT
- SB - SWITCHBOARD
- ST - SHUNT TRIP PANEL
- T - TENANT PANEL
- TC - TELECOMMUNICATIONS PANEL
- SC - SHOW CONTROL PANEL
- R - RIDE POWER PANEL

INDICATES WHICH FLOOR PANEL IS LOCATED ON (IF REQUIRED)

NOTHING INDICATES NORMAL
- E - EMERGENCY (NEC ARTICLE 700)
- L - LEGALLY REQUIRED STANDBY LOADS (NEC ARTICLE 701)
- S - OPTIONAL STANDBY LOADS (NEC ARTICLE 702 LOADS)

INDICATES WHICH BUILDING/AREA PANEL IS LOCATED IN (IF REQUIRED)

TRANSFORMER

TRANSFORMER DESIGNATION

BLDG-T1DPHA1
- INDICATES PANEL SERVED
- INDICATES TRANSFORMER
- INDICATES WHICH BUILDING/AREA TRANSFORMER IS LOCATED IN (IF REQUIRED)

TRANSFER SWITCH

TRANSFER SWITCH DESIGNATION

BLDG-ATSE1HA1
- INDICATES PANEL SERVED
- INDICATES TRANSFER SWITCH
  - ATS - AUTOMATIC TRANSFER SWITCH
  - MTS - MANUAL TRANSFER SWITCH
- INDICATES WHICH BUILDING/AREA AUTOMATIC TRANSFER SWITCH IS LOCATED IN (IF REQUIRED)

TAGS AND CALL OUT SYMBOLS

1 XXXX	SECTION CALLOUT SECTION DESIGNATION SHEET NUMBER		POINT OF CONNECTION
			POINT OF DEMARCATION
		X	REVISION CALLOUT
A XXXX	DETAIL CALLOUT DETAIL DESIGNATION SHEET NUMBER	X	KEYNOTE CALLOUT

DEMOLITION

< R >	EXISTING TO BE REMOVED	< X >	EXISTING TO REMAIN
< RL >	EXISTING TO BE RELOCATED	< NL >	EXISTING - NEW LOCATION
	DEMOLITION CONDUIT		DEMOLITION EQUIPMENT

CIRCUITING

BLDG-E1MDPHA-1
- CIRCUIT NUMBER
- PANEL DESIGNATION

3#12,#12G,3/4"C
- CONDUIT SIZE
- GROUND CONDUCTOR QUANTITY AND SIZE
- CIRCUIT CONDUCTOR QUANTITY AND SIZE

GROUNDING

	GROUND ROD		GROUND BUS BAR

PROJECT GENERAL NOTES:

1. NOT ALL SYMBOLS ON ELECTRICAL SYMBOLS SHEET ARE USED.
2. ALL MOUNTING HEIGHTS ARE TO THE CENTERLINE OF THE DEVICE BACKBOX UNLESS NOTED OTHERWISE.
4. ALL ELECTRICAL SYSTEMS INSTALLATIONS SHALL COMPLY WITH NFPA 70 (NATIONAL ELECTRICAL CODE) AS WELL AS ALL APPLICABLE STATE AND LOCAL CODES. IN ADDITION, FIRE ALARM SYSTEM INSTALLATIONS SHALL COMPLY WITH NFPA 72 (NATIONAL FIRE ALARM CODE).
5. DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR MAKING EVERY ATTEMPT TO CONCEAL RACEWAY SYSTEMS WITHIN WALLS OR ABOVE CEILINGS. WHERE RACEWAY SYSTEMS MUST BE INSTALLED WITHIN FRONT OF HOUSE EXPOSED AREAS, CONTRACTOR SHALL INSTALL SYSTEM COMPONENT PER CODE WITH CAREFUL CONSIDERATION FOR THEMING AND EXTREME SENSITIVITY FOR VISIBILITY OF SYSTEM COMPONENTS. CONDUIT SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO STRUCTURE AS BEST FITS ROUTING REQUIREMENTS AND SHALL BE INSTALLED IN A NEAT AND PROFESSIONAL MANNER. REFER TO ARCHITECTS PAINT SPECIFICATION SECTION AND ARCHITECTURAL FINISH SCHEDULES TO DETERMINE PAINT COLOR OF ALL EXPOSED FRONT OF HOUSE RACEWAY SYSTEMS.
5. DIVISION 26 CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO AND DURING INSTALLATION.
6. DIVISION 26 CONTRACTOR SHALL ENSURE THAT ALL CONDUIT ROUTED THROUGH OR NEAR CASEWORK SHALL NOT INTERFERE IN ANY WAY WITH THE INTENDED USE OF OR SERVICING OF EQUIPMENT OR COUNTERS.
7. DIVISION 26 CONTRACTOR SHALL NOT CUT, DRILL, OR IN ANY OTHER MANNER ALTER ANY STRUCTURAL MEMBER WITHOUT PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
8. DIVISION 26 CONTRACTOR SHALL, AFTER EXAMINATION OF ALL PLANS AND SPECIFICATIONS, INCLUDE ALL COSTS NECESSARY FOR ALTERATION OF, MODIFICATION OF, OR ADDITIONS TO THE ELECTRICAL SYSTEMS NECESSARY FOR A COMPLETE AND APPROVED INSTALLATION IN ALL ASPECTS. IT IS THE INTENT THAT ALL COSTS REQUIRED BE INCLUDED IN THE BID OF THIS TRADE. DIVISION 26 CONTRACTOR SHALL BASE THEIR PROPOSAL AND BID UPON THE EQUIPMENT AS SCHEDULED OR SPECIFIED, USING THE MANUFACTURERS AND MODEL NUMBERS AS CALLED FOR IN THE SPECIFICATIONS AND SCHEDULED ON THE DRAWINGS. IF MORE THAN ONE MANUFACTURER OF EQUIPMENT IS SPECIFIED, ANY ONE OF THE MANUFACTURERS OF EQUIPMENT MAY BE USED IN THIS CONTRACTOR'S PROPOSAL.
9. DIVISION 26 CONTRACTOR TO NOTIFY ELECTRICAL ENGINEER, IN WRITING, OF ANY DISCREPANCIES FOUND BETWEEN THE ELECTRICAL PLANS AND OTHER ENGINEERING PLANS, ARCHITECTURAL PLANS, OR EXISTING FIELD CONDITIONS PRIOR TO FINAL BID PRICE OR PERMITTING.
10. IN CASE OF DISPUTE OR DOUBT AS TO INTENT OF DRAWINGS OR SPECIFICATIONS, DIVISION 26 CONTRACTOR SHALL CONTACT ELECTRICAL ENGINEER AND OBTAI

SCOPE RESPONSIBILITY MATRIX

MATRIX LEGEND

EXP EXP (ENGINEERS)
ARCH ARCHITECT / OTHER DESIGN CONSULTANTS
GC GENERAL CONTRACTOR
EC ELECTRICAL CONTRACTOR
SCS STRUCTURED CABLING CONTRACTOR
AV AUDIO / VISUAL VENDOR / INTEGRATOR
SURV SURVEILLANCE VENDOR / INTEGRATOR
AC ACCESS CONTROL VENDOR / INTEGRATOR
FA FIRE ALARM VENDOR
OPS OWNER / OPERATOR

SCOPE DESCRIPTION (FOR WORK INDICATED IN THE CONTRACT DOCUMENTS)	SPECIFY	LAYOUT / DESIGN	CONTRACTOR FURNISH	CONTRACTOR INSTALL	CONTRACTOR DEMOLISH	OWNER FURNISH	OWNER INSTALL	OWNER DEMOLISH
BOH EQUIPMENT								
LIQUOR EQUIPMENT, CONTROL SYSTEM, AND SUPPLY LINES								
COMPUTER / NETWORK FOR LIQUOR SYSTEM	OPS	EXP	-	-	-	OPS	OPS	OPS
BEER EQUIPMENT, CONTROL SYSTEM, AND SUPPLY LINES								
COMPUTER / NETWORK FOR BEER SYSTEM	OPS	EXP	-	-	-	OPS	OPS	OPS
ATMs / KIOSKS / POS STATIONS								
ATMs / KIOSKS / POINT-OF-SALES SYSTEM EQUIPMENT (INCLUDING PROGRAMMING)	OPS	ARCH	-	-		OPS	OPS	OPS
POWER FEEDS	EXP	EXP	EC	EC	GC	-	-	-
FF&E								
MISCELLANEOUS FF&E - PHONES AND COMPUTERS	OPS	ARCH	-	-	-	OPS	OPS	OPS
GENERAL PURPOSE TELEVISION / MONITOR DISPLAYS	OPS	ARCH	-	-	-	OPS	OPS	OPS
GENERAL PURPOSE TELEVISION / MONITOR POWER AND CABLING	EXP	EXP	EC / SCS	EC / SCS	GC	-	-	-
TECHNOLOGY SYSTEMS								
SUPPORTING SYSTEMS (ROUGH-ins FOR ALL SYSTEMS)								
BACK BOXES / JUNCTION BOXES	EXP	EXP	EC	EC	GC	-	-	-
CONDUIT / SLEEVES	EXP	EXP	EC	EC	GC	-	-	-
POWER CONNECTIONS FOR LOW VOLTAGE SYSTEMS	EXP	EXP	EC	EC	GC	-	-	-
HORIZONTAL AND BACKBONE CABLE PATHWAYS (CABLE BASKET TRAY)	EXP	EXP	EC	EC	GC	-	-	-
HORIZONTAL AND BACKBONE CABLE PATHWAYS (J-HOOKS)	EXP	EXP	SCS	SCS	GC	-	-	-
TRENCHING	EXP	ARCH	GC	GC	-	-	-	-
CONCRETE PATCHING	ARCH	ARCH	GC	GC	-	-	-	-
PAINTING OF ALL EXPOSED CONDUIT, JUNCTION BOXES, ENCLOSURES, HARDWARE AND...	EXP	-	GC	GC	-	-	-	-
TELECOMMUNICATION ROOM BUILD-OUT								
120V POWER AND ASSOCIATED ROUGH-IN	EXP	EXP	EC	EC	GC	-	-	-
EQUIPMENT BACKBOARD	EXP	EXP	EC	EC	GC	-	-	-
EQUIPMENT RACKS, WIRE MANAGEMENT AND ASSOCIATED ACCESSORIES	EXP	EXP	SCS	SCS	EC	-	-	-
CABLE PATHWAYS (LADDER TRAY)	EXP	EXP	SCS	SCS	EC	-	-	-
GROUNDING BUSBAR (TMGB / TGB)	EXP	EXP	EC	EC	EC	-	-	-
EQUIPMENT / RACK GROUNDING CONNECTIONS	EXP	EXP	EC	EC	EC	-	-	-
STRUCTURED CABLING SYSTEMS (VOICE / DATA)								
BACKBONE COMMUNICATIONS CABLING (FIBER OPTIC AND COPPER CABLING)	EXP	EXP	SCS	SCS	EC	-	-	-
HORIZONTAL COMMUNICATIONS CABLING (FIBER OPTIC AND COPPER CABLING)	EXP	EXP	SCS	SCS	EC	-	-	-
CABLE TESTING, CERTIFICATION, AND WARRANTY	EXP	-	SCS	SCS	-	-	-	-
COMMUNICATIONS CABLE LABELING	EXP	-	SCS	SCS	-	-	-	-
PATCH PANELS AND TERMINATIONS	EXP	EXP	SCS	SCS	EC	-	-	-
66 / 110 PUNCH BLOCKS AND TERMINATIONS	EXP	EXP	SCS	SCS	EC	-	-	-
WORKSTATION OUTLETS AND TERMINATIONS	EXP	EXP	SCS	SCS	EC	-	-	-
WIRELESS ACCESS POINTS	OPS	EXP	-	-	-	OPS	OPS	OPS
WIRELESS ACCESS POINT SITE/BUILDING SURVEY	GC	GC	SCS	SCS	-	-	-	-
ACTIVE VOICE / DATA EQUIPMENT (SWITCHES, SERVERS, ETC)	OPS	EXP	-	-	-	OPS	OPS	OPS
TELECOMMUNICATION ROOM PATCH CORDS	OPS	-	SCS	SCS	-	-	-	OPS
STATION CABLES (I.E. WORKSTATION PATCH CORDS)	OPS	-	SCS	SCS	EC	-	-	-
UNINTERRUPTIBLE POWER SUPPLIES (UPSs)	EXP	EXP	EC	EC	-	-	-	OPS
TIME CLOCKS	OPS	EXP	EC	EC		-	-	OPS
GAMING FLOOR HORIZONTAL PATCH CORDS	OPS	-	SCS	SCS	EC	-	-	-
GAMING FLOOR STATION CORDS	OPS	-	SCS	SCS	EC	-	-	-
SURVEILLANCE								
BACKBONE COMMUNICATIONS CABLING (FIBER OPTIC AND COPPER CABLING)	EXP	EXP	SCS	SCS	EC	-	-	-
HORIZONTAL COMMUNICATIONS CABLING (FIBER OPTIC AND COPPER CABLING)	EXP	EXP	SCS	SCS	EC	-	-	-
CABLE TESTING, CERTIFICATION AND WARRANTY	EXP	-	SCS	SCS	-	-	-	-
SECURITY CABLE LABELING	EXP	-	SCS	SCS	-	-	-	-
SURVEILLANCE EQUIPMENT RACKS	EXP	EXP	SURV	SURV	EC	-	-	-
PATCH PANELS AND TERMINATIONS	EXP	EXP	SCS	SCS	EC	-	-	-
CAMERA OUTLETS AND TERMINATIONS	EXP	EXP	SCS	SCS	EC	-	-	-
SURVEILLANCE EQUIPMENT ROOM PATCH CORDS	OPS	-	SCS	SCS	EC	-	-	-
SURVEILLANCE STATION CABLES (I.E. WORKSTATION PATCH CORDS)	OPS	-	SCS	SCS	EC	-	-	-
UNINTERRUPTIBLE POWER SUPPLIES (UPSs)	EXP	EXP	EC	EC	-	-	-	OPS
120V TO 24V CAMERA POWER SUPPLY BOXES	EXP	EXP	EC	EC	EC	-	-	-
12 / 24 VDC CAMERA POWER SUPPLIES	EXP	EXP	SURV	SURV	EC	-	-	-
CAMERA LOW VOLTAGE POWER CABLING AND TERMINATIONS	EXP	EXP	SCS	SCS	EC	-	-	-
CAMERAS AND ASSOCIATED EQUIPMENT	EXP	EXP	SURV	SURV	-	-	-	OPS
CAMERA HOUSINGS, DOMES, ENVIRONMENTAL EQUIPMENT, MOUNTS	EXP	EXP	SURV	SURV	-	-	-	OPS
ACTIVE SWITCHES FOR SURVEILLANCE	OPS	EXP	-	-	-	OPS	OPS	OPS
MEDIA CONVERTERS AND ASSOCIATED POWER SUPPLIES	EXP	EXP	SURV	SURV	-	-	-	OPS
VIDEO MANAGE AND ARCHIVING SYSTEM SERVERS	EXP	EXP	SURV	SURV	-	-	-	OPS
VIDEO MANAGE AND ARCHIVING SYSTEM SOFTWARE, LICENSES, AND PROGRAMMING	EXP	-	SURV	SURV	-	-	-	-
CATV / IP TELEVISION SYSTEMS								
CATV / IP TELEVISION HEADEND	OPS	-	-	-	EC	OPS	OPS	-
BACKBONE COMMUNICATIONS CABLING (COAXIAL, COPPER, FIBER OPTIC CABLING)	EXP	EXP	SCS	SCS	EC	-	-	-
HORIZONTAL COMMUNICATIONS CABLING AND TERMINATIONS (COAXIAL AND COPPER CABLING)	EXP	EXP	SCS	SCS	EC	-	-	-
CABLE TESTING, CERTIFICATION, AND WARRANTY	EXP	-	SCS	SCS	-	-	-	-
CATV CABLE LABELING	EXP	-	SCS	SCS	-	-	-	-
PATCHING AND PATCH CABLES IN EQUIPMENT ROOMS (COAXIAL AND COPPER)	EXP	-	SCS	SCS	EC	-	-	-
STATION CORDS AT TELEVISIONS (COAXIAL AND COPPER)	EXP	-	SCS	SCS	EC	-	-	-
TELEVISIONS	OPS	-	-	-	-	OPS	OPS	OPS
MOUNTING BRACKETS	ARCH	ARCH	-	-	EC	OPS	OPS	-
MOUNTING SUPPORT BACKING	ARCH	ARCH	GC	GC	EC	-	-	-
SATELLITE DISH AND RECEIVERS	OPS	-	-	-	-	OPS	OPS	OPS
GUEST ENTERTAINMENT SYSTEM	OPS	-	-	-	-	OPS	OPS	OPS
DISPLAY SYSTEMS								
VIDEO SIGNAL CABLING AND TERMINATIONS (COAXIAL, COMPOSITE, UTP, FIBER OPTIC CABLE)	EXP	EXP	AV	AV	EC	-	-	-
VIDEO SIGNAL CABLE TESTING, CERTIFICATION, AND WARRANTY	EXP	EXP	AV	AV	-	-	-	-
DISPLAY SYSTEMS CABLE LABELING	EXP	-	AV	AV	-	-	-	-
VIDEO EQUIPMENT ROOM PATCH CORDS	EXP	-	AV	AV	EC	-	-	-
VIDEO DISPLAY PATCH CORDS	EXP	-	AV	AV	EC	-	-	-
PROJECTORS AND PROJECTION SCREENS	EXP	EXP	AV	AV	-	-	-	OPS
VIDEO DISPLAY MONITORS	ARCH	ARCH	-	-	-	OPS	OPS	OPS
DIGITAL SIGNAGE DISPLAY MONITORS	ARCH	ARCH	-	-	-	OPS	OPS	OPS
DIGITAL SIGNAGE MEDIA PLAYERS / CONTENT	OPS	-	-	-	-	OPS	OPS	OPS
VIDEO DIGITAL SIGNAL PROCESSING (SWITCHERS, SCALERS, PROCESSORS, DISTRIBUTION, ETC.)	EXP	EXP	AV	AV	-	-	-	OPS
VIDEO SYSTEM PROGRAMMING	EXP	-	AV	AV	-	-	-	-
VIDEO EQUIPMENT RACKS	EXP	EXP	AV	AV	EC	-	-	-
VIDEO MEDIA PLAYERS (SERVERS, BLU-RAY, DVD)	EXP / OPS	EXP	AV	AV	-	-	-	OPS
VIDEO MEDIA CONTENT	OPS	-	-	-	-	OPS	OPS	OPS
VIDEO INPUT WALL PLATES	EXP	EXP	AV	AV	EC	-	-	-
AUDIO SYSTEMS								
AUDIO SIGNAL CABLING AND TERMINATIONS	EXP	EXP	AV	AV	EC	-	-	-
AUDIO SIGNAL CABLE TESTING, CERTIFICATION, AND WARRANTY	EXP	EXP	AV	AV	-	-	-	-
AUDIO SYSTEM CABLE LABELING	EXP	-	AV	AV	-	-	-	-
AUDIO EQUIPMENT ROOM PATCH CORDS	EXP	-	AV	AV	EC	-	-	-
AUDIO SPEAKERS	EXP	EXP	AV	AV	EC	-	-	-
AUDIO SPEAKERS MOUNTING EQUIPMENT (TILE BRIDGES, MOUNTING BRACKETS, ETC.)	EXP	EXP	AV	AV	EC	-	-	-
AUDIO SYSTEM EQUIPMENT RACKS	EXP	EXP	AV	AV	EC	-	-	-
AUDIO DIGITAL SIGNAL PROCESSORS (SWITCHERS, PROCESSORS, DISTRIBUTION, ETC.)	EXP	EXP	AV	AV	-	-	-	OPS
AUDIO MEDIA PLAYERS (SERVERS, RECEIVERS, MP3 PLAYERS, CD PLAYERS)	EXP / OPS	EXP	AV	AV	-	-	-	OPS
PAGING STATIONS (MICROPHONES, PHONE SYSTEM MODULE, ETC.)	EXP	EXP	AV	AV	EC	-	-	-
AUDIO INPUT WALLPLATES	EXP	EXP	AV	AV	EC	-	-	-
AUDIO SYSTEM PROGRAMMING	EXP	-	AV	AV	-	-	-	-
AUDIO / VIDEO CONTROL SYSTEMS								
CONTROL SYSTEM PROCESSORS	EXP	EXP	AV	AV	-	-	-	OPS
CONTROL SYSTEM PROGRAMMING	EXP	-	AV	AV	-	-	-	-
CONTROL SYSTEM INPUT DEVICES (TOUCH PANELS, BUTTON WALL PLATES, ETC.)	EXP	EXP	AV	AV	EC	-	-	-
CONTROL SYSTEM CABLING, TERMINATIONS, TESTING, AND LABELING	EXP	EXP	AV	AV	EC	-	-	-
FIRE ALARM SYSTEM INTEGRATION	EXP	EXP	FA	FA	EC	-	-	-

PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
200 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318 WWW.PGAV.COM

REGISTERED PROFESSIONAL ENGINEER
Kevin A. Callahan
20802
ELECTRICAL
STATE OF CALIFORNIA

12/09/2022

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exp U.S. Services Inc.
t: +1.407.660.0088
f: +1.407.660.1655
2601 Westhall Lane
Maitland, FL 32751
USA
www.exp.com
Project #: #22018179-00
Cert of Auth: 29701

REVISION SCHEDULE		
NO	DESCRIPTION	DATE

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

RESPONSIBILITY MATRIX - TECHNOLOGY

DATE 12/09/2022

DR RES/BAL | CK BJL/KAC

PGAV 64115-00 | CLIENT SEA

SHEET NUMBER

E103

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STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	SWSD SHIPWRECK CAFE	Report Page:	(Page 1 of 4)
Project Address:	500 SEA WORLD DR.	Date Prepared:	12/8/2022

This document is used to demonstrate compliance with mandatory requirements in §130.5, for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §141.0(a) or §141.0(b)2F for alterations..

A. GENERAL INFORMATION

01	Project Location (city)	SAN DIEGO
02	Occupancy Types Within Project:	

● : See Table I

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01		02	03	04	05
Electrical Service Designation/Description		Scope of Work[1]	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a) [2]	System subject to CA Elec Code Article 517 Exception to §130.5(a)and (b)
		Add/Alt to feeders and branch circuits only	50	☐	☐
06	Demand Response Controls	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §120.2, §130.1 and §130.3 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will indicate when demand response controls are required.			

[1] *FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are required.*
[2] *Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.*

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01		02		03		04	05
Service Electrical Metering §130.5(a) (See Table F)	AND	Separation for Monitoring §130.5(b) (See Table G)	AND	Voltage Drop §130.5(c) (See Table H)	AND	Controlled Receptacles §130.5(d) (See Table I)	
Yes	AND	Yes	AND	Yes	AND	Yes	COMPLIES

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

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STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	SWSD SHIPWRECK CAFE	Report Page:	(Page 2 of 4)
Project Address:	500 SEA WORLD DR.	Date Prepared:	12/8/2022

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. SERVICE ELECTRICAL METERING

This section does not apply to this project.

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This section does not apply to this project.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)2Piii

01	02			03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method			Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
						Pass	Fail
	☒	Voltage drop less than 5%	☐ Permitted by CA Elec Code (Exception to 130.5(c))*	Attached		☐	☐

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

[1] *FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".*

I.CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This section does not apply to this project.

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STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	SWSD SHIPWRECK CAFE	Report Page:	(Page 3 of 4)
Project Address:	500 SEA WORLD DR.	Date Prepared:	12/8/2022

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-ELC-01-E - Must be submitted for all buildings	☐	☐

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to electrical power distribution requirements.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

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STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	SWSD SHIPWRECK CAFE	Report Page:	(Page 4 of 4)
Project Address:	500 SEA WORLD DR.	Date Prepared:	12/8/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Daniella Z Gutierrez	Documentation Author Signature: Daniella Gutierrez
Company: exp U.S. Services Inc.	Signature Date:
Address: 2601 Westhall Ln	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Maitland FL 32751	Phone: 6892096157

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

Responsible Designer Name: Mike Culver	Responsible Designer Signature:
Company: EXP	Date Signed: 2022-12-08
Address: 330 N Brand Blvd	License: 20802
City/State/Zip: Glendale CA 91203	Phone:

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	SWSD SHIPWRECK CAFE	Report Page:	(Page 1 of 7)
Project Address:	500 SEA WORLD DR.	Date Prepared:	12/8/2022

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

A. GENERAL INFORMATION

01	Project Location (city)	SAN DIEGO	04	Total Conditioned Floor Area (ft²)	6,475
02	Climate Zone	7	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

● : See Table I

B. PROJECT SCOPE

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

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☐ New Lighting System				
☐ New Lighting System - Parking Garage				
☒ Altered Lighting System	Area Category Method	6475	Area Category Method	0
Total Area of Work (ft²)	6475		0	

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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	SWSD SHIPWRECK CAFE	Report Page:	(Page 2 of 7)
Project Address:	500 SEA WORLD DR.	Date Prepared:	12/8/2022

C. COMPLIANCE RESULTS

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

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04	05		06	07	08		09
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2G (+)	Tailored §140.6(c)3 (+)	**Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-)	**Total Adjusted** (Watts) *Includes Adjustments	=	**05 must be >= 08** §140.6
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned		4,663.5	0		4,664	≥	3,188	0	3188	=	COMPLIES
Unconditioned						≥				=	
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3	Design Watts	Field Inspector	
									Pass	Fail
CP1	DECORATIVE PENDANT	No	No	18	Mfr. Spec	11	No	198	☐	☐

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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	SWSD SHIPWRECK CAFE	Report Page:	(Page 3 of 7)
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F. INDOOR LIGHTING FIXTURE SCHEDULE

D1	RECESSED ADJUSTABLE DOWNLIGHT	No	No	15	Mfr. Spec	21	No	315	☐	☐
D2	RECESSED FIXED DOWNLIGHT	No	No	7.5	Mfr. Spec	14	No	105	☐	☐
D3	RECESSED DOWNLIGHT	No	No	20	Mfr. Spec	14	No	280	☐	☐
D4	RECESSED FIXED DOWNLIGHT	No	No	7.5	Mfr. Spec	18	No	135	☐	☐
D5	RECESSED ADJUSTABLE SPOTLIGHT	No	No	10	Mfr. Spec	4	No	40	☐	☐
KK1	KITCHEN 2X2	No	No	39	Mfr. Spec	49	No	1,911	☐	☐
PSU1	POWER SUPPLY	No	No	40	Mfr. Spec	4	No	160	☐	☐
XX1	LED EXIT SIGN	No	No	3.2	Mfr. Spec	6	No	19.2	☐	☐
XX2	LIT EXIT SIGN	No	No	5	Mfr. Spec	5	No	25	☐	☐
					Total Designed Watts: CONDITIONED SPACES			3,188		

[1] *FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)		

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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	SWSD SHIPWRECK CAFE	Report Page:	(Page 4 of 7)
Project Address:	500 SEA WORLD DR.	Date Prepared:	12/8/2022

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Required > 10,000 SF	Whole Building Auto Time Switch	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector	
								Pass	Fail
*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2*					13				
					Plan Sheet Showing Daylit Zones:				

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

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

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
ENTRY	Cafeteria/Fastfood	0.4	666	266.4	No	No
SCRAMBLE	Cafeteria/Fastfood	0.4	2,039	815.6	No	No
KITCHEN/SERVING	Kitchen/ Food Preparation Area	0.95	3,770	3,581.5	No	No
		TOTALS:	6,475	4,663.5	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	SWSD SHIPWRECK CAFE	Report Page:	(Page 5 of 7)
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L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

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

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

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

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

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PECKHAM GUYTON ALBERS & VIETS, INC.
200 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318 WWW.PGAV.COM

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exp U.S. Services Inc.
t: +1.407.660.0088
f: +1.407.660.1655
2601 Westhall Lane
Maitland, FL 32751
USA
www.exp.com
Project #: #22018179-00
Cert of Auth: 29701

REVISION SCHEDULE

NO	DESCRIPTION	DATE

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

TITLE 24

DATE 12/09/2022

DR	RES/BAL	CK	BJL/KAC
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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	SWSD SHIPWRECK CAFE	**Report Page:**	**(Page 6 of 7)**
Project Address:	500 SEA WORLD DR	**Date Prepared:**	12/8/2022

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐	
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐	

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time:

Report Version: 2019.1.003
Schema Version: rev 20200601

Registration Provider: Energysoft

Report Generated: 2022-12-08 09:43:59

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	SWSD SHIPWRECK CAFE	**Report Page:**	**(Page 7 of 7)**
Project Address:	500 SEA WORLD DR	**Date Prepared:**	12/8/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Documentation Author Signature:
Daniella Z Gutierrez	
Company:	Signature Date:
exp U.S. Services Inc.	
Address:	CEA/ HERS Certification Identification (if applicable):
2601 Westhall Ln	
City/State/Zip:	Phone:
Maitland FL 32751	6892096157

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

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

Responsible Designer Name:	Responsible Designer Signature:
Mike Culver	
Company:	Date Signed:
EXP	2022-12-08
Address:	License:
330 N Brand Blvd	20802
City/State/Zip:	Phone:
Glendale CA 91203	

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time:

Report Version: 2019.1.003
Schema Version: rev 20200601

Registration Provider: Energysoft

Report Generated: 2022-12-08 09:43:59

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12/09/2022

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t: +1.407.660.0088
f: +1.407.660.1655
2601 Westhall Lane
Maitland, FL 32751
USA
www.exp.com
Project #: #220181179-00
Cert of Auth: 29701

REVISION SCHEDULE		
NO	DESCRIPTION	DATE

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

TITLE 24

DATE 12/09/2022

DR	RES/BAL	CK	BJL/KAC
PGAV	64115-00	CLIENT	SEA

SHEET NUMBER

E111

1/28/2022 6:27:12 PM
Autodesk Docs://64115-00 SWSD Shipwreck Cafe/220181179_SWSD Shipwreck_E.rvt

KEY NOTES

001 ALL RECEPTACLES, SPECIAL OUTLET CONNECTIONS, DISCONNECTS, ETC, LOCATED WITHIN BOUNDARY SHALL BE REMOVED, UNLESS NOTED OTHERWISE. WHEN A COMPLETE POWER CIRCUIT IS REMOVED CONTRACTOR SHALL REMOVE ALL ASSOCIATED CONDUIT AND WIRE BACK TO THE PANEL. TURN OFF CIRCUIT BREAKER, AND MARK AS SPARE. WHEN A PARTIAL POWER CIRCUIT IS REMOVED, THE CONTRACTOR SHALL REMOVE ALL ASSOCIATED CONDUIT AND WIRE BACK TO NEAREST JUNCTION BOX, CAP OFF CONDUCTORS AND LABEL WITH CIRCUIT NUMBER.

002 ALL FIRE ALARM DEVICES LOCATED WITHIN BOUNDARY SHALL BE REMOVED, UNLESS NOTED OTHERWISE. EXISTING FIRE ALARM WIRING SHALL BE REMOVED AND NEW FIRE ALARM WIRING INSTALLED. SPLICES ARE NOT PERMITTED FOR THE FIRE ALARM SYSTEM.

004 ALL DATA OUTLETS, VOICE OUTLETS, AND DATA CONNECTIONS LOCATED WITHIN BOUNDARY SHALL BE REMOVED, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL REMOVE ALL ASSOCIATED CONDUIT AND CABLE BACK TO EXISTING IDF ROOM.

005 EXISTING AIR CURTAIN CONNECTION IS EXISTING TO REMAIN.

GENERAL NOTES:

1 PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE DEMOLITION WORK. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY EXPERIENCED OBSERVERS. THIS CONTRACTOR SHALL PARTICIPATE IN THE SURVEY OF EXISTING ELECTRICAL SERVICES.

2 EXISTING FEEDERS AND BRANCH CIRCUIT WIRING THAT ARE TO BE DEMOLISHED SHALL BE REMOVED BACK TO THE PANELBOARD. THE ASSOCIATED CIRCUIT BREAKER SHALL BE TURNED OFF AND MARKED AS SPARE IN THE PANEL DIRECTORY. PROVIDE THE OWNER WITH ONE ADDITIONAL COPY OF EACH PANEL DIRECTORY UPON COMPLETION OF WORK.

3 IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN THE INTEGRITY OF REMAINING DEVICES OR EQUIPMENT, AND ANY SUCH CONNECTIONS SHALL BE CONCEALED UNLESS LOCATED IN UNFINISHED AREAS.

4 THE CONTRACTOR SHALL NOT ABANDON FEEDER OR BRANCH CIRCUIT WIRING IN EXISTING WALLS AND CEILINGS. CONTRACTOR SHALL FIELD VERIFY ALL FEEDERS AND MAINTAIN THE CONTINUITY OF THE FEEDERS AND BRANCH CIRCUIT WIRING TO ALL AREAS WHICH ARE TO REMAIN, BUT THAT AREA AFFECTED BY THE DEMOLITION OR NEW CONSTRUCTION.

5 CONTRACTOR SHALL DISCONNECT AND REMOVE ALL POWER, AUDIO, CONTROL AND COMMUNICATION WIRING MADE OBSOLETE BY DEMOLITION BACK TO THE SOURCE. ANY CONDUITS PASSING THROUGH THE FLOOR AND/OR CEILING TO BE REMOVED SHALL BE REMOVED AND THE HOLE SHALL BE PROPERLY SEALED TO MAINTAIN PROPER FIRE RATING.

6 FOR ADDITIONAL DEMOLITION WORK REFER TO THE ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS. DISCONNECT AND REMOVE ALL EXISTING CONDUIT AND WIRING FOR EQUIPMENT TO BE REMOVED.

7 INVENTORY ALL OTHER ELECTRICAL ITEMS THAT ARE REMOVED AND PROVIDE A LIST TO THE OWNER FOR THEIR SELECTION OF ITEMS TO BE RETAINED. ALL ITEMS REJECTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.

8 DEVICES, LUMINAIRES, AND CONNECTIONS SHOWN ON THE DEMOLITION PLAN ARE INTENDED TO GIVE THE CONTRACTOR A GENERAL IDEA OF COUNT OF WHAT ELECTRICAL ITEMS ARE BEING REMOVED OR RETAINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD INSPECTION OF THE SITE TO DETERMINE THE ACTUAL CONDITIONS OF THE INSTALLATION AND QUANTITIES OF EXISTING EQUIPMENT BEFORE SUBMITTING BID.

9 PORTIONS OF THE EXISTING BUILDING ARE TO REMAIN IN OPERATION DURING CONSTRUCTION. THIS CONTRACTOR SHALL COORDINATE ALL WORK THAT WILL INTERFERE WITH THE OPERATION OF THE FACILITY WITH THE GENERAL CONTRACTOR AND FACILITY ITSELF.

10 ALL EXISTING POWER, FIRE ALARM, AND EQUIPMENT LAYOUTS SHOWN ON THIS PLAN ARE TAKEN FROM AS BUILT DRAWINGS PROVIDED BY THE OWNER AND HAVE GENERALLY BEEN VERIFIED. CONTRACTOR TO VERIFY ALL AREAS OF DEMOLITION PRIOR TO BID.

1 CAFÉ - DEMO FLOOR PLAN - POWER AND TECHNOLOGY
E201 | SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 32'

PLAN NORTH

PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
2001 Park Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-2318 WWW.PGAV.COM

REGISTERED PROFESSIONAL ENGINEER
BRENT K. LITTLE
20802
ELECTRICAL
STATE OF CALIFORNIA

12/09/2022

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f: +1.407.660.1655
2601 Westhall Lane
Maitland, FL 32751
USA
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Project #: #22018179-00
Cert of Auth: 29701

REVISION SCHEDULE		
NO	DESCRIPTION	DATE

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

CAFÉ - DEMO FLOOR PLAN - POWER & TECHNOLOGY

DATE	12/09/2022		
DR	RES/BAL	CK	BJL/KAC
PGAV	64115-00	CLIENT	SEA

SHEET NUMBER

E201

Autodesk Docs://64115-00 SWSD Shipwreck Cafe/22018179_SWSD Shipwreck_E.rvt 12/8/2022 6:27:28 PM

KEY NOTES

101 ALL LIGHTING AND THEIR CONTROLS LOCATED WITHIN BOUNDARY SHALL BE REMOVED, UNLESS NOTED OTHERWISE. WHEN A COMPLETE LIGHTING CIRCUIT IS REMOVED, CONTRACTOR SHALL REMOVE ALL ASSOCIATED CONDUIT AND WIRE BACK TO THE PANEL, TURN OFF CIRCUIT BREAKER, AND MARK AS SPARE. WHEN A PARTIAL LIGHTING CIRCUIT IS REMOVED, THE CONTRACTOR SHALL REMOVE ALL ASSOCIATED CONDUIT AND WIRE BACK TO THE NEAREST JUNCTION BOX, CAP OFF CONDUCTORS, AND LABEL WITH CIRCUIT NUMBER

102 EXISTING LIGHTING CONTROL BUTTON STATIONS TO BE PRESERVED FOR USE IN NEW LOCATIONS.

GENERAL NOTES:

1 PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE DEMOLITION WORK. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY EXPERIENCED OBSERVERS. THIS CONTRACTOR SHALL PARTICIPATE IN THE SURVEY OF EXISTING ELECTRICAL SERVICES.

2 EXISTING FEEDERS AND BRANCH CIRCUIT WIRING THAT ARE TO BE DEMOLISHED SHALL BE REMOVED BACK TO THE PANELBOARD. THE ASSOCIATED CIRCUIT BREAKER SHALL BE TURNED OFF AND MARKED AS SPARE IN THE PANEL DIRECTORY. PROVIDE THE OWNER WITH ONE ADDITIONAL COPY OF EACH PANEL DIRECTORY UPON COMPLETION OF WORK.

3 IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN THE INTEGRITY OF REMAINING DEVICES OR EQUIPMENT, AND ANY SUCH CONNECTIONS SHALL BE CONCEALED UNLESS LOCATED IN UNFINISHED AREAS.

4 THE CONTRACTOR SHALL NOT ABANDON FEEDER OR BRANCH CIRCUIT WIRING IN EXISTING WALLS AND CEILINGS. CONTRACTOR SHALL FIELD VERIFY ALL FEEDERS AND MAINTAIN THE CONTINUITY OF THE FEEDERS AND BRANCH CIRCUIT WIRING TO ALL AREAS WHICH ARE TO REMAIN, BUT THAT AREA AFFECTED BY THE DEMOLITION OR NEW CONSTRUCTION.

5 CONTRACTOR SHALL DISCONNECT AND REMOVE ALL POWER, AUDIO, CONTROL AND COMMUNICATION WIRING MADE OBSOLETE BY DEMOLITION BACK TO THE SOURCE. ANY CONDUITS PASSING THROUGH THE FLOOR AND/OR CEILING TO BE REMOVED SHALL BE REMOVED AND THE HOLE SHALL BE PROPERLY SEALED TO MAINTAIN PROPER FIRE RATING.

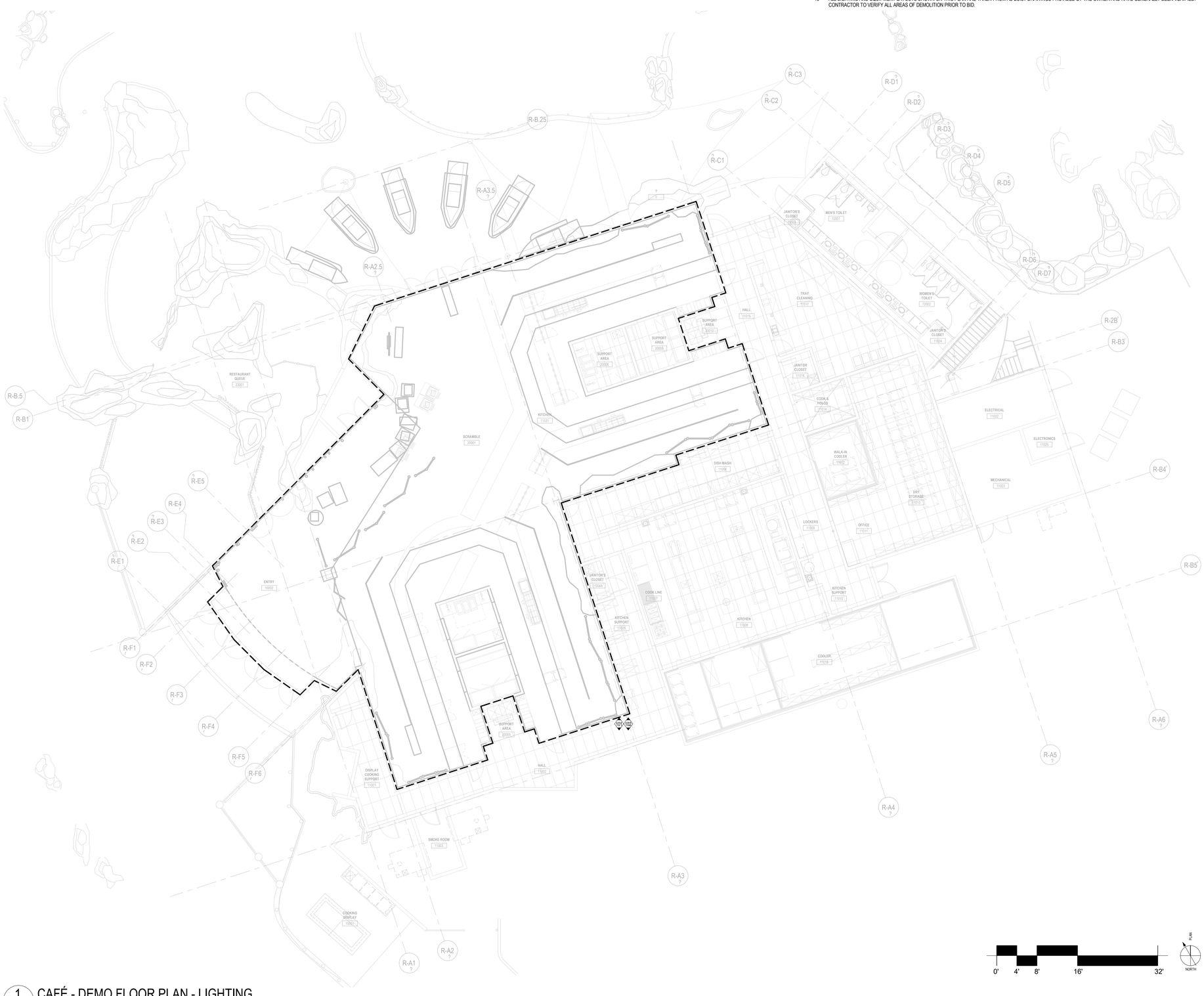
6 FOR ADDITIONAL DEMOLITION WORK REFER TO THE ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS. DISCONNECT AND REMOVE ALL EXISTING CONDUIT AND WIRING FOR EQUIPMENT TO BE REMOVED.

7 INVENTORY ALL OTHER ELECTRICAL ITEMS THAT ARE REMOVED AND PROVIDE A LIST TO THE OWNER FOR THEIR SELECTION OF ITEMS TO BE RETAINED. ALL ITEMS REJECTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.

8 DEVICES, LUMINAIRES, AND CONNECTIONS SHOWN ON THE DEMOLITION PLAN ARE INTENDED TO GIVE THE CONTRACTOR A GENERAL IDEA OF COUNT OF WHAT ELECTRICAL ITEMS ARE BEING REMOVED OR RETAINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD INSPECTION OF THE SITE TO DETERMINE THE ACTUAL CONDITIONS OF THE INSTALLATION AND QUANTITIES OF EXISTING EQUIPMENT BEFORE SUBMITTING BID.

9 PORTIONS OF THE EXISTING BUILDING ARE TO REMAIN IN OPERATION DURING CONSTRUCTION. THIS CONTRACTOR SHALL COORDINATE ALL WORK THAT WILL INTERFERE WITH THE OPERATION OF THE FACILITY WITH THE GENERAL CONTRACTOR AND FACILITY ITSELF.

10 ALL LIGHTING AND EQUIPMENT LAYOUTS SHOWN ON THIS PLAN ARE TAKEN FROM AS BUILT DRAWINGS PROVIDED BY THE OWNER AND HAVE GENERALLY BEEN VERIFIED. CONTRACTOR TO VERIFY ALL AREAS OF DEMOLITION PRIOR TO BID.



1 CAFÉ - DEMO FLOOR PLAN - LIGHTING
E203 | SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 32'

PLAN NORTH

PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
200 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318 WWW.PGAV.COM

REGISTERED PROFESSIONAL ENGINEER
BRENT K. LUTZ
20802
ELECTRICAL
STATE OF CALIFORNIA

12/09/2022

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exp U.S. Services Inc.
t: +1.407.660.0088
f: +1.407.660.1655
2601 Westhall Lane
Maitland, FL 32751
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Cert of Auth: 29701

REVISION SCHEDULE

NO	DESCRIPTION	DATE

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CAFÉ - DEMO FLOOR PLAN - LIGHTING

DATE 12/09/2022

DR RES/BAL | CK BJL/KAC

PGAV 64115-00 | CLIENT SEA

SHEET NUMBER

E203

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GENERAL NOTES:

1. REFER TO THE MECHANICAL DRAWINGS FOR QUANTITY AND LOCATION OF ALL DUCT-MOUNTED SMOKE DETECTORS. CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT, WIRING, AND CONNECTION OF DUCT-MOUNTED SMOKE DETECTORS.
2. ALL RECEPTACLES ON THIS SHEET SHOULD BE CIRCUITED TO PANEL "KP1F" UNLESS NOTED OTHERWISE.
3. ALL TELECOMMUNICATION DEVICES AND CABLES SHALL BE ROUTED BACK TO EXISTING IT RACK 'IT-11025.01' UNLESS NOTED OTHERWISE.
4. PROJECT IS TO BE PROTECTED THROUGHOUT WITH AN APPROVED FIRE ALARM SYSTEM IN ACCORDANCE WITH SECTION 907.2.1 OF THE CA FIRE CODE.
5. ANY FIRE ALARM SYSTEM COMPONENT OR INFORMATION INDICATED WITHIN THIS SET OF DOCUMENTS IS INCLUDED FOR REFERENCE ONLY. THESE COMPONENTS AND INFORMATION ARE NOT REQUIRED TO BE SUBMITTED AS PART OF THE BUILDING PERMIT NOR SHALL APPROVAL OF THESE DOCUMENTS CONSTITUTE APPROVAL OF ANY FIRE ALARM COMPONENT. THE FIRE ALARM SYSTEM WILL BE SUBMITTED AND REVIEWED AS PART OF A SEPERATE FIRE ALARM PERMIT SET.

KEY NOTES

003 REFER TO KITCHEN EQUIPMENT SCHEDULE ON SHEET E901 FOR EQUIPMENT CIRCUITING. REFER TO FOOD SERVICE DRAWINGS FOR ROUGH IN LOCATIONS AND ADDITIONAL EQUIPMENT REQUIREMENTS.

201 CONTRACTOR SHALL FURNISH AND INSTALL (1) RECEPTACLE AT THIS LOCATION FOR KDS. CONTRACTOR SHALL CONFIRM EXACT LOCATION AND MOUNTING WITH KITCHEN VENDOR PRIOR TO INSTALLATION.

202 CONTRACTOR TO PROVIDE TRENCHING FROM NEARBY WALL TO LOCATION FOR ASSEMBLY COUNTER LOAD CENTER FEEDER. CONTRACTOR TO CONFIRM FINAL LOCATION WITH FOOD SERVICE VENDOR PRIOR TO ELECTRICAL ROUGH IN.

203 CONTRACTOR SHALL ROUTE CONDUIT FOR KITCHEN EQUIPMENT AND KDS EQUIPMENT AT THIS COUNTER THROUGH THE CHASE.

408 PROVIDE EMERGENCY LIGHTING INVERTER AS MANUFACTURED BY MYERS EMERGENCY POWER SYSTEM CATALOG #1-EM-3-S-BA2004 AND ALCR ON OUTPUT CIRCUIT FROM INVERTER AHEAD OF ALL LIGHT FIXTURES. INVERTER TO BE CIRCUITED FROM PANEL 'LP2A'-39. INVERTER FEEDER SHALL BE 2#10,#10G,3/4"C. ROUTE INVERTER OUTPUT CIRCUIT AND ZONE Z01E, Z11E, Z14E, Z21E, Z24E CIRCUIT FROM ECHO LIGHTING CONTROL PANEL THROUGH ALCR. REFER TO ALCR DETAIL FOR ADDITIONAL INFORMATION.

701 CONTRACTOR SHALL FURNISH AND INSTALL (1)DATA OUTLET AT THIS LOCATION. DATA OUTLET SHALL BE MOUNTED WITHIN THE CABINET. CONTRACTOR SHALL CONFIRM EXACT LOCATION AND MOUNTING WITH KITCHEN VENDOR PRIOR TO INSTALLATION.

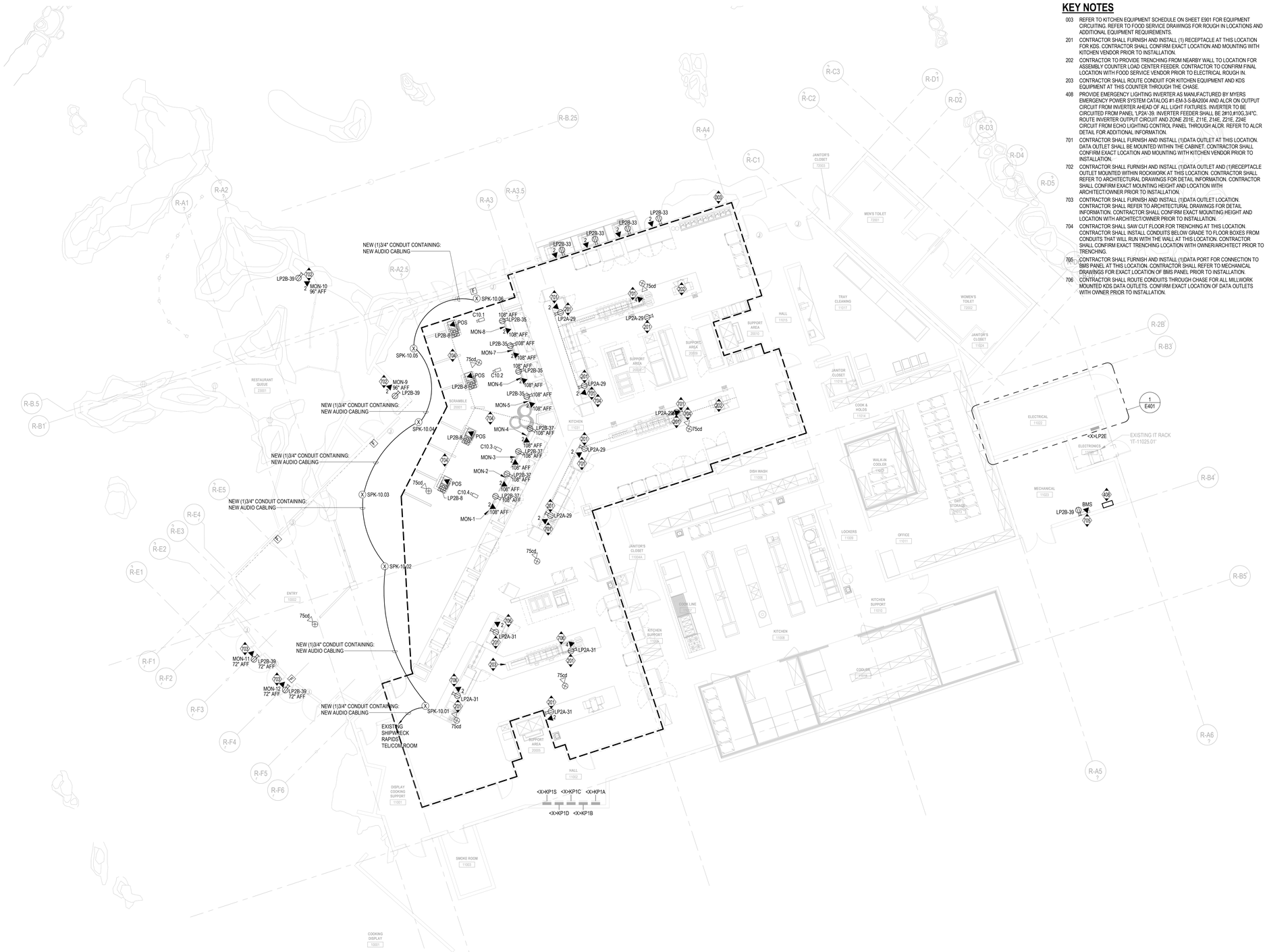
702 CONTRACTOR SHALL FURNISH AND INSTALL (1)DATA OUTLET AND (1)RECEPTACLE OUTLET MOUNTED WITHIN ROCKWORK AT THIS LOCATION. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR DETAIL INFORMATION. CONTRACTOR SHALL CONFIRM EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.

703 CONTRACTOR SHALL FURNISH AND INSTALL (1)DATA OUTLET LOCATION. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR DETAIL INFORMATION. CONTRACTOR SHALL CONFIRM EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.

704 CONTRACTOR SHALL SAW CUT FLOOR FOR TRENCHING AT THIS LOCATION. CONTRACTOR SHALL INSTALL CONDUITS BELOW GRADE TO FLOOR BOXES FROM CONDUITS THAT WILL RUN WITH THE WALL AT THIS LOCATION. CONTRACTOR SHALL CONFIRM EXACT TRENCHING LOCATION WITH OWNER/ARCHITECT PRIOR TO TRENCHING.

705 CONTRACTOR SHALL FURNISH AND INSTALL (1)DATA PORT FOR CONNECTION TO BMS PANEL AT THIS LOCATION. CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF BMS PANEL PRIOR TO INSTALLATION.

706 CONTRACTOR SHALL ROUTE CONDUITS THROUGH CHASE FOR ALL MILLWORK MOUNTED KDS DATA OUTLETS. CONFIRM EXACT LOCATION OF DATA OUTLETS WITH OWNER PRIOR TO INSTALLATION.



1 CAFÉ - FLOOR PLAN - POWER & TECHNOLOGY
E311 | SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 32'

PLAN NORTH

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PECKHAM GUYTON ALBERS & VIETS, INC.
200 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318 WWW.PGAV.COM

REGISTERED PROFESSIONAL ENGINEER
BRENT R. BILLITER
20802
ELECTRICAL
STATE OF CALIFORNIA

12/09/2022

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2601 Westhall Lane
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Cert of Auth: 29701

REVISION SCHEDULE		
NO	DESCRIPTION	DATE
2	Revision 01	05/15/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

CAFÉ - FLOOR PLAN - POWER AND TECHNOLOGY

DATE	12/09/2022
DR RES/BAL	CK BJL/KAC
PGAV 64115-00	CLIENT SEA

SHEET NUMBER

E311

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Autodesk Docs://64115-00 SWSD Shipwreck Cafe/22064178_SWSD Shipwreck_E.rvt

KEY NOTES

401 JBOX AT THIS LOCATION PART OF ALTERNATE SCOPE FOR LIGHTING WITHIN SIGNAGE ELEMENT.

402 TYPE CP1 PENDANTS TO BE MOUNTED WITH BOTTOM OF FIXTURE AT NO LOWER THAN 7'-6" AFF. REFER TO ID ELEVATIONS FOR FINAL MOUNTING HEIGHT INFORMATION.

403 TYPE PSU1 POWER SUPPLY FOR TYPE D2 TO BE LOCATED ABOVE GRID CEILING, IN A DRY, WELL-VENTILATED, ACCESSIBLE LOCATION OUT OF GUEST VIEW.

404 EXISTING LIGHTING TO REMAIN IN THIS LOCATION.

405 TYPE CC1 FLUSH MOUNT LUMINAIRE TO REPLACE EXISTING LUMINAIRE AT THIS LOCATION.

406 TYPE CW2 WALL SCONCE LUMINAIRE TO REPLACE EXISTING LUMINAIRE AT THIS LOCATION.

407 TYPE CP2 PENDANTS TO BE MOUNTED WITH BOTTOM OF FIXTURE AT NO LOWER THAN 7'-6" AFF. REFER TO ID ELEVATIONS FOR FINAL MOUNTING HEIGHT INFORMATION.

409 TYPE D5 DOWNLIGHT LOCATION DEPENDANT UPON FINAL QUEUE SIGNAGE LOCATION. LUMINAIRES TO BE MOUNTED 2'-0" FROM FACE OF SIGN AND SPACED 3'-0" APART.

GENERAL NOTES:

1 CIRCUIT ALL EXIT SIGNS TO CLOSEST UNSWITCHED LIGHTING CIRCUIT SERVING ROOM OR SPACE THAT EXIT SIGN IS IN, UNO.

2 ALL ROOMS AND SPACES WITH NORMAL AND EMERGENCY LIGHTING SHALL BE CONTROLLED VIA AN UL924 AUTOMATIC LOAD CONTROL RELAY (ALCR) WHICH SHALL SHUNT ALL LIGHTING CONTROLS UPON LOSS OF NORMAL POWER. REFER TO TYPICAL ALCR WIRING DETAILS ON DETAIL SHEETS AND SPECIFICATION 'LIGHTING CONTROL DEVICES' FOR ADDITIONAL INFORMATION.

3 ALL NORMAL BRANCH LIGHTING ON THIS SHEET SHOULD BE CIRCUITED TO PANEL 'LCP9' UNLESS NOTED OTHERWISE.REFER TO LIGHTING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.

4 ALL EMERGENCY BRANCH LIGHTING ON THIS SHEET SHOULD BE CIRCUITED THROUGH ACLR WITH EMERGENCY CONNECTION FROM INVERTER 'INVLA1' AND NORMAL FROM PANEL 'LCP9' UNLESS NOTED OTHERWISE. REFER TO LIGHTING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.

1 CAFÉ - REFLECTED CEILING PLAN - LIGHTING
E321 | SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 32'

PLAN NORTH

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PECKHAM GUYTON ALBERS & VIETS, INC.
2651 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318 WWW.PGAV.COM

REGISTERED PROFESSIONAL ENGINEER
Brett J. Lilly
20802
ELECTRICAL
STATE OF CALIFORNIA
12/09/2022

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t: +1.407.660.0088
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2601 Westhall Lane
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REVISION SCHEDULE		
NO	DESCRIPTION	DATE
2	Revision 01	03/15/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

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CAFÉ - REFLECTED CEILING PLAN - LIGHTING

DATE	12/09/2022
DR RES/BAL	CK BJL/KAC
PGAV 64115-00	CLIENT SEA

SHEET NUMBER

E321

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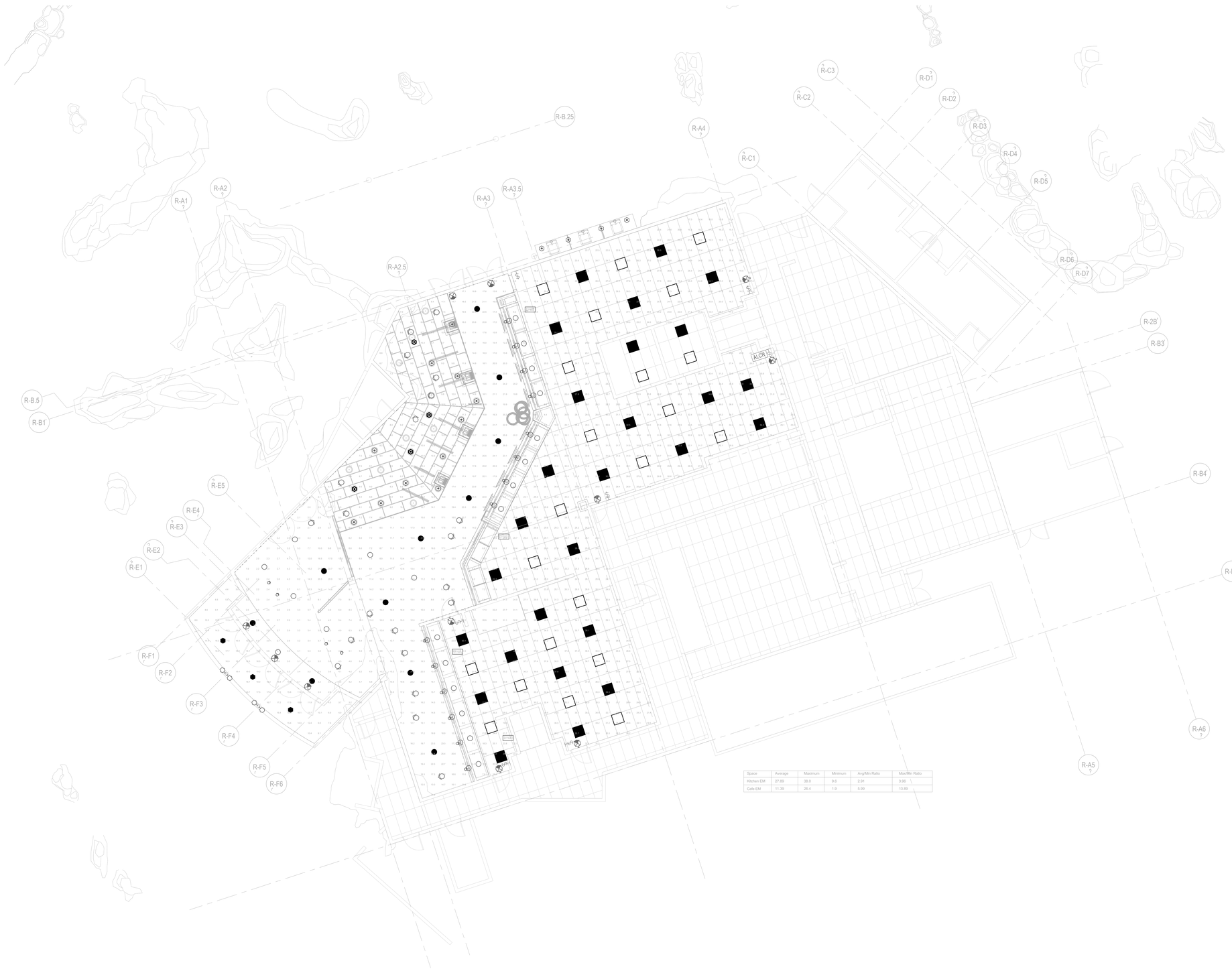

Space	Average	Maximum	Minimum	Avg/Min Ratio	Max/Min Ratio
Kitchen EM	27.89	38.0	9.6	2.91	3.96
Cafe EM	11.39	26.4	1.9	5.99	13.89

1 CAFÉ - REFLECTED CEILING PLAN - LIGHTING EGRESS PHOTOMETRICS
E322 | SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 32'

PLAN NORTH

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200 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318
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REGISTERED PROFESSIONAL ENGINEER
Kevin C. Hall
20802
ELECTRICAL
STATE OF CALIFORNIA

12/09/22

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exp U.S. Services Inc.
t: +1.407.660.0088
f: +1.407.660.1655
2601 Westhall Lane
Maitland, FL 32751
USA
www.exp.com
Project #: #22018179-00
Cert of Auth: 29701

REVISION SCHEDULE		
NO	DESCRIPTION	DATE

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

CAFÉ - REFLECTED CEILING PLAN - LIGHTING PHOTOMETRICS

DATE	12/09/22
DR: RES	CK: BJL
PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER

E322

12/8/2022 5:28:33 PM

Autodesk Docs://64115-00 SWSD Shipwreck Cafe/22018179_SWSD Shipwreck_E.rvt

1 CAFÉ - ROOF PLAN - ELECTRICAL

E331 | SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 32'

NORTH

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PECKHAM GUYTON ALBERS & VIETS, INC.
200 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318 WWW.PGAV.COM

REGISTERED PROFESSIONAL ENGINEER
BRIAN J. LEE
20802
ELECTRICAL
STATE OF CALIFORNIA

12/09/2022

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ISSUE FOR BID / ISSUE FOR PERMIT

CAFÉ - ROOF PLAN - ELECTRICAL

DATE	12/09/2022
DR: RES	CK: BJL
PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER

E331

Autodesk Docs://64115-00 SWSD Shipwreck Cafe/22018179_SWSD Shipwreck_E.rvt 12/8/2022 5:28:41 PM

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PECKHAM GUYTON ALBERS & VIETS, INC.
200 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318
WWW.PGAV.COM

REGISTERED PROFESSIONAL ENGINEER
20802
ELECTRICAL
STATE OF CALIFORNIA

12/09/2022

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1 CAFÉ - FLOOR PLAN - POWER & SYSTEMS

1/2" = 1'-0"

REVISION SCHEDULE		
NO	DESCRIPTION	DATE

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ISSUE FOR BID / ISSUE FOR PERMIT

ENLARGED PLAN - POWER AND TECHNOLOGY

DATE	12/09/2022
DR: RES/BAL	CK: BJL/KAC
PGAV: 64115-00	CLIENT: SEA

SHEET NUMBER

E401

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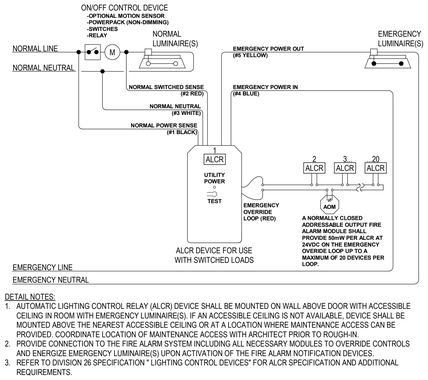
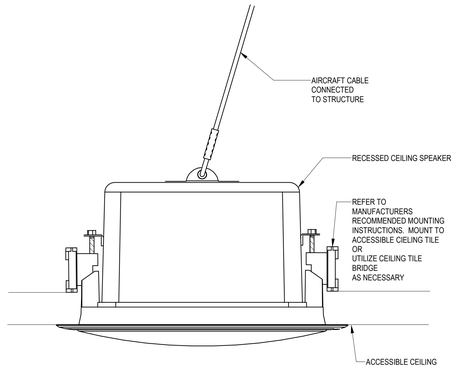
Autodesk Docs://64115-00.SWSD Shipwreck Cafe/22018179_SWSD Shipwreck_E.rvt

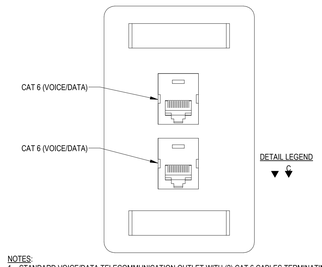


DETAIL NOTES:
1. AUTOMATIC LIGHTING CONTROL RELAY (ALCR) DEVICE SHALL BE MOUNTED ON WALL ABOVE DOOR WITH ACCESSIBLE CEILING IN ROOM WITH EMERGENCY LUMINAIRE(S). IF AN ACCESSIBLE CEILING IS NOT AVAILABLE, DEVICE SHALL BE MOUNTED ABOVE THE NEAREST ACCESSIBLE CEILING OR AT A LOCATION WHERE MAINTENANCE ACCESS CAN BE PROVIDED. COORDINATE LOCATION OF MAINTENANCE ACCESS WITH ARCHITECT PRIOR TO ROUGH-IN.
2. PROVIDE CONNECTION TO THE FIRE ALARM SYSTEM INCLUDING ALL NECESSARY MODULES TO OVERRIDE CONTROLS AND ENERGIZE EMERGENCY LUMINAIRE(S) UPON ACTIVATION OF THE FIRE ALARM NOTIFICATION DEVICES.
3. REFER TO DIVISION 26 SPECIFICATION " LIGHTING CONTROL DEVICES" FOR ALCR SPECIFICATION AND ADDITIONAL REQUIREMENTS.

9 TYPICAL ALCR WIRING DIAGRAM - SWITCHED
NTS



6 HARD CEILING MOUNTED SPEAKER
NTS

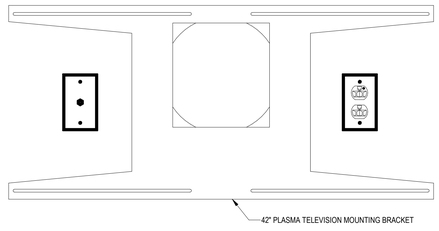


NOTES:
1. STANDARD VOICE/DATA TELECOMMUNICATION OUTLET WITH (2) CAT 6 CABLES TERMINATING AT DESIGNATED PATCH PANEL IN TELECOMMUNICATION RACK.
2. OUTLET FACEPLATE COLOR SHALL MATCH ELECTRICAL OUTLET FACEPLATE COLOR IN EACH AREA AS COORDINATED BY ARCHITECT.
3. VOICE/DATA JACK COLOR SHALL MATCH FACEPLATE COVER.

3 STANDARD SINGLE VOICE/DATA OUTLET
NTS

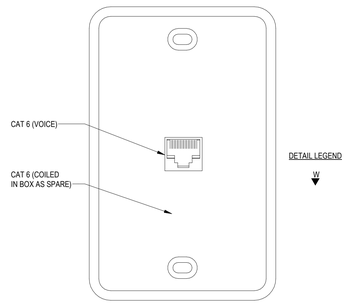
CABINET ELEVATIONS	
RACK UNITS	EXISTING IT RACK "IT - 11025.01"
1	FIBER ENCLOSURE
2	
3	48-PORT PATCH PANEL
4	
5	48-PORT POE SWITCH
6	WIRE MANAGEMENT
7	
8	48-PORT PATCH PANEL
9	
10	48-PORT POE SWITCH
11	WIRE MANAGEMENT
12	
13	SPACE FOR FUTURE EXPANSION
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	UPS OWNER PROVIDED
26	

11 EXISTING RACK
NTS



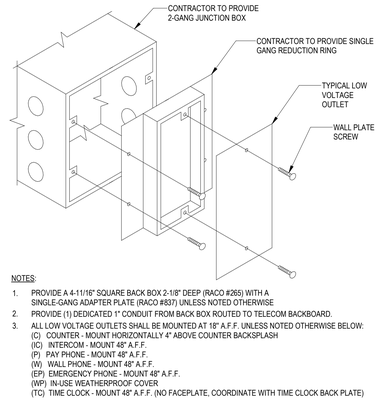
NOTES:
1. PROVIDE (1) CURBELL F-CONNECTOR P/N WPA-0002.
2. BRACKET OUTLINE IS SHOWN FOR DIAGRAMATIC PURPOSES ONLY. REFER TO EQUIPMENT BOOKS FOR EXACT ROUGH-IN INFORMATION FOR PLASMA SPECIFIC MONITOR BRACKET.

8 TELEVISION BACKBOX ROUGH-IN DETAIL
NTS



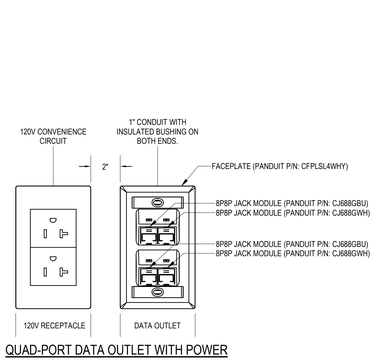
NOTES:
1. STANDARD WALL PHONE VOICE TELECOMMUNICATION OUTLET WITH (2) CAT 6 CABLES TERMINATING AT DESIGNATED PATCH PANEL IN TELECOMMUNICATION RACK.
2. PROVIDE STAINLESS STEEL WALL MOUNT PHONE FACEPLATE.

5 STANDARD WALL PHONE OUTLET
NTS

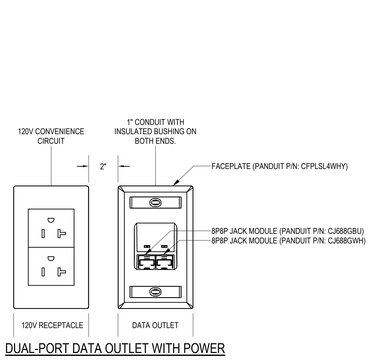


NOTES:
1. PROVIDE A 4-11/16" SQUARE BACK BOX 2-1/8" DEEP (RACO #265) WITH A SINGLE-GANG ADAPTER PLATE (RACO #837) UNLESS NOTED OTHERWISE
2. PROVIDE (1) DEDICATED 1" CONDUIT FROM BACK BOX ROUTED TO TELECOM BACKBOARD.
3. ALL LOW VOLTAGE OUTLETS SHALL BE MOUNTED AT 18" A.F.F. UNLESS NOTED OTHERWISE BELOW:
(C) COUNTER - MOUNT HORIZONTALLY 4" ABOVE COUNTER BACKSPLASH
(IC) INTERCOM - MOUNT 48" A.F.F.
(P) PAY PHONE - MOUNT 48" A.F.F.
(W) WALL PHONE - MOUNT 48" A.F.F.
(EP) EMERGENCY PHONE - MOUNT 48" A.F.F.
(WP) IN-USE WEATHERPROOF COVER
(TC) TIME CLOCK - MOUNT 48" A.F.F. (NO FACEPLATE, COORDINATE WITH TIME CLOCK BACK PLATE)

2 TYPICAL LOW VOLTAGE OUTLET BACK BOX DETAIL
NTS

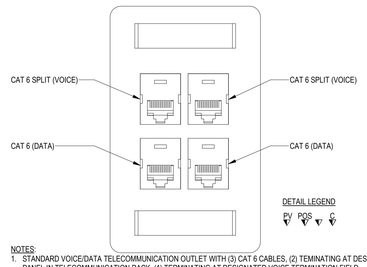


QUAD-PORT DATA OUTLET WITH POWER



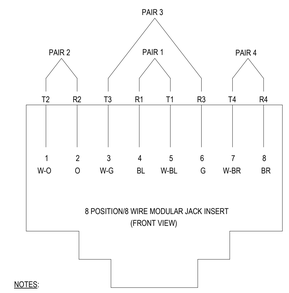
DUAL-PORT DATA OUTLET WITH POWER

10 DATA OUTLET AND POWER RECEPTACLE DETAIL
NTS



NOTES:
1. STANDARD VOICE/DATA TELECOMMUNICATION OUTLET WITH (3) CAT 6 CABLES, (2) TEMINATING AT DESIGNATED PATCH PANEL IN TELECOMMUNICATION RACK, (1) TERMINATING AT DESIGNATED VOICE TERMINATION FIELD. TERMINATING AT DESIGNED PATCH PANEL IN TELECOMMUNICATION RACK.
2. OUTLET FACEPLATE COLOR SHALL MATCH ELECTRICAL OUTLET FACEPLATE COLOR IN EACH AREA AS COORDINATED BY ARCHITECT.
3. DATA JACK COLOR SHALL MATCH FACEPLATE COVER, VOICE JACK COLOR SHALL BE BLACK.

4 STANDARD VOICE/DATA OUTLET
NTS



NOTES:

PAIR 1: WHITE-BLUE/BLUE-WHITE
T1 R1

PAIR 2: WHITE-ORANGE/ORANGE-WHITE
T2 R2

PAIR 3: WHITE-GREEN/GREEN-WHITE
T3 R3

PAIR 4: WHITE-BROWN/BROWN-WHITE
T4 R4

1 EIA/TIA T568B WIRING SCHEME DETAIL
NTS

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220 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318
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REGISTERED PROFESSIONAL ENGINEER
Matthew Allen Miller
20802
ELECTRICAL
STATE OF CALIFORNIA
12/09/2022

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SAN DIEGO, CA

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DETAILS - ELECTRICAL AND TECHNOLOGY

DATE 12/09/2022

DR	CK
RES/BAL	BJL/KAC
PGAV	CLIENT
64115-00	SEA

SHEET NUMBER

E511

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Autodesk Docs://64115-00 SWSD Shipwreck Cafe/22018178_SWSD Shipwreck_E.rvt

FIRE ALARM MATRIX

#	SYSTEM INPUTS	SYSTEM OUTPUTS: CONTROL UNIT ANNUNCIATION: FACP / FAA	BYPASS						NOTIFICATION: DIALER			REQUIRED FIRE SAFETY CONTROL: LIFE SAFETY			HVAC CONTROL						
		AUDIBLE/VISUAL AUDIBLE SIGNAL - GENERAL ALARM	AUDIBLE/VISUAL ALARM SIGNAL - SUPERVISORY ALARM	AUDIBLE/VISUAL ALARM SIGNAL - TROUBLE ALARM	BYPASS AUDIBLE NOTIFICATION (ALL EVACUATION ZONES)	BYPASS VISUAL NOTIFICATION (ALL EVACUATION ZONES)	BYPASS FAA SUPERVISORY & TROUBLE AUDIBLE ALARM SIGNAL	BYPASS HVAC EQUIPMENT SHUTDOWN	BYPASS MUTE BACKGROUND AUDIO (ALL EVACUATION ZONES)	BYPASS EGRESS LIGHTING (ALL EVACUATION ZONES)	TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	RECORD CHANGE OF STATUS - FACP	MUTE ALL BACKGROUND AUDIO	ACTIVATE EGRESS LIGHTING - SEND SIGNAL TO ALL AUTOMATIC LIGHTING CONTROL RELAYS (ALCR)	SHUTDOWN HVAC UNIT IN ALARM	SHUTDOWN ALL 2000+ CFM HVAC EQUIP. AND ASSOCIATED FSD IN ACTIVE EVACUATION ZONE(S) AND FLOOR ABOVE AND BELOW (NOTE 3)	SHUTDOWN ALL 2000+ CFM HVAC EQUIPMENT AND ASSOCIATED FSD (NOTE 7)	SHUTDOWN ALL 2000+ CFM HVAC UNIT(S) AND ASSOCIATED FIRE / SMOKE DAMPERS SERVING ZONE IN ALARM (NOTE 6)	SHUTDOWN ASSOCIATED MAKEUP UNIT AND AIR HANDLING UNITS SERVING RESPECTIVE KITCHEN	SHUTDOWN HIGH VOLUME LOW SPEED (HVLS) FANS	
		AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AO	AP	AQ	AR	AS	AT	AU	AV	AW	
	ALARM INPUTS																						
1	MANUAL FIRE ALARM BOX (PULL STATION)	X									X			X	X	X			X				1
2	WATER FLOW SWITCH	X									X			X	X	X		X		X	X	X	2
3	WATER FLOW SWITCH (ELEVATOR CONTROL / EQUIPMENT ROOM OR SHAFT)	X									X			X	X	X		X		X	X	X	3
4	FIRE SUPPRESSION - KITCHEN HOOD (CHEMICAL SYSTEM ACTIVATION OR WATER FLOW SWITCH)	X									X			X	X	X		X		X	X	X	4
5	FIRE PUMP - RUNNING		X								X			X									5
6	SMOKE DETECTOR - EVACUATION ZONE	X										X		X	X	X		X		X	X	X	6
7	HEAT DETECTOR - EVACUATION ZONE	X									X			X	X	X		X		X	X	X	7
7	SMOKE DETECTOR - ELEVATOR LOBBY	X									X			X				X		X	X	X	7
8	SMOKE DETECTOR - PRIMARY RECALL FLOOR, ELEVATOR LOBBY	X									X			X				X		X	X	X	8
9	SMOKE DETECTOR - ALTERNATE RECALL FLOOR, ELEVATOR LOBBY	X									X			X				X		X	X	X	9
10	SMOKE DETECTOR ELEVATOR CONTROL / EQUIPMENT ROOM / SHAFT	X									X			X				X		X	X	X	10
11	HEAT DETECTOR - ELEVATOR CONTROL / EQUIPMENT ROOM / SHAFT	X									X			X				X		X	X	X	11
	SUPERVISORY INPUTS																						
12	DUCT DETECTOR - EVACUATION ZONE		X									X		X			X						12
13	TAMPER SWITCH - OUTSIDE SCREW & YOKE VALVE (OSY)		X									X		X									13
14	TAMPER SWITCH - BACK FLOW PREVENTER (BFP)		X									X		X									14
15	TAMPER SWITCH - POST INDICATOR VALVE (PIV)		X									X		X									15
16	TAMPER SWITCH - EVACUATION ZONE		X									X		X									16
17	DRY VALVE LOW PRESSURE SWITCH		X									X		X									17
18	BEVERAGE CO2 MONITORING SYSTEM		X									X		X									18
19	KITCHEN HOOD FIRE SUPPRESSION SYSTEM - FAULT		X									X		X									19
20	FP DRY SYSTEM AIR COMPRESSOR - FAULT, LOSS OF POWER (NOTE 2)		X									X		X									20
21	KNOX BOX - TAMPER SWITCH		X									X		X									21
22	AREA OF REFUGE EMERGENCY COMMUNICATION SYSTEM FAULT		X									X		X									22
	TROUBLE INPUTS																						
23	FIRE ALARM SYSTEM - GROUND FAULT			X									X	X									23
24	FIRE ALARM SYSTEM - SHORT CIRCUIT			X									X	X									24
25	FIRE ALARM SYSTEM - OPEN CIRCUIT			X									X	X									25
26	FIRE ALARM SYSTEM - LOW BATTERY			X									X	X									26
27	FIRE ALARM SYSTEM - BATTERY FAIL, CHARGING OR CIRCUITRY			X									X	X									27
28	FIRE ALARM SYSTEM - A/C POWER FAIL (NOTE 1)			X									X	X									28
	SYSTEM CONTROL INPUTS																						
29	NOTIFICATION APPLIANCE - BYPASS SWITCH			X	X	X							X	X									29
30	MUTE BACKGROUND AUDIO - ACTIVATE SWITCH			X									X	X	X								30
31	MUTE BACKGROUND AUDIO - BYPASS SWITCH			X					X				X	X									31
32	EGRESS LIGHTING - ACTIVATE SWITCH			X									X	X		X							32
33	EGRESS LIGHTING - BYPASS SWITCH			X						X			X	X									33
34	SHUTDOWN ALL 2000+ CFM HVAC EQUIPMENT - ACTIVATE SWITCH			X									X	X					X				34
35	SHUTDOWN ALL 2000+ CFM HVAC EQUIPMENT - BYPASS SWITCH			X				X					X	X									35
		AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AO	AP	AQ	AR	AS	AT	AU	AV	AW	

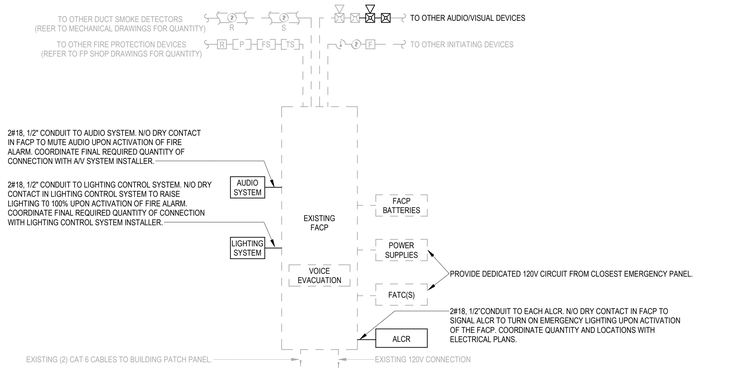
SPECIFIC NOTES	
1	ACTIVATE FAULT ONLY IF POWER LOSS EXCEEDS 10 SECONDS.
2	ACTIVATE FAULT ONLY IF POWER LOSS EXCEEDS 60 SECONDS.
3	FIRE / SMOKE DAMPERS ARE INTERLOCKED VIA CONTROLS RESPECTIVE UNIT, SEPARATE FIRE ALARM CONNECTION TO EACH ASSOCIATED DAMPER IS NOT REQUIRED.
4	ACTIVATE ALTERNATE RECALL FLOOR IF PRIMARY RECALL FLOOR DETECTOR IS IN ALARM.
5	REFER TO ARCHITECTURAL AND/OR LIFE SAFETY PLANS FOR DESIGNATED FIRE SERVICE ACCESS AND OCCUPANT EVACUATION ELEVATORS.
6	FIRE / SMOKE DAMPERS ARE INTERLOCKED VIA CONTROLS TO DOAS UNITS, SEPARATE FIRE ALARM CONNECTION TO EACH ASSOCIATED DAMPER IS NOT REQUIRED.

GENERAL NOTES	
A	REFER TO DIVISION 26 SPECIFICATION SECTION 'DIGITAL ADDRESSABLE FIRE-ALARM SYSTEM' FOR ADDITIONAL REQUIREMENTS.
B	CONTRACTOR TO PROVIDE ALL CONTROL POINTS, WHICH INCLUDES ALL WIRING FOR ALL CONTROL POINTS NOTED UNDER SYSTEM INPUTS.
C	DIVISION 26 CONTRACTOR TO PROVIDE PHASE LOSS MONITOR WITH RESPECTIVE OUTPUTS FOR FIRE ALARM SYSTEM FOR EACH PIECE OF EQUIPMENT THAT REQUIRES POWER MONITORING.
D	HVAC SYSTEMS SHALL AUTOMATICALLY RESTART AFTER FACP RESET.
E	PROJECT IS TO BE PROTECTED THROUGHOUT WITH AN APPROVED FIRE ALARM SYSTEM IN ACCORDANCE WITH SECTION 907.2.1 OF THE CA FIRE CODE.
F	ANY FIRE ALARM SYSTEM COMPONENT OR INFORMATION INDICATED WITHIN THIS SET OF DOCUMENTS IS INCLUDED FOR REFERENCE ONLY. THESE COMPONENTS AND INFORMATION ARE NOT REQUIRED TO BE SUBMITTED AS PART OF THE BUILDING PERMIT NOR SHALL APPROVAL OF THESE DOCUMENTS CONSTITUTE APPROVAL OF ANY FIRE ALARM COMPONENT. THE FIRE ALARM SYSTEM WILL BE SUBMITTED AND REVIEWED AS PART OF A SEPERATE FIRE ALARM PERMIT SET.

LEGEND	
X	SYSTEM INPUT CAUSES SYSTEM OUTPUT
ABBREVIATIONS	
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FCC	FIRE COMMAND CENTER
FSD	FIRE/SMOKE DAMPER, SMOKE DAMPERS

GENERAL NOTES:

1. ALL EQUIPMENT SHOWN AS LIGHT AND DASHED IS EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
2. NOT ALL BREAKERS ARE SHOWN. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
3. ALL TRANSFORMER GROUND WIRE SIZES ARE COPPER CONDUCTORS.
4. ALL CONDUCTORS ARE COPPER UNLESS NOTED OTHERWISE.

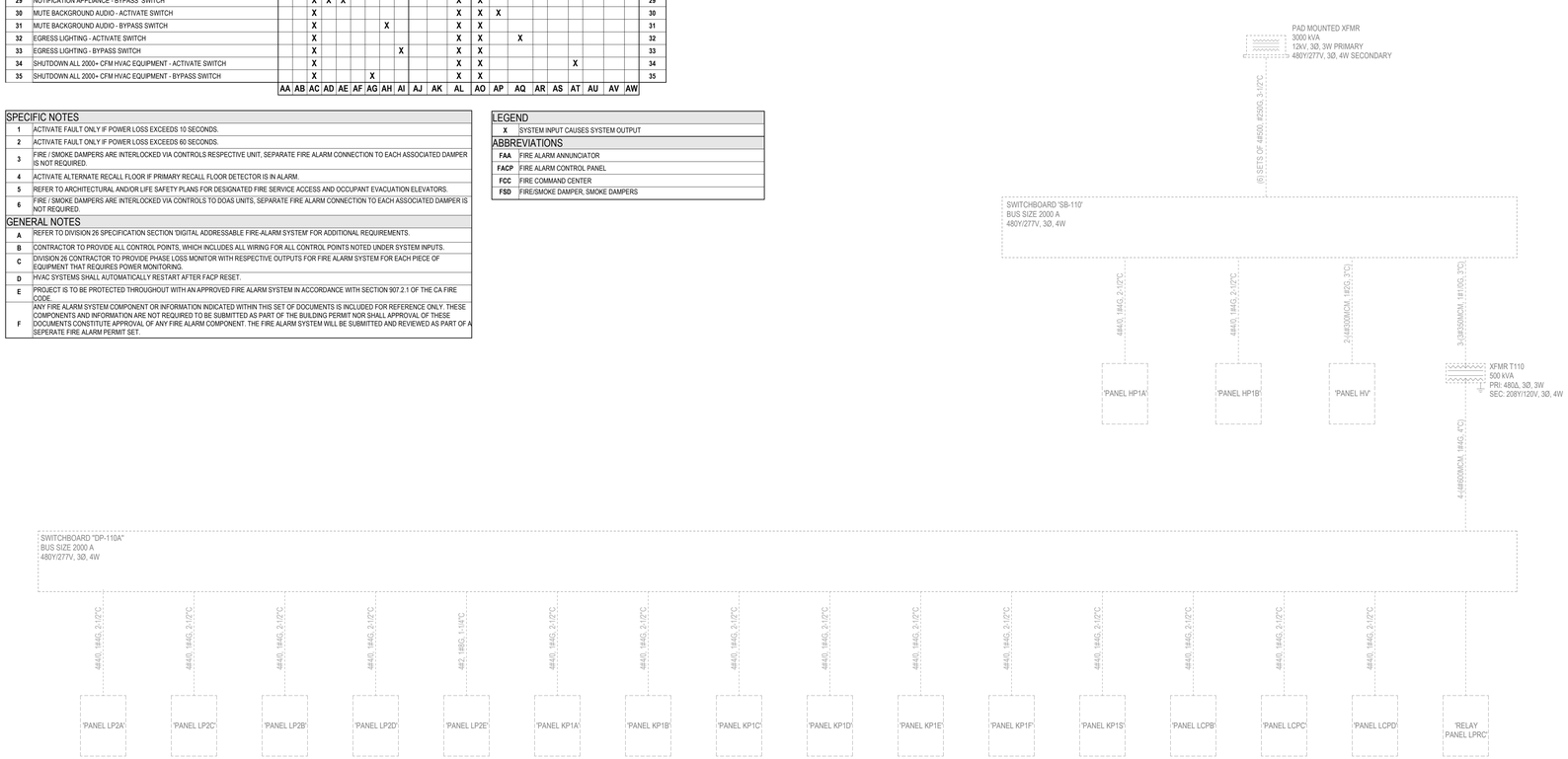


ONE LINE NOTES:

1. ALL LIGHT AND DASHED ARE EXISTING TO REMAIN AND ALL NEW CONNECTIONS ARE DARK.
2. DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR COORDINATION COMPLETE SYSTEM INSTALLATION.
3. REFER TO SPECIFICATION 263111 "DIGITAL ADDRESSABLE FIRE-ALARM SYSTEM" AND FIRE ALARM MATRIX FOR ADDITIONAL MONITORING POINTS AND ADDITIONAL REQUIREMENTS.
4. CONTRACTOR SHALL PROVIDE ADDITIONAL 120 VOLT CIRCUITS AS REQUIRED.
5. PROJECT IS TO BE PROTECTED THROUGHOUT WITH AN APPROVED FIRE ALARM SYSTEM IN ACCORDANCE WITH SECTION 907.2.1 OF THE CALIFORNIA FIRE CODE.
6. ANY FIRE ALARM SYSTEM COMPONENT OF INFORMATION INDICIATED WITHIN THIS ECTION OF DOCUMENTS IS INCLUDED FOR REFERENCE ONLY. THESE COMPONENTS AND INFORMATION ARE NOT REQUIRED TO BE SUBMITTED AS PART OF THE BUILDING PERMIT NOR SHALL APPROVAL OF THESE DOCUMENTS CONSITIUTE APPROVAL OF ANY FIRE ALARM COMPONENT. THE FIRE ALARM SYSTEM WILL BE SUBMITTED AND REVIEWED AS PART OF A SEPERATE FIRE ALARM PERMIT SET.

2 FIRE ALARM ONE-LINE

NTS



1 ELECTRICAL ONE-LINE

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PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
200 North Broadway, Suite 1000, St Louis, MO 63102
(314) 231-7318 WWW.PGAV.COM

REGISTERED PROFESSIONAL ENGINEER
Christopher Lee Hillis
20802
ELECTRICAL
STATE OF CALIFORNIA
12/09/2022

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exp U.S. Services Inc.
t: +1.407.660.0088
f: +1.407.660.1655
2601 Westhall Lane
Maitland, FL 32751
USA
www.exp.com
Project #: #220181179-00
Cert of Auth: 29701

REVISION SCHEDULE		
NO	DESCRIPTION	DATE

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

ONE-LINE DIAGRAMS - ELECTRICAL

DATE 12/09/2022

DR RES/BAL | CK BJL/KAC

PGAV 64115-00 | CLIENT SEA

SHEET NUMBER

E601

1/26/2022 6:28:58 PM

Autodesk Docs://64115-00 SWSD Shipwreck Cafe/220181179_SWSD Shipwreck_E.rvt

PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
200 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318
WWW.PGAV.COM

REGISTERED PROFESSIONAL ENGINEER
KEVIN J. BJIL
20802
ELECTRICAL
STATE OF CALIFORNIA

12/09/22

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LIGHTING ZONE LOAD...

ZONE	FIXTURE TYPE	FIXTURE WATT	QTY	TOTAL LOAD	CONTROL PROTOCOL	EM
01E	CC1	17 W	3	51 VA	TRIAC	Yes
			3	51 VA		
02	CW2	17 W	4	68 VA	TRIAC	No
			4	68 VA		
04	CP2	18 W	4	72 VA	ELV	No
			4	72 VA		
11E	D4	19 W	3	57 VA	TRIAC	Yes
			3	57 VA		
12	D4	19 W	7	133 VA	TRIAC	No
			7	133 VA		
13	D1	15 W	8	120 VA	TRIAC	No
			8	120 VA		
14E	D4	19 W	2	38 VA	TRIAC	Yes
			2	38 VA		
15	D3	20 W	6	120 VA	ELV	No
			6	120 VA		
16	PSU1	40 W	2	80 VA	PHASE	No
			2	80 VA		
17	JBOX	0 W	6	0 VA	NON DIM	No
			6	0 VA		
18	JBOX	0 W	8	0 VA	NON DIM	No
			8	0 VA		
19	D3	20 W	8	160 VA	ELV	No
			8	160 VA		
20	PSU1	40 W	2	80 VA	PHASE	No
			2	80 VA		
21E	D4	19 W	6	114 VA	TRIAC	Yes
			6	114 VA		
22	D1	15 W	4	60 VA	TRIAC	No
			4	60 VA		
23	D1	15 W	9	135 VA	TRIAC	No
			9	135 VA		
24E	CP1	18 W	4	72 VA	ELV	Yes
			4	72 VA		
25	CP1	18 W	11	198 VA	ELV	No
			11	198 VA		
26	D5	10 W	4	40 VA	TRIAC	No
			4	40 VA		
TOTAL			101	1598 VA		

DIMMER CABINET — TYPES: N=NEON; F=FLUORESCENT; L=LOW VOLTAGE; CC=CONSTANT CIRCUIT — **LCPB (DEMO)** — FL=FLICKER; ND=NON DIMMED; I=INCANDESCENT — **LOCATION** — FEEDER 225A; BUS 225A

DIM NO.	DIM TYPE	ROOM NAME	OUTPUT BRKR	NO FIX	WATTS/PHASE A	B	C	REMARKS
1		KITCHEN ENTRY	20		1500			
2		KITCHEN ENTRY	20		1500			
3		KITCHEN POSTS	20			100		
4		KITCHEN POSTS	20			100		
5		KITCHEN POSTS	20				100	
6	CC	STRING LIGHTS	20				972	
7	CC	& JAPANESE	20		972			
8	CC	LANTERNS	20		972			
9	CC	LANTERNS	20			972		
10	CC	LANTERNS	20			972		
11	CC	SPARE	20					
12	CC	LANTERNS	20				972	
13	CC	LANTERNS	20		972			
14	CC	LANTERNS	20		972			
15	CC	LANTERNS	20			972		
16	CC	LANTERNS	20			972		
17	CC	LANTERNS	20				972	
18	CC	LANTERNS	20				972	
19	CC	LANTERNS	20		972			
20	CC	LANTERNS	20		972			
21	CC	LANTERNS	20			972		
22	CC	LANTERNS	20			972		
23	CC	LANTERNS	20				972	
24	CC	LANTERNS	20				972	
25	CC	LANTERNS	20		972			
26	CC	LANTERNS	20		972			
27	CC	LANTERNS	20			972		
28	CC	LANTERNS	20			972		
29	CC	LANTERNS	20				972	
30	CC	LANTERNS	20				972	
31	CC	LANTERNS	20		972			
32	CC	DRIPPING CARGO NET	20		300			
33	CC	DRIPPING CARGO NET	20			300		
34	CC	DRIPPING CARGO NET	20			400		
35		SCRAMBLE	20				1000	
36		SCRAMBLE	20				1000	
37	CC	ENTRY GIZMO	20		500			
38	CC	ENTRY GIZMO	20		100			
39	CC	ENTRY GIZMO	20			300		
40	CC	ENTRY STRING	20			972		
41	CC	ENTRY STRING	20				972	
42	CC	ENTRY STRING	20				972	
43	CC	ENTRY STRING	20		972			
44	CC	ENTRY STRING	20		92			
45	CC	ENTRY	20			500		
46	CC	ENTRY	20			100		
47	CC	ENTRY	20				600	
48	CC	ENTRY	20				1500	
TOTAL WATT/PHASE					14592	10548	13920	

DIM NO.	DIM TYPE	ROOM NAME	OUTPUT BRKR	NO FIX	WATTS/PHASE A	B	C	REMARKS
49		SPARE	20		972			
50		SPARE	20		972			
51	D	SCRAMBLE	20			300		
52	D	SCRAMBLE	20			200		
53		SPARE	20					
54		SPARE	20					
55	D	SCRAMBLE	20		400			
56		SCRAMBLE	20		300			
57		SCRAMBLE	20			200		
58		SCRAMBLE	20			810		
59		SPARE	20					
60		SCRAMBLE	20				810	
61		SCRAMBLE	20		300			
62		SCRAMBLE	20		300			
63		TRACK	20			1440		
64		MENU LTS	20			300		
65		SCRAMBLE	20				810	
66		SCRAMBLE	20				300	
67		SCRAMBLE	20		300			
68		TRACK	20		1440			
69		MENU LTS	20			300		
70		SCRAMBLE	20			810		
71		SCRAMBLE	20				300	
72		SCRAMBLE	20				300	
73		TRACK	20		1440			
74		MENU LTS	20		300			
75		SCRAMBLE	20			810		
76		SCRAMBLE	20			300		
77		SCRAMBLE	20				300	
78		TRACK	20				1440	
79		MENU LTS	20		300			
80		DISPLAY	20		500			
81		SCRAMBLE	20			500		
82		SPARE	20					
83		SPARE	20					
84		SPARE	20					
85		SPARE	20					
86		SPARE	20					
87		LANTERNS	20					
88		SPARE	20					
89		TUNNEL	20				500	
90		TUNNEL	20				1200	
91		TUNNEL	20		900			
92		SPARE	20					
93		ENTRY BRIDGE	20			600		
94		TURTLE BEACH	20			1350		
95		SPARE	20					
96		SPARE	20					
TOTAL WATT/PHASE					8424	7920	5960	

TOTAL WATTS 61364 X 1.25 = 77 KVA
213 AMPS

GENERAL NOTES:

1 ALL CIRCUIT BREAKERS SHOWN AS LIGHT ARE EXISTING TO REMAIN. ALL CIRCUIT BREAKERS SHOWN AS DARK ARE EXISTING TO REMOVE.

DIMMER CABINET — TYPES: N=NEON; F=FLUORESCENT; L=LOW VOLTAGE; CC=CONSTANT CIRCUIT; D = DIMMED — **LCPB** — FL=FLICKER; ND=NON DIMMED; I=INCANDESCENT — **LOCATION** — FEEDER 225 A; BUS 225 A

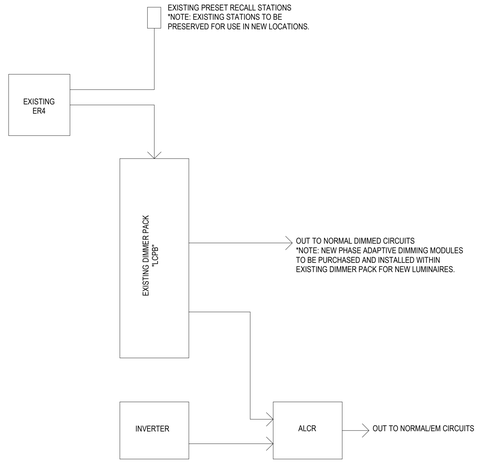
DIM NO.	DIM TYPE	ROOM NAME	OUTPUT BRKR	NO FIX	WATTS/PHASE A	B	C	REMARKS
1								
2								
3								
4								
5								
6	CC	STRING LIGHTS	20				972	
7	CC	& JAPANESE	20		972			
8	CC	LANTERNS	20		972			
9	CC	LANTERNS	20			972		
10	CC	LANTERNS	20			972		
11	CC	SPARE	20					
12	CC	LANTERNS	20				972	
13	CC	LANTERNS	20		972			
14	CC	LANTERNS	20		972			
15	CC	LANTERNS	20			972		
16	CC	LANTERNS	20			972		
17	CC	LANTERNS	20				972	
18	CC	LANTERNS	20				972	
19	CC	LANTERNS	20		972			
20	CC	LANTERNS	20		972			
21	CC	LANTERNS	20			972		
22	CC	LANTERNS	20			972		
23	CC	LANTERNS	20				972	
24	CC	LANTERNS	20				972	
25	CC	LANTERNS	20		972			
26	CC	LANTERNS	20		972			
27	CC	LANTERNS	20			972		
28	CC	LANTERNS	20			972		
29	CC	LANTERNS	20				972	
30	CC	LANTERNS	20				972	
31	CC	LANTERNS	20		972			
32	CC	DRIPPING CARGO NET	20					
33	CC	DRIPPING CARGO NET	20					
34	CC	DRIPPING CARGO NET	20					
35								
36								
37	CC	ENTRY GIZMO	20					
38	CC	ENTRY GIZMO	20					
39	CC	ENTRY GIZMO	20			300		
40	CC	ENTRY STRING	20			972		
41	CC	ENTRY STRING	20				972	
42	CC	ENTRY STRING	20				972	
43	CC	ENTRY STRING	20		972			
44	CC	ENTRY STRING	20		972			
45	CC	ENTRY	20			500		
46	CC	ENTRY	20			100		
47	CC	ENTRY	20				600	
48	CC	ENTRY	20				1500	
TOTAL WATT/PHASE					10692	9648	11820	

DIM NO.	DIM TYPE	ROOM NAME	OUTPUT BRKR	NO FIX	WATTS/PHASE A	B	C	REMARKS
49		SPARE	20		972			
50		SPARE	20		972			
51								
52								
53		SPARE	20					
54		SPARE	20					
55		Z01E	20		51			REFER TO LIGHTING SCHEDULE
56		Z02	20		68			REFER TO LIGHTING SCHEDULE
57		Z04	20			72		REFER TO LIGHTING SCHEDULE
58		Z11E	20			57		REFER TO LIGHTING SCHEDULE
59		Z12	20				133	REFER TO LIGHTING SCHEDULE
60		Z13	20				120	REFER TO LIGHTING SCHEDULE
61		Z14E	20		38			REFER TO LIGHTING SCHEDULE
62		Z15	20		200			REFER TO LIGHTING SCHEDULE
63		Z16	20			85		REFER TO LIGHTING SCHEDULE
64		Z17	20			0		REFER TO LIGHTING SCHEDULE
65		Z18	20				0	REFER TO LIGHTING SCHEDULE
66		Z19	20				200	REFER TO LIGHTING SCHEDULE
67		Z20	20		100			REFER TO LIGHTING SCHEDULE
68		Z21E	20		114			REFER TO LIGHTING SCHEDULE
69		Z22	20			60		REFER TO LIGHTING SCHEDULE
70		Z23	20			135		REFER TO LIGHTING SCHEDULE
71		Z24E	20				72	REFER TO LIGHTING SCHEDULE
72		Z25	20				198	REFER TO LIGHTING SCHEDULE
73		Z26	20		40			REFER TO LIGHTING SCHEDULE
74	ND	KK1	20		956			
75	ND	KK1	20			956		
76								
77								
78								
79								
80		DISPLAY	20		500			
81								
82		SPARE	20					
83		SPARE	20					
84		SPARE	20					
85		SPARE	20					
86		SPARE	20					
87		LANTERNS	20					
88		SPARE	20					
89		TUNNEL	20				500	
90		TUNNEL	20				1200	
91		TUNNEL	20		900			
92		SPARE	20					
93		ENTRY BRIDGE	20			600		
94		TURTLE BEACH	20			1350		
95		SPARE	20					
96		SPARE	20					
TOTAL WATT/PHASE					4911	3315	2423	

TOTAL WATTS 42809 X 1.25 = 54 KVA
149 AMPS

GENERAL NOTES:

1 ALL CIRCUIT BREAKERS SHOWN AS LIGHT ARE EXISTING TO REMAIN. ALL CIRCUIT BREAKERS SHOWN AS DARK ARE NEW.



1 LIGHTING CONTROL ONE LINE

1 1/2" = 1'-0"

REVISION SCHEDULE		
NO	DESCRIPTION	DATE

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

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ONE-LINE DIAGRAMS - LIGHTING

DATE 12/09/22
DR RES | CK BJL
PGAV 64115-00 | CLIENT SEA
SHEET NUMBER E603

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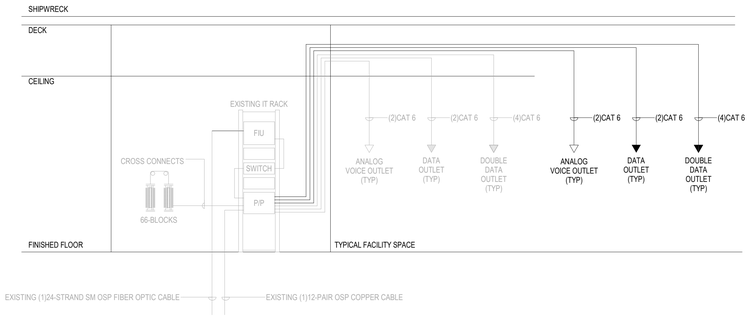
GENERAL NOTES:

1. ALL COPPER AND FIBER OPTIC CROSS CONNECTS SHALL BE COORDINATED WITH OWNER PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL VERIFY ALL SWSD CABLE NUMBERS WITH SWSD IT PRIOR TO CABLE LABELING.
3. CONTRACTOR SHALL FURNISH AND INSTALL (1) ADDITIONAL VOICE GATEWAY TO EXPAND EXISTING IP PHONE SYSTEM IN ORDER TO SERVE NEW IP PHONES. COORDINATE EXACT GATEWAY TYPE AND INSTALLATION REQUIREMENTS WITH OWNER PRIOR TO INSTALLATION.

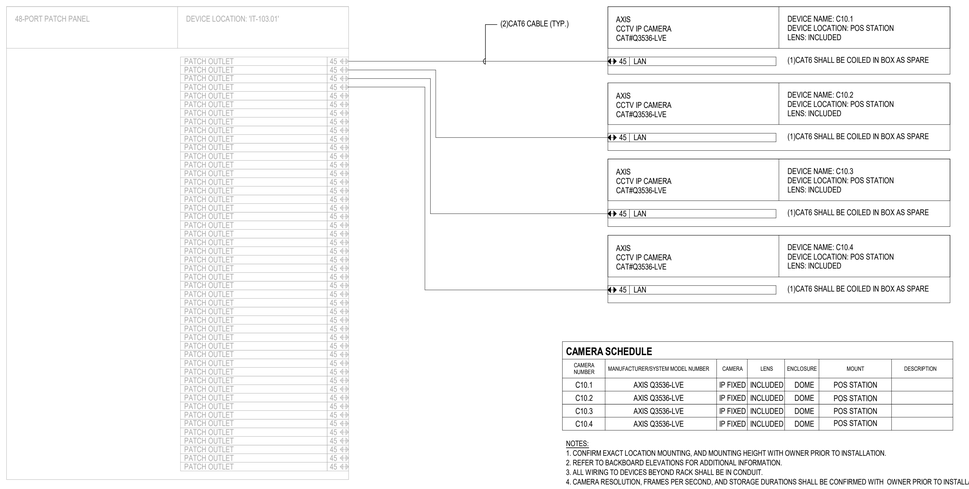


2 ONE-LINE DIAGRAMS-SYSTEMS

NTS

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL SWSD CABLE NUMBERS WITH SWSD IT PRIOR TO CABLE LABELING.
2. ALL CAMERAS SHALL BE AIRGAPPED PER SWSD PARK STANDARDS.



CAMERA SCHEDULE

CAMERA NUMBER	MANUFACTURER/SYSTEM MODEL NUMBER	CAMERA	LENS	ENCLOSURE	MOUNT	DESCRIPTION
C10.1	AXIS Q3536-LVE	IP FIXED	INCLUDED	DOME	POS STATION	
C10.2	AXIS Q3536-LVE	IP FIXED	INCLUDED	DOME	POS STATION	
C10.3	AXIS Q3536-LVE	IP FIXED	INCLUDED	DOME	POS STATION	
C10.4	AXIS Q3536-LVE	IP FIXED	INCLUDED	DOME	POS STATION	

NOTES:
1. CONFIRM EXACT LOCATION MOUNTING, AND MOUNTING HEIGHT WITH OWNER PRIOR TO INSTALLATION.
2. REFER TO BACKBOARD ELEVATIONS FOR ADDITIONAL INFORMATION.
3. ALL WIRING TO DEVICES BEYOND RACK SHALL BE IN CONDUIT.
4. CAMERA RESOLUTION, FRAMES PER SECOND, AND STORAGE DURATIONS SHALL BE CONFIRMED WITH OWNER PRIOR TO INSTALLATION AND SYSTEM COMMISSIONING.

CONNECTOR ABBREVIATIONS

3	3.5 MM MINI STEREO JACK
11	RJ11
45	RJ45
B	COAX BNC
D	DVI
DM	MINI DIN, 4-PIN
F	COAX F-CONNECTOR
H	HDMI
IR	IR EMITTER
LC	LC TYPE FIBER OPTIC TERMINATION
M	MINI D-SUB, 15-PIN (HD-15)
M9	MINI D-SUB, 9-PIN
P	PHOENIX
PW	POWER
R	RCA
S	SCREW TERMINATION
SC	SC TYPE FIBER OPTIC TERMINATION
ST	ST TYPE FIBER OPTIC TERMINATION
T	S/PDIF TOSLINK (FIBER OPTIC)
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
U	USB A
V	SVGA
X3	3-PIN XLR
X5	5-PIN XLR

1 ONE-LINE DIAGRAMS CCTV

NTS

PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
300 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318 WWW.PGAV.COM

exp U.S. Services Inc.
t: +1.407.660.0088
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REGISTERED PROFESSIONAL ENGINEER — 20802 — ELECTRICAL — STATE OF CALIFORNIA

12/09/2022

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NO	DESCRIPTION	DATE

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ONE-LINE DIAGRAMS - TECHNOLOGY

DATE	12/09/2022
DR	RES/BAL
CK	BJL/KAC
PGAV	64115-00
CLIENT	SEA

SHEET NUMBER

E610

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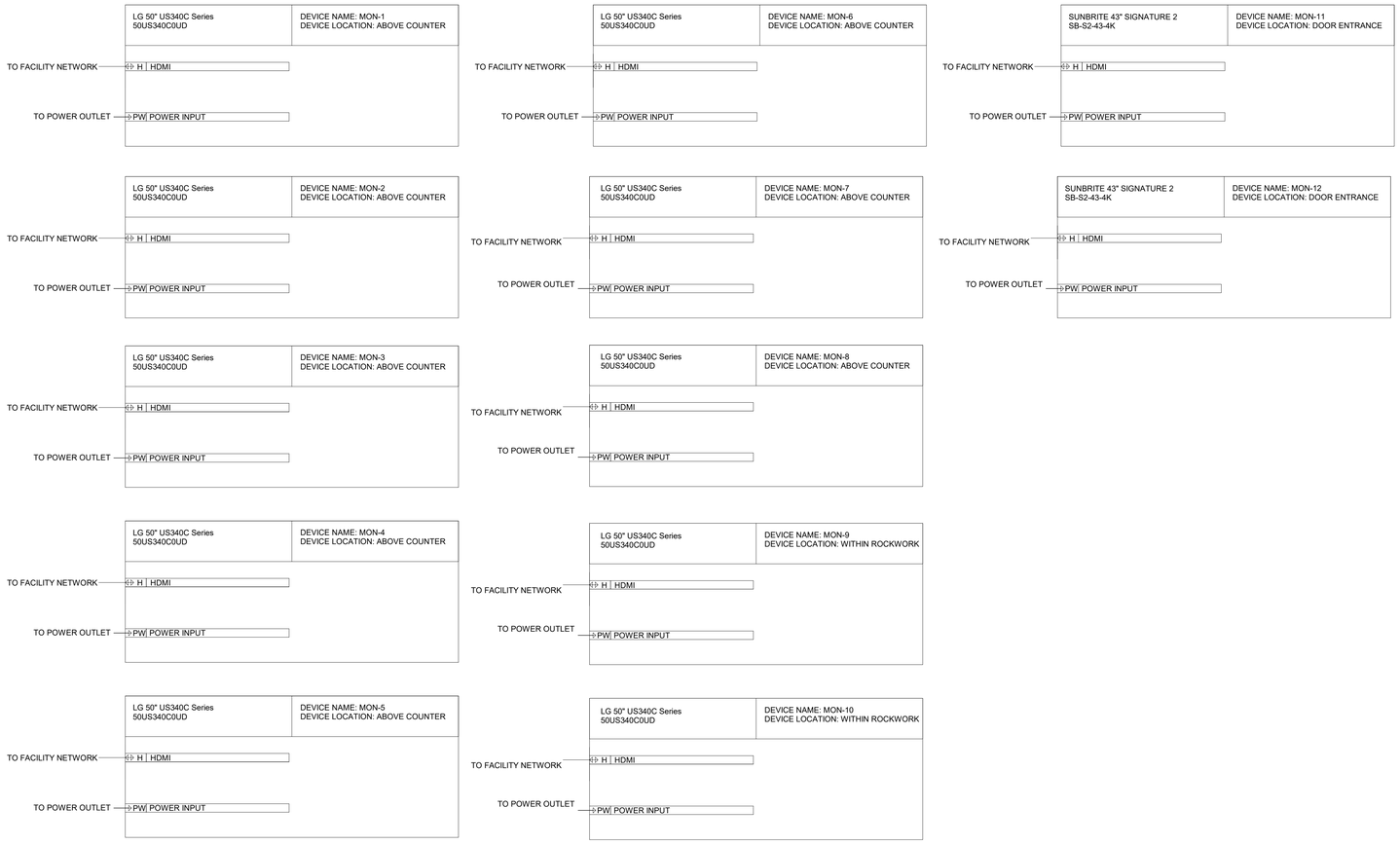
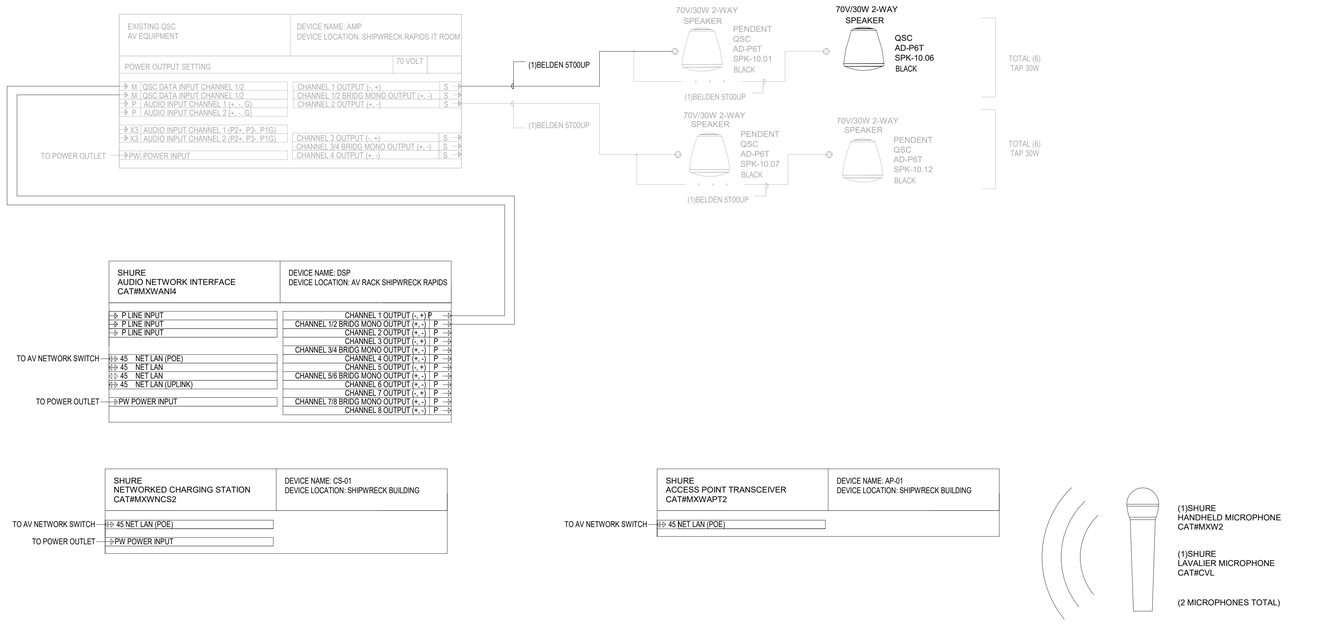


2 ONE-LINE DIAGRAMS AV-SYSTEMS

NTS



1 ONE-LINE DIAGRAMS AV-SYSTEMS

NTS

PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
300 North Broadway, Suite 1900, St Louis, MO 63102
(314) 231-7318 WWW.PGAV.COM

REGISTERED PROFESSIONAL ENGINEER
BRIAN J. LILLIE
20802
ELECTRICAL
STATE OF CALIFORNIA

12/09/2022

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f: +1.407.660.1655
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NO	DESCRIPTION	DATE

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ONE-LINE DIAGRAMS - TECHNOLOGY

DATE 12/09/2022

DR RES/BAL | CK BJL/KAC

PGAV 64115-00 | CLIENT SEA

SHEET NUMBER

E611

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EQUIPMENT CONNECTION SCHEDULE

ID	EQUIPMENT DESCRIPTION	EQUIPMENT LOAD	VOLTAGE	PHASE Ø	STARTER TYPE	DISCONNECTING MEANS	CIRCUITED TO PANEL	FEEDER OR BRANCH WIRE SIZE	NOTES
AH-1	AIR HANDLING UNIT	17.15MCA	480 V	3	VFD	FD	HP1B	25G	
AH-1-C	AIR HANDLING UNIT CONTROLS	0.5KW	120 V	1	N/A	N/A	LP2B	2#12, #12G, 3/4"C	
AH-2	AIR HANDLING UNIT	47.75MCA	480 V	3	VFD	FD	HP1B	70G	
AH-2-C	AIR HANDLING UNIT CONTROLS	0.5KW	120 V	1	N/A	N/A	LP2B	2#12, #12G, 3/4"C	
EF-2	EXHAUST FAN	1HP	480 V	3	ECM	FD	HP1B	15G	
EF-5	EXHAUST FAN	1HP	480 V	3	ECM	FD	HP1B	15G	

EQUIPMENT CONNECTION SCHEDULE GENERAL NOTES

A. VERIFY ALL MCA AND MOCP REQUIREMENTS WITH SUBMITTED AND APPROVED EQUIPMENT PRIOR TO ELECTRICAL ROUGH-IN.
B. REFER TO SPECIFICATIONS FOR SPECIFIC REQUIREMENTS AND SCOPE FOR CONTROL WIRING, POWER WIRING, DISCONNECT, AND STARTING MEANS.
C. VERIFY ALL INSTALLATION REQUIREMENTS WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
D. REFER TO DIVISION 23 SPECIFICATION "COMMON MOTOR REQUIREMENTS FOR HVAC EQUIPMENT" FOR SCOPE REQUIREMENTS REGARDING STARTERS AND DISCONNECTS.
E. REFER TO DIVISION 22 SPECIFICATION "COMMON MOTOR REQUIREMENTS FOR PLUMBING EQUIPMENT" FOR SCOPE REQUIREMENTS REGARDING STARTERS AND DISCONNECTS.
F. LOCATIONS OF STARTERS, VFD'S, AND DISCONNECTS FOR EACH PIECE OF EQUIPMENT MAY NOT BE SHOWN ON PLANS. IF NOT SHOWN, CONTRACTOR TO FIELD COORDINATE LOCATION MAINTAINING REQUIRED WORKING CLEARANCES IN ACCORDANCE WITH CODE.
G. DISCONNECTING MEANS - 'DR' DESIGNATES 20A, 120V DUPLEX RECEPTACLE, 'SR' DESIGNATES 20A, 120V SIMPLEX RECEPTACLE, 'NEMA X-XX' DESIGNATES NEMA PLUG TYPE AND AMPERAGE, 'HPRS' DESIGNATES HORSEPOWER-RATED SWITCH, 'FD' DESIGNATES A FUSED DISCONNECT, 'NF' DESIGNATES A NON-FUSED DISCONNECT, 'L' DESIGNATES LOCKABLE CIRCUIT BREAKER. VERIFY CONNECTION REQUIREMENTS WITH DIVISION 22 AND 23, CONTRACTORS PRIOR TO ROUGH-IN.
H. FUSED DISCONNECTS SHALL HAVE FUSES SIZED AS LISTED ON EQUIPMENT NAMEPLATE, OTHERWISE MATCH UPSTREAM OVERCURRENT DEVICE IF NO MAXIMUM OVERCURRENT SIZE LISTED ON EQUIPMENT, UNLESS NOTED OTHERWISE.
I. FOR ALL EQUIPMENT WITH NON-INTEGRAL STARTER/DISCONNECT/VFD, CONTRACTOR SHALL RUN CONDUIT AND WIRE FROM PANEL TO STARTER/DISCONNECT/VFD AND THEN FROM STARTER/DISCONNECT/VFD TO EQUIPMENT.
J. STARTER TYPE DESIGNATIONS: ECM - ELECTRONICALLY COMMUTATED MOTOR, FVNR - FULL VOLTAGE NON-REVERSING, RVSS - REDUCED VOLTAGE SOLID STATE, VFD - VARIABLE FREQUENCY DRIVE, VFD W/BYPASS - VARIABLE FREQUENCY DRIVE WITH BYPASS, INTEGRAL - STARTER IS INTEGRAL TO EQUIPMENT OR COMES FROM THE FACTORY WITH FACTORY MOUNTED STARTER, NA - NOT APPLICABLE.
K. REFER TO FEEDER SCHEDULES FOR FEEDER WIRE SIZES FOR ALL 3 PHASE EQUIPMENT.
L. FOR MOTORS WITH ECM CONTROL, PROVIDE RELAY/CONTACTOR AS REQUIRED FOR FIRE ALARM SHUTDOWN.
M. IF VFD OR STARTER IS LOCATED AT EQUIPMENT THEN INTEGRAL DISCONNECT TO STARTER OR VFD CAN SERVE AS THE CODE REQUIRED DISCONNECTING MEANS.
N. ANY CONTROL POWER REQUIRED SHALL BE FROM SAME BRANCH OF POWER AS POWER FEED SERVING UNITS.
O. ALL STARTERS AND VFDS SHALL BE SIZED IN ACCORDANCE WITH EQUIPMENT RATINGS AND REQUIREMENTS.

COPPER FEEDER SCHEDULE

FEEDER DESIGNATION	No. OF SETS	PHASE CONDUCTORS (PER SET)	N NEUTRAL CONDUCTOR (PER SET)	G GROUND CONDUCTOR (PER SET)	SG SYSTEM BONDING JUMPER (PER SET)	P PARTIAL NEUTRAL SERVICE CONDUCTOR (PER SET)	I ISOLATED GROUND CONDUCTOR (PER SET)	CONDUIT SIZE - CONDUIT TYPES EMT, FMC, LFMC, IMC, GRC, SCH 40 PVC		
								3 PHASE & GROUND G (PER SET)	3 PHASE NEUTRAL & GROUND P, N, NG, NSG (PER SET)	3 PHASE NEUTRAL GROUND & ISOLATED GROUND NGI, NSGI (PER SET)
15	1	3 # 12	1 # 12	1 # 12	1 # 8		1 # 12	3/4"	3/4"	3/4"
20	1	3 # 12	1 # 12	1 # 12	1 # 8		1 # 12	3/4"	3/4"	3/4"
30	1	3 # 10	1 # 10	1 # 10	1 # 8		1 # 10	3/4"	3/4"	3/4"
40/50	1	3 # 8	1 # 8	1 # 10	1 # 8		1 # 10	3/4"	3/4"	1"
60	1	3 # 6	1 # 6	1 # 10	1 # 8		1 # 10	3/4"	1"	1"
70/80	1	3 # 4	1 # 4	1 # 8	1 # 8		1 # 8	1"	1 1/4"	1 1/4"
100/110	1	3 # 2	1 # 2	1 # 6	1 # 8	1 # 8	1 # 6	1 1/4"	1 1/4"	1 1/2"
125	1	3 # 1	1 # 1	1 # 6	1 # 6	1 # 6	1 # 6	1 1/2"	1 1/2"	1 1/2"
150	1	3 # 1/0	1 # 1/0	1 # 6	1 # 6	1 # 6	1 # 6	1 1/2"	2"	2"
175	1	3 # 2/0	1 # 2/0	1 # 6	1 # 4	1 # 4	1 # 6	1 1/2"	2"	2"
200	1	3 # 3/0	1 # 3/0	1 # 6	1 # 4	1 # 4	1 # 6	2"	2"	2"
225	1	3 # 4/0	1 # 4/0	1 # 4	1 # 2	1 # 2	1 # 4	2"	2 1/2"	2 1/2"
250	1	3 # 250	1 # 250	1 # 4	1 # 2	1 # 2	1 # 4	2"	2 1/2"	2 1/2"
300	1	3 # 350	1 # 350	1 # 4	1 # 2	1 # 2	1 # 4	2 1/2"	3"	3"
350	1	3 # 500	1 # 500	1 # 3	1 # 1/0	1 # 1/0	1 # 3	3"	4"	4"
400	2	3 # 3/0	1 # 3/0	1 # 3	1 # 1/0	1 # 1/0	1 # 3	2"	2"	2 1/2"
450	2	3 # 4/0	1 # 4/0	1 # 2	1 # 1/0	1 # 1/0	1 # 2	2"	2 1/2"	2 1/2"
500	2	3 # 250	1 # 250	1 # 2	1 # 1/0	1 # 1/0	1 # 2	2 1/2"	2 1/2"	3"
600	2	3 # 350	1 # 350	1 # 1	1 # 2/0	1 # 2/0	--	2 1/2"	3"	--
700	2	3 # 500	1 # 500	1 # 1/0	1 # 2/0	1 # 2/0	--	3"	4"	--
800	3	3 # 300	1 # 300	1 # 1/0	1 # 2/0	1 # 2/0	--	2 1/2"	3"	--
1000	3	3 # 400	1 # 400	1 # 2/0	1 # 3/0	1 # 3/0	--	3"	3"	--
1200	4	3 # 350	1 # 350	1 # 3/0	1 # 4/0	1 # 4/0	--	2 1/2"	3"	--
1600	5	3 # 400	1 # 400	1 # 4/0	1 # 250	1 # 250	--	3"	3"	--
2000	6	3 # 400	1 # 400	1 # 250	1 # 300	1 # 300	--	3"	3"	--
2500	7	3 # 500	1 # 500	1 # 350	1 # 500	1 # 500	--	3"	4"	--
3000	8	3 # 500	1 # 500	1 # 400	1 # 500	1 # 500	--	3"	4"	--
4000	11	3 # 500	1 # 500	1 # 500	2 # 350	1 # 500	--	4"	4"	--

EXAMPLES:
1. 150NG = INDICATES (1) SET OF 3#1/0 + 1#1/0 NEUTRAL + 1#6 GROUND
2. 400NGI = INDICATES (2) SETS OF 3#3/0 + 1#3/0 NEUTRAL + 1#3 GROUND + 1#3 ISOLATED GROUND CONDUCTORS PER SET
3. 500P = INDICATES (2) SETS OF 3#250 + 1#1/0 PARTIAL NEUTRAL SERVICE CONDUCTORS PER SET

BACK OF HOUSE LUMINAIRE SCHEDULE

REV Δ	TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	DIMENSIONS	UL/IP	FINISH COLOR	FINISH TYPE	MATERIAL	MOUNTING	PERFORMANCE LUMENS PACKAGE	PERFORMANCE CCT	PERFORMANCE CRI	PERFORMANCE WATT	VOLTAGE	ACCESSORIES	NOTES
KK: KITCHEN																	
	KK1	DAYBRITE METALUX LITHONIA COLUMBIA	2FXP389835-2-DG-UNV-DIM 22FP4235C EPANL 2X2 4000LMHE 80CRI 35K MIN1 EZT MVOLT CFP22-4035	EDGELIT FLAT PANEL LUMINAIRE WITH EXTRUDED FRAME AND PRECISION WELDED CORNERS, WITH INTEGRAL CLIPS FOR SECURING TO T-BAR GRID	2'W X 2'L X 2'D		GLOSS WHITE	ENAMEL	ALUMINUM	RECESSED	3800 4600 4000 4000	3500K	80	32 39 33 30	UNIVERSAL	GRID	
XX: EXIT / EMERGENCY																	
	XX1	LITHONIA SURE-LITES BEGHELLI HUBBELL	LQM-S-W-3-R-120/277 APX6R VAR6RT CAR	ARCHITECTURAL LED EXIT SIGN. PROVIDED WITH RED LETTERS, WHITE HOUSING, AND WITH AC ONLY	12"W X 7.5"H X 1.5"D	DAMP LOCATION LISTED	WHITE	NA	THERMO-PLASTIC	UNIVERSAL MOUNTING	NA	NA	NA	1 1.14 3.2 2	UNIVERSAL		
	XX2	BEGHELLI SURE-LITES EXITRONIX HUBBELL	BRU-HT-LR-U-M EUX71RWH 902E-LB-SR-RC-WH CELS1-R-N	SINGLE FACE ARCHITECTURAL EDGE LIT EXIT SIGN. PROVIDED WITH RED LEDS AND LETTERS. FACE IS CLEAR, AND FIELD SELECTABLE CHEVRONS, AC ONLY	12"W X 7.5"H X 1.5"D	DAMP LOCATION LISTED	WHITE	POWDER-COATED	ALUMINUM / ACRYLIC	UNIVERSAL MOUNTING	NA	NA	NA	2 1.5 5 1	UNIVERSAL		

LUMINAIRE SCHEDULE

REV Δ	TYPE	MANUFACTURER	REPRESENTATIVE	MODEL	DESCRIPTION	DIMENSIONS	UL/IP	FINISH	MATERIAL	MOUNTING	LAMP MANUFACTURER	LAMP MODEL	LAMP QTY	LAMP OPTIC	LAMP CCT	LAMP CRI	LAMP LUMENS	LAMP WATT	VOLTAGE	LISTED WATTAGE	CONTROL GEAR	ACCESSORIES	NOTES
C: CHARACTER																							
	CC1	BARNLIGHT	PLP // JOSEPH YAM // 213.477.1609	BLE-F-ULM12-400-NA-400-NA-NA-400-RIB-NA-LE D16.8-3000K	DECORATIVE FLUSH MOUNT - EXTERIOR - TO REPLACE EXISTING LUMINAIRES	9" H X 12" DIA	CSA WET	BARN RED	ALUMINUM	SURFACE	INTEGRAL	WHITE LED	1	--	3000K	90	1600	17 W	120V	17 VA	TRIAC DIMMING		
	CP1	SPECTRUM LIGHTING	SCI // MICHAEL SHEARER // 949-294-6983	SB1014GV-27L-30HK-DS2W1-PM-MWI-MWI	DECORATIVE PENDANT - INTERIOR - WHITE FINISH	10.8"H X 14.5" DIA	ETL DAMP	MATTE WHITE	ALUMINUM	SUSPENDED	INTEGRAL	WHITE LED	1	--	3000K	90	1808	18 W	120V	18 VA	ELV DIMMING TO 10%		1
	CP2	SPECTRUM LIGHTING	SCI // MICHAEL SHEARER // 949-294-6983	SB1014GV-27L-30HK-DS2W1-PM-MWI-CCI(RD)-W LKA	DECORATIVE PENDANT - EXTERIOR - RED FINISH	10.8"H X 14.5" DIA	ETL WET	RED	ALUMINUM	SUSPENDED	INTEGRAL	WHITE LED	1	--	3000K	90	1808	18 W	120V	18 VA	ELV DIMMING TO 10%		1
	CW2	BARNLIGHT	PLP // JOSEPH YAM // 213.477.1609	BLE-W-CGG-400-NA-CGG-400-RIB-NA-LED16.8-3 000K	WALL SCONCE - FRONT ENTRANCE	6" X 6.58" X 12"	CSA WET	BARN RED	ALUMINUM	SURFACE	INTEGRAL	WHITE LED	1	--	3000K	90	1600	17 W	120V	17 VA	TRIAC DIMMING		
D: DOWNLIGHT																							
	D1	WAC	SCI // MICHAEL SHEARER // 949-294-6983	R2FRAT-F-15W-930-FINISH TBD; R2FBNT-15W	RECESSED ADJUSTABLE 2" DOWNLIGHT, FLOOD OPTIC, THEMEING	5" X 4" DIA	ETL WET	TBD	ALUMINUM	RECESSED	INTEGRAL	WHITE LED	1	FLOOD	3000K	90	1200	15 W	UNV	15 VA	TRIAC DIMMING		
	D2	FLEXA	SCI // MICHAEL SHEARER // 949-294-6983	SJ1-6-2-30; MP-R040	RECESSED FIXEDE 2" DOWNLIGHT, FLOOD OPTIC, OVER ORDER COUNTER	4"H X 6"W X 2" DIA	ETL DAMP	MATTE WHITE	ALUMINUM	RECESSED	INTEGRAL	WHITE LED	1	FLOOD	3000K	90	610	7.5 W	24V	8 VA	REMOTE PHASE DIMMING DRIVER - TYPE PSU1		
	D3	LUMENWERX	LIGHT BUILD DESIGN // KEN DOWNING // 310-410-9330	HEMLR-22-NA-TRM-SW-NA-OF-MOUNTING PER CONTRACTOR; 120-10W-NA-ELV; HEMLL-22(SW-30-2-90-30-LS-HEX-TMW-TRM-TM W-TMW-TMW	RECESSED 6" DOWNLIGHT, TWO ADJUSTABLE MODULES, 30 DEG OPTIC, OPEN FRAME INSTALLATION - OVER ORDER COUNTER	6" H X 7.25" DIA	ETL DAMP	MATTE WHITE	ALUMINUM	RECESSED	INTEGRAL	WHITE LED	1	30 DEG	3000K	90	(2) 1012	20 W	120V	20 VA	ELV DIMMING TO 10%	LINEAR SPREAD, HEX CELL LOUVER	
	D4	WAC	SCI // MICHAEL SHEARER // 949-294-6983	R4FRDT-W-930-19W-FINISH TBD; R4FBNT-19W	RECESSED FIXED 4" DOWNLIGHT, WIDE OPTIC, THROUGHOUT	5-3/8" X 5-1/2" DIA	ETL WET	TBD	ALUMINUM	RECESSED	INTEGRAL	WHITE LED	1	WIDE	3000K	90	1400	19 W	UNV	19 VA	TRIAC DIMMING		
	D5	ELITE	ELITE // BLANCA OSEGUERA // 323-880-8318	A1R-F-1106-LED-800L-MD-30K-90-W-WH; A1R-LED-IC-10W-DIMTR-120-AT	RECESSED ADJUSTABLE SPOTLIGHT, MEDIUM OPTIC, DIRECTIONAL SIGNAGE	5-3/8" X 5-1/2" DIA	UL DAMP LOCATIO NS	TBD	ALUMINUM	RECESSED	INTEGRAL	WHITE LED	1	MEDIUM	3000K	90	800	10 W	UNV	10 VA	TRIAC DIMMING		
J: JUNCTION BOX																							
	JBOX	PER CONTRACTOR	PER CONTRACTOR	PER CONTRACTOR	RECESSED JBOX FOR CUSTOM ORDER COUNTER ILLUMINATED SIGN	--	--	--	--	RECESSED	--	--	1	--	--	--	--	0 W	120V	0 VA	NON DIM		
Q: POWER SUPPLY																							
	PSU1	FLEXA	SCI // MICHAEL SHEARER // 949-294-6983	CCPRO40-A	40W, PHASE DIMMING POWER SUPPLY FOR LUMINAIRE TYPE D2	--	UL DRY	--	--	SURFACE	--	--	1	--	--	--	--	40 W	UNV	40 VA	PHASE DIMMING		

FRONT OF HOUSE LUMINAIRE SCHEDULE NOTES:
GENERAL NOTES:
A. REFER TO INTERIOR DESIGNER DRAWINGS FOR ADDITIONAL SPECIFICATION INFORMATION FOR DECORATIVE LUMINAIRES.
B. ARCHITECT/ID TO CONFIRM FINAL FINISH FOR ALL LUMINAIRES PRIOR TO PROCUREMENT.
C. CONTRACTOR TO CONFIRM COMPATIBILITY OF ALL PROCURED LUMINAIRES WITH DIMMING SYSTEM FOR A COMPLETE WORKING SYSTEM.

FIXTURE SPECIFIC NOTES:
1. CONTRACTOR TO CONFIRM STEM HEIGHT REQUIRED TO MOUNT LUMINAIRE AT DESIRED HEIGHT. REFER TO ID DRAWINGS FOR HEIGHT AFF.

KITCHEN EQUIPMENT CONNECTION SCHEDULE

ID	EQUIPMENT DESCRIPTION	EQUIPMENT LOAD	VOLTAGE	PHASE Ø	DISCONNECTING MEANS	CIRCUITED TO PANEL	FEEDER OR BRANCH WIRE SIZE	NOTES
2.1	BEVERAGE COOLERS	9 A	120 V	1	DR	KP1A	2#12, #12G	
2.2	BEVERAGE COOLERS	9 A	120 V	1	DR	KP1A	2#12, #12G	
2.3	BEVERAGE COOLERS	9 A	120 V	1	DR	KP1B	2#12, #12G	
2.4	BEVERAGE COOLERS	9 A	120 V	1	DR	KP1B	2#12, #12G	
3.1	REFRIGERATOR	7 A	120 V	1	DR	KP1A	2#12, #12G	
3.2	REFRIGERATOR	7 A	120 V	1	DR	KP1B	2#12, #12G	
4.1	HOT HOLDING CABINETS	16 A	120 V	1	DR	KP1A	2#12, #12G	
4.2	HOT HOLDING CABINETS	16 A	120 V	1	DR	KP1A	2#12, #12G	
4.3	HOT HOLDING CABINETS	16 A	120 V	1	DR	KP1A	2#12, #12G	
4.4	HOT HOLDING CABINETS	16 A	120 V	1	DR	KP1B	2#12, #12G	
4.5	HOT HOLDING CABINETS	16 A	120 V	1	DR	KP1B	2#12, #12G	
4.6	HOT HOLDING CABINETS	16 A	120 V	1	DR	KP1B	2#12, #12G	
4.7	HOT HOLDING CABINETS	16 A	120 V	1	DR	KP1C	2#12, #12G	
4.8	HOT HOLDING CABINETS	16 A	120 V	1	DR	KP1C	2#12, #12G	
5	ASSEMBLY COUNTER	90 A	208 V	3	L	KP1E	12SNG	
6C	PIZZA OVENS	37 A	208 V	1	NEMA 6-50R	KP1E	2#8, #10G	
6D	PIZZA OVENS	37 A	208 V	1	NEMA 6-50R	KP1E	2#8, #10G	
15.1	HEAT LAMPS	16 A	120 V	1	INTEGRAL	KP1E	2#12, #12G	
15.2	HEAT LAMPS	16 A	120 V	1	INTEGRAL	KP1B	2#12, #12G	
17.5	FROZEN DRINK MACHINES	15 A	120 V	1	DR	KP1C	2#12, #12G	
17.6	FROZEN DRINK MACHINES	15 A	120 V	1	DR	KP1C	2#12, #12G	
19.1	FRYER UNIT	15 A	120 V	1	(2) DR [EXISTING]	KP1S	2#12, #12G	1,3
19.2	FRYER UNIT	15 A	120 V	1	(2) DR [EXISTING]	KP1S	2#12, #12G	1,3
20A	DOUBLE SIDED GRILL	32 A	208 V	3	NEMA 15-50R	KP1B	50NG	3
20B	DOUBLE SIDED GRILL	32 A	208 V	3	NEMA 15-50R	KP1B	50NG	3
22	HOOD LIGHTS	15 A	120 V	1	L	KP1A	2#12, #12G	
23	FIRE PROTECTION SYSTEM	16 A	120 V	1	L	KP1A	2#12, #12G	
25.1	FREEZERS	15 A	120 V	1	DR [EXISTING]	KP1E	2#12, #12G	1
25.2	FREEZERS	15 A	120 V	1	DR	KP1C	2#12, #12G	
27	REFRIGERATED PREP TABLE	9 A	120 V	1	N/A	KP1E	2#12, #12G	1
28	ROLL IN REFRIGERATOR	13 A	120 V	1	DR	KP1S	2#12, #12G	2
30.1	ICE MACHINE	25 A	208 V	1	INTEGRAL [EXISTING]	KP1S	EXISTING	1
30.2	ICE MACHINE	25 A	208 V	1	INTEGRAL [EXISTING]	KP1S	EXISTING	1
30.3	ICE MACHINE	25 A	208 V	1	INTEGRAL [EXISTING]	KP1C	EXISTING	1
30.4	ICE MACHINE	25 A	208 V	1	INTEGRAL [EXISTING]	KP1C	EXISTING	1
31.1	REFRIGERATORS	5 A	120 V	1	DR	KP1A	2#12, #12G	
31.2	REFRIGERATORS	5 A	120 V	1	DR	KP1C	2#12, #12G	
32	ASSEMBLY COUNTER	88 A	208 V	3	L	KP1E	12SNG	
39.1	UNDER COUNTER REFRIGERATOR	3 A	120 V	1	DR	KP1B	2#12, #12G	
39.2	UNDER COUNTER REFRIGERATOR	3 A	120 V	1	DR	KP1B	2#12, #12G	
39.3	UNDER COUNTER REFRIGERATOR	3 A	120 V	1	DR	KP1B	2#12, #12G	
39.4	UNDER COUNTER REFRIGERATOR	3 A	120 V	1	DR	KP1B	2#12, #12G	
39.5	UNDER COUNTER REFRIGERATOR	3 A	120 V	1	DR	KP1C	2#12, #12G	
39.6	UNDER COUNTER REFRIGERATOR	3 A	120 V	1	DR	KP1C	2#12, 1#12G	
39.7	UNDER COUNTER REFRIGERATOR	3 A	120 V	1	DR	KP1C	2#12, #12G	
45	ASSEMBLY COUNTER	6 A	120 V	1	DR	KP1E	2#12, #12G	
47	ROLL THRU REFRIGERATOR	13 A	120 V	1	DR	KP1E	2#12, #12G	
49	ASSEMBLY COUNTER	61 A	208 V	3	L	KP1E	60NG	
51	PASS THRU REFRIGERATOR	7 A	120 V	1	DR	KP1C	2#12, #12G	
52A	DOUBLE SIDED GRILL	48 A	208 V	3	NEMA 15-60R	KP1S	60NG	3
52B	DOUBLE SIDED GRILL	48 A	208 V	3	NEMA 15-60R	KP1S	60NG	3
54A	FIRE PROTECTION SYSTEM	15 A	120 V	1	N/A	KP1C	2#12, #12G	
54B	FIRE PROTECTION SYSTEM	16 A	120 V	1	N/A	KP1C	2#12, #12G	
59	SODA SYSTEM	6 A	120 V	1	DR	KP1E	2#12, #12G	
63.1	ICE AND SODA UNITS	2 A	120 V	1	DR	KP1C	2#12, #12G	
63.2	ICE AND SODA UNITS	2 A	120 V	1	DR	KP1C	2#12, #12G	
63.3	ICE AND SODA UNITS	2 A	120 V	1	DR	KP1C	2#12, #12G	
63.4	ICE AND SODA UNITS	2 A	120 V	1	DR	KP1C	2#12, #12G	
64.1	ICE MAKERS	12 A	120 V	1	DR	KP1C	2#12, #12G	
64.2	ICE MAKERS	12 A	120 V	1	DR	KP1C	2#12, #12G	
64.3	ICE MAKERS	12 A	120 V	1	DR	KP1C	2#12, #12G	
64.4	ICE MAKERS	12 A	120 V	1	DR	KP1C	2#12, #12G	

KITCHEN EQUIPMENT CONNECTION SCHEDULE GENERAL NOTES

A. THIS SCHEDULE SHOWS ALL CIRCUITING INFORMATION FOR KITCHEN / FOOD SERVICE EQUIPMENT. REFER TO KITCHEN DESIGNER'S / FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION SUCH AS ROUGH-IN INFORMATION AND OTHER REQUIREMENTS.
B. DISCONNECTING MEANS - 'DR' DESIGNATES 20A, 120 V DUPLEX RECEPTACLE, 'QR' DESIGNATES 20A, 120V QUAD RECEPTACLE, 'SR' DESIGNATES 20A, 120V SIMPLEX RECEPTACLE, NEMA X-XX DESIGNATES NEMA PLUG TYPE AND AMERAGE, 'HPRS' DESIGNATES HORSEPOWER-RATED SWITCH, 'FD' DESIGNATES A FUSED DISCONNECT, 'NF' DESIGNATES A NON-FUSED DISCONNECT, 'L' DESIGNATES LOCKABLE CIRCUIT BREAKER.
C. VERIFY ALL INSTALLATION REQUIREMENTS WITH FOOD SERVICE CONSULTANT AND EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
D. VERIFY ALL MCA AND MOCP REQUIREMENTS WITH SUBMITTED AND APPROVED EQUIPMENT PRIOR TO ELECTRICAL ROUGH-IN.
E. VERIFY NEMA RECEPTACLE CONFIGURATIONS WITH EQUIPMENT VENDOR PRIOR TO ELECTRICAL ROUGH-IN.
F. WHERE A CONFLICT OCCURS BETWEEN FOOD SERVICE / KITCHEN DESIGNER'S DRAWINGS AND THESE DRAWINGS, THE FOOD SERVICE / KITCHEN DESIGNER'S DRAWINGS SHALL GOVERN.
G. CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL CONDUIT, WIRE, SUPPORT SYSTEM, DISCONNECTS, AND OUTLETS TO ALLOW FOR A COMPLETE CODE COMPLIANT KITCHEN INSTALLATION AS INDICATED BY ALL ELECTRICAL AND FOOD SERVICE / KITCHEN DESIGNER'S DRAWINGS AND SPECIFICATIONS UNLESS NOTED OTHERWISE.
H. ALL ELECTRICAL EQUIPMENT LOCATED ON WALLS OF PRODUCTION KITCHEN AREAS SHALL BE A MINIMUM OF 48" AFF UNLESS NOTED OTHERWISE. ALL ELECTRICAL EQUIPMENT LOCATED ABOVE COUNTERS OF KITCHEN AREAS SHALL BE 6" ABOVE COUNTER UNLESS NOTED OTHERWISE. ALL ELECTRICAL EQUIPMENT LOCATED BELOW COUNTERS AND WITHIN CASEWORK OF KITCHEN AREAS SHALL BE 6" BELOW THE TOP OF COUNTERS UNLESS NOTED OTHERWISE.
I. REFER TO KITCHEN DESIGNERS / FOOD SERVICE DRAWINGS FOR ADDITIONAL ROUGH-IN INFORMATION INCLUDING EXACT ROUGH-IN LOCATION AND MOUNTING HEIGHTS OF ELECTRICAL ROUGH-INS AND DEVICES. ANY DIMENSIONS NOTED ON THE KITCHEN DESIGNER'S / FOOD SERVICE DRAWINGS TAKE PRECEDENCE.
J. CONTRACTOR SHALL INSURE THAT ALL CONDUIT ROUTED THROUGH OR NEAR CASEWORK SHALL NOT INTERFERE IN ANY WAY WITH INTENDED USE OR SERVICING OF EQUIPMENT OR COUNTERS.
K. ALL 15A AND 20A, 120V RECEPTACLES IN KITCHENS SHALL BE GFCI PROTECTED IN ACCORDANCE WITH NFPA 70. PROVIDE GFCI BREAKERS FOR ALL CIRCUITS SERVING 15A AND 20A, 120V RECEPTACLES, REGARDLESS IF NOTED ON ASSOCIATED PANEL SCHEDULES OR NOT. WHERE A SHUNT TRIP BREAKER IS REQUIRED, PROVIDE A READILY ACCESSIBLE UL 943-LISTED GFCI DEVICE IN CIRCUIT TO MEET THE REQUIREMENT. MOUNT GFCI DEVICE(S), IF REQUIRED ADJACENT TO RESPECTIVE KITCHEN PANEL.
L. ALL SINGLE PHASE 120 AND 208 VOLT RECEPTACLES, RATED 50A OR LESS AND ALL THREE PHASE 208 VOLT RECEPTACLES, RATED 100A OR LESS, IN KITCHENS SHALL BE PROTECTED BY GFCI BREAKERS, REGARDLESS IF NOTED ON ASSOCIATED PANEL SCHEDULES OR NOT. IF GFCI BREAKER IS NOT AVAILABLE FROM ELECTRICAL EQUIPMENT MANUFACTURER, OR WHERE A SHUNT TRIP BREAKER IS REQUIRED, PROVIDE A READILY ACCESSIBLE UL 943-LISTED GFCI DEVICE IN CIRCUIT TO MEET THE REQUIREMENT. MOUNT GFCI DEVICE(S), IF REQUIRED ADJACENT TO RESPECTIVE KITCHEN PANEL.
M. LOCATIONS OF DISCONNECTS FOR EACH PIECE OF EQUIPMENT MAY NOT BE SHOWN ON PLANS. IF DISCONNECT FOR EQUIPMENT IS NOT SHOWN, CONTRACTOR TO FIELD COORDINATE LOCATION IN ACCORDANCE WITH CODE.
N. CONTRACTOR SHALL LIMIT THE AMOUNT OF EXPOSED CONDUIT. ANY EXPOSED CONDUIT SHALL BE LIQUID TIGHT FLEXIBLE METAL CONDUIT OR RIGID GALVANIZED STEEL CONDUIT.
O. COORDINATE EXACT LOCATION OF ALL REMOTE CONDENSING UNITS WITH HVAC AND FOOD SERVICE DRAWINGS.
P. ALL ENERGIZED EQUIPMENT AND ALL WIRING DEVICES LOCATED UNDER A HOOD SHALL SHUNT TRIP UNPON ACTIVATION OF HOOD FIRE SUPPRESSION SYSTEM.
Q. ALL RECEPTACLES IN KITCHEN PRODUCTION AREAS SHALL BE GRAY WITH STAINLESS STEEL COVER PLATES.
R. FUSED DISCONNECTS SHALL HAVE FUSES SIZED AS LISTED ON EQUIPMENT NAMEPLATE, OTHERWISE MATCH UPSTREAM OVERCURRENT DEVICE IF NO MAXIMUM OVERCURRENT SIZE LISTED ON EQUIPMENT, UNLESS NOTED OTHERWISE.
S. REFER TO FEEDER SCHEDULES FOR FEEDER WIRE SIZES FOR ALL 3 PHASE EQUIPMENT.
T. CONTRACTOR SHALL PROVIDE CONDUIT WITH LONG SWEEP RADIUS ELBOWS FOR BEVERAGE LINES. REFER TO KITCHEN DESIGNER'S / FOOD SERVICE DRAWINGS FOR RADIUS AND ROUTING REQUIREMENTS. REFER TO SPECIFICATION SECTION 260533 FOR BEVERAGE CONDUIT REQUIREMENTS UNLESS NOTED OTHERWISE ON FOOD SERVICE

PANELBOARD: KP1A (DEMO)
(EXISTING)

VOLTAGE : 208Y/120V, 3Ø, 4W
BUS RATING : 225 A
MAIN : 225 A MCB
BRANCH TYPE : NORMAL

CB OPT : ST – SHUNT TRIP, FR – 100% RATED, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER
EO – ELECTRICALLY OPERATED, SS – SOLID STATE
ERMS – ENERGY-REDUCING MAINTENANCE SWITCH
EP – EQUIPMENT GROUND FAULT (30mA)

A.I.C. RATING: 10kA
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

LOAD TYPE	CKT NO	LOAD SERVED	CB	P	CB OPT	A (VA)		B (VA)		C (VA)		CB OPT	P	CB	LOAD SERVED	CKT NO	LOAD TYPE
--	1	**COOK & HOLD**	40	2	--	0	0					--	2	40	**COOK & HOLD**	2	--
	3							0	0			--				4	
--	5	**COOK & HOLD**	40	2	--					0	0	--	2	40	**COOK & HOLD**	6	--
	7					0	0					--				8	
--	9	**COOK & HOLD**	40	2	--			0	0			--	1	20	FIRE PROT. SYSTEM	10	--
	11									0	0	--	1	20	SODA SYSTEM	12	--
--	13	COOLER	20	2	--	0	0					--	1	20	COOLER	14	--
--	15	COOLER						0	0			--	1	20	COOLER	16	--
--	17	COOLER	20	1	--					0	0	--	1	20	COOLER	18	--
--	19	COOLER	20	1	--	0	0					--	1	20	COOLER	20	--
--	21	COOLER	20	1	--			0	--			--	1	--	SPACE	22	--
--	23	REFRIGERATOR	30	1	--					0	0	--	1	20	E31	24	--
--	25	E32	20	2	--	0	0					--	2	20	E31	26	--
	27							0	0							28	
--	29	SPARE	20	1	--					0	0	--	2	30	E32	30	--
--	31	E32	30	2	--	0	0					--	1	20	SPARE	32	--
	33							0	0							34	
--	35	E31	20	1	--					0	0	--	3	20	FOOD PROCESSOR	36	--
--	37	SPACE	--	1	--	0						--				38	
--	39	SPACE	--	1	--			--	--			--	1	--	SPACE	40	--
--	41	SPACE	--	1	--					--	0	--	1	20	SPARE	42	--
		TOTAL LOAD:				0 VA		0 VA		0 VA							
						0 VA		0 VA		0 VA							

PANEL CALCULATIONS : CONNECTED LOAD TYPE LOAD

DEMAND FACTOR LEGEND

ELEVATOR	PER NEC 620.14	MOTOR	100%
HOTEL	PER NEC 220.42	HEAT	100%
KITCHEN	PER NEC 220.56	MISC	100%
RECEPTACLE	PER NEC 220.44	LIGHTING	1.25
RECEPT(HEALTHCARE)	PER NEC 220.42	LARGEST MOTOR	125%
UNIT PANEL	PER NEC 220.84	NON-COINCIDENT...	100%
X-RAY	PER NEC 517.73(2)	EV CHARGE	125%

PANEL TOTALS	
TOTAL CONNECTED LOAD	0 VA
TOTAL DEMAND LOAD	0 VA
TOTAL DEMAND CURRENT	0 A
VOLTAGE	208Y/120V, 3Ø, 4W
SPARE LOAD CAPACITY %	20
PANEL AMPS	0 A

NOTES & SPECIAL OPTIONS:

PANELBOARD: KP1B (DEMO)
(EXISTING)

VOLTAGE : 208Y/120V, 3Ø, 4W
BUS RATING : 225 A
MAIN : 225 A MCB
BRANCH TYPE : NORMAL

CB OPT : ST – SHUNT TRIP, FR – 100% RATED, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER
EO – ELECTRICALLY OPERATED, SS – SOLID STATE
ERMS – ENERGY-REDUCING MAINTENANCE SWITCH
EP – EQUIPMENT GROUND FAULT (30mA)

A.I.C. RATING: 10kA
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

LOAD TYPE	CKT NO	LOAD SERVED	CB	P	CB OPT	A (VA)		B (VA)		C (VA)		CB OPT	P	CB	LOAD SERVED	CKT NO	LOAD TYPE
--	1	**SODA / COUNTERS**	20	1	--	0	0					--	1	20	**SODA / COUNTERS**	2	--
--	3	**SODA SYSTEMS**	20	1	--			0	0			--	1	20	**SODA SYSTEMS**	4	--
--	5	**HEAT LAMPS**	40	1	--					0	0	--	1	40	**HEAT LAMPS**	6	--
--	7	**COOK & HOLD**	20	1	--	0	0					--	2	20	**INDUC. COOKER**	8	--
--	9	**E / 6**	20	1	--			0	0							10	
--	11	**E / 6**	20	1	--					0	0	--	2	20	**INDUC. COOKER**	12	--
--	13	**E / 6**	20	1	--	0	0									14	
--	15	**FRONT COUNTER**	50	2	--			0	0			--	2	50	**FRONT COUNTER**	16	--
	17									0	0					18	
--	19	**GUARDS**	40	1	--	0	0					--	1	40	**GUARDS**	20	--
--	21	**HEAT LAMPS**	20	1	--			0	0			--	1	20	**HEAT LAMPS**	22	--
--	23	**HOLDING CABINET**	20	1	--					0	0	--	1	20	**HOLDING CABINET**	24	--
--	25	SPARE	20	1	--	0	0					--	1	30	GRILL	26	--
--	27	SPARE	20	1	--			0	0			--	1	30	GRILL	28	--
--	29	**COUNTERS**	20	1	--					0	0	--	1	30	GRILL	30	--
--	31	**HOLD. CABINET**	20	1	--	0	0					--	1	20	SPARE	32	--
--	33	**HEAT LAMPS**	20	1	--			0	0			--	1	20	SPARE	34	--
--	35	**FROST TOP**	30	1	--					0	0	--	1	20	SPARE	36	--
--	37	SPARE	20	1	--	0	0					--	1	30	**FROST TOP**	38	--
--	39	SPACE	--	1	--			--	0			--	1	20	SPARE	40	--
--	41	SPACE	--	1	--					--	0	--	1	20	SPARE	42	--
		TOTAL LOAD:				0 VA		0 VA		0 VA							
						0 VA		0 VA		0 VA							

PANEL CALCULATIONS : CONNECTED LOAD TYPE LOAD

DEMAND FACTOR LEGEND

ELEVATOR	PER NEC 620.14	MOTOR	100%
HOTEL	PER NEC 220.42	HEAT	100%
KITCHEN	PER NEC 220.56	MISC	100%
RECEPTACLE	PER NEC 220.44	LIGHTING	1.25
RECEPT(HEALTHCARE)	PER NEC 220.42	LARGEST MOTOR	125%
UNIT PANEL	PER NEC 220.84	NON-COINCIDENT...	100%
X-RAY	PER NEC 517.73(2)	EV CHARGE	125%

PANEL TOTALS	
TOTAL CONNECTED LOAD	0 VA
TOTAL DEMAND LOAD	0 VA
TOTAL DEMAND CURRENT	0 A
VOLTAGE	208Y/120V, 3Ø, 4W
SPARE LOAD CAPACITY %	20
PANEL AMPS	0 A

NOTES & SPECIAL OPTIONS:

PANELBOARD: KP1C (DEMO)
(EXISTING)

VOLTAGE : 208Y/120V, 3Ø, 4W
BUS RATING : 225 A
MAIN : 225 A MCB
BRANCH TYPE : NORMAL

CB OPT : ST – SHUNT TRIP, FR – 100% RATED, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER
EO – ELECTRICALLY OPERATED, SS – SOLID STATE
ERMS – ENERGY-REDUCING MAINTENANCE SWITCH
EP – EQUIPMENT GROUND FAULT (30mA)

A.I.C. RATING: 10kA
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

LOAD TYPE	CKT NO	LOAD SERVED	CB	P	CB OPT	A (VA)		B (VA)		C (VA)		CB OPT	P	CB	LOAD SERVED	CKT NO	LOAD TYPE
--	1	**PREP TABLE**	20	1	--	0	0					--	2	30	**COFFEE MAKER**	2	--
--	3	**CONVENIENCE**	20	1	--			0	0							4	
--	5	**CONVENIENCE**	20	1	--					0	0	--	1	20	**TEA BREWER**	6	--
--	7	**FREEZER**	30	2	--	0	0					--	1	20	**CONVENIENCE**	8	--
	9							0	0			--	1	20	**REFRIGERATOR**	10	--
--	11	**COFFEE MAKER**	30	2	--					0	0	--	2	30	ICE MACHINE	12	--
	13					0	0									14	
--	15	**TEA BREWER**	20	1	--			0	0							16	
--	17	**CONVENIENCE**	20	1	--					0	0	--	1	20	SPARE	18	--
--	19	**REFRIGERATOR**	20	1	--	0	0					--	1	20	SPARE	20	--
--	21	SPARE	20	1	--			0	0			--	1	20	SPARE	22	--
--	23	RECEPTACLE	20	1	--					0	0	--	1	20	**REFRIGERATOR**	24	--
--	25	SPARE	20	1	--	0	0					--	1	20	**HOLDING CABINET**	26	--
--	27	SPARE	20	1	--			0	0			--	1	20	**FIRE PROT.**	28	--
--	29	**CONVENIENCE**	20	1	--					0	0	--	1	20	**ROTISSERIE**	30	--
--	31	FRYER	20	1	--	0	0					--	1	20	**ROTISSERIE**	32	--
--	33	COOK & HOLD	20	1	--			0	0			--	1	20	**FAN**	34	--
--	35	**COUNTERS**	20	1	--					0	0	--	1	20	**HOOD**	36	--
--	37	**HOLDING CABINET**	20	1	--	0	0					--	1	20	SPARE	38	--
--	39	**HEAT LAMP**	20	1	--			0	0			--	1	20	**RECEPTACLE**	40	--
--	41	SPARE	20	1	--					0	0	--	1	20	SPARE	42	--
		TOTAL LOAD:				0 VA		0 VA		0 VA							
						0 VA		0 VA		0 VA							

PANEL CALCULATIONS : CONNECTED LOAD TYPE LOAD

DEMAND FACTOR LEGEND

ELEVATOR	PER NEC 620.14	MOTOR	100%
HOTEL	PER NEC 220.42	HEAT	100%
KITCHEN	PER NEC 220.56	MISC	100%
RECEPTACLE	PER NEC 220.44	LIGHTING	1.25
RECEPT(HEALTHCARE)	PER NEC 220.42	LARGEST MOTOR	125%
UNIT PANEL	PER NEC 220.84	NON-COINCIDENT...	100%
X-RAY	PER NEC 517.73(2)	EV CHARGE	125%

PANEL TOTALS	
TOTAL CONNECTED LOAD	0 VA
TOTAL DEMAND LOAD	0 VA
TOTAL DEMAND CURRENT	0 A
VOLTAGE	208Y/120V, 3Ø, 4W
SPARE LOAD CAPACITY %	20
PANEL AMPS	0 A

NOTES & SPECIAL OPTIONS:

PANELBOARD: KP1D (DEMO)
(EXISTING)

VOLTAGE : 208Y/120V, 3Ø, 4W
BUS RATING : 225 A
MAIN : 225 A MCB
BRANCH TYPE : NORMAL

CB OPT : ST – SHUNT TRIP, FR – 100% RATED, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER
EO – ELECTRICALLY OPERATED, SS – SOLID STATE
ERMS – ENERGY-REDUCING MAINTENANCE SWITCH
EP – EQUIPMENT GROUND FAULT (30mA)

A.I.C. RATING: 10kA
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

LOAD TYPE	CKT NO	LOAD SERVED	CB	P	CB OPT	A (VA)		B (VA)		C (VA)		CB OPT	P	CB	LOAD SERVED	CKT NO	LOAD TYPE
--	1	REFRIGERATOR	20	1	--	0	0					--	1	20	E31	2	--
--	3	E32	30	2	--			0	0			--	1	20	E31	4	--
	5									0	0	--	1	20	E31	6	--
--	7	SPACE	--	1	--	0						--	1	20	HOOD LIGHTS	8	--
--	9	SPACE	--	1	--			--	0			--	1	20	BEER SYSTEM	10	--
--	11	COOK & HOLD	40	2	--					0	0	--	1	20	BEER SYSTEM	12	--
	13					0	0					--	2	30	KITCHEN	14	--
--	15	COOK & HOLD	40	2	--			0	0							16	
	17									0	0	--	1	20	CONVENIENCE	18	--
--	19	CONVENIENCE	20	1	--	0	0									20	
--	21	POT WASH CTLS	20	1	--			0	0			--	2	40	COOK & HOLD	22	--
--	23	TRASH COMPACTOR	20	1	--					0	0	--	2	40	COOK & HOLD	24	--
--	25	**CASHIER**	20	1	--	0	0									26	
--	27	**CASHIER**	20	1	--			0	0			--	1	20	**CASHIER**	28	--
--	29	**CASHIER**	20	1	--					0	0	--	1	20	**CASHIER**	30	--
--	31	FAC	20	1	--	0	0					--	1	20	**CASHIER**	32	--
--	33	SPARE	20	1	--			0	0			--	1	20	SPARE	34	--
--	35	WASHER	20	1	--					0	0	--	1	20	SPARE	36	--
--	37	DRYER	30	2	--	0	0					--	1	20	MONITOR	38	--
	39							0	0			--	1	20	RECEPTACLE	40	--
--	41	SPARE	20	1	--					0	0	--	1	20	SPARE	42	--
		TOTAL LOAD:				0 VA		0 VA		0 VA							
						0 VA		0 VA		0 VA							

PANEL CALCULATIONS : CONNECTED LOAD TYPE LOAD

DEMAND FACTOR LEGEND

ELEVATOR	PER NEC 620.14	MOTOR	100%
HOTEL	PER NEC 220.42	HEAT	100%
KITCHEN	PER NEC 220.56	MISC	100%
RECEPTACLE	PER NEC 220.44	LIGHTING	1.25
RECEPT(HEALTHCARE)	PER NEC 220.42	LARGEST MOTOR	125%
UNIT PANEL	PER NEC 220.84	NON-COINCIDENT...	100%
X-RAY	PER NEC 517.73(2)	EV CHARGE	125%

PANEL TOTALS	
TOTAL CONNECTED LOAD	0 VA
TOTAL DEMAND LOAD	0 VA
TOTAL DEMAND CURRENT	0 A
VOLTAGE	208Y/120V, 3Ø, 4W
SPARE LOAD CAPACITY %	20
PANEL AMPS	0 A

NOTES & SPECIAL OPTIONS:

PANELBOARD: KP1E (DEMO)
(EXISTING)

VOLTAGE : 208Y/120V, 3Ø, 4W
BUS RATING : 225 A
MAIN : 225 A MCB
BRANCH TYPE : NORMAL

CB OPT : ST – SHUNT TRIP, FR – 100% RATED, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER
EO – ELECTRICALLY OPERATED, SS – SOLID STATE
ERMS – ENERGY-REDUCING MAINTENANCE SWITCH
EP – EQUIPMENT GROUND FAULT (30mA)

A.I.C. RATING: 22kA
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

LOAD TYPE	CKT NO	LOAD SERVED	CB	P	CB OPT	A (VA)		B (VA)		C (VA)		CB OPT	P	CB	LOAD SERVED	CKT NO	LOAD TYPE
--	1	**SODA / COUNTERS**	20	1	--	0	0					--	1	20	**SODA / COUNTERS**	2	--
--	3	**SODA SYSTEMS**	20	1	--			0	0			--	1	20	**SODA SYSTEMS**	4	--
--	5	**HEAT LAMPS**	40	1	--					0	0	--	1	40	**HEAT LAMPS**	6	--
	7					0	0									8	
--	9	**INDUC. COOKER**	20	2	--			0	0			--	2	20	INDUC. COOKER	10	--
	11									0	0					12	
--	13	**INDUC. COOKER**	20	2	--	0	0					--	2	20	INDUC. COOKER	14	--
--	15	**FRONT COUNTER**	50	2	--			0	0			--	2	50	**FRONT COUNTER**	16	--
	17									0	0					18	
--	19	**GUARDS**	40	1	--	0	0					--	1	50	**GUARDS**	20	--
--	21	**HEAT LAMPS**	20	1	--			0	0			--	1	20	**HEAT LAMPS**	22	--
--	23	**U.C. REFRIGERATORS**	20	1	--					0	0	--	1	20	**HOLDING CABINET**	24	--
--	25	**HOT DOG CABINET**	20	1	--	0	--					--	1	--	SPACE	26	--
--	27	**FRONT COUNTER**	20	1	--			0	0			--	1	20	**COUNTERS**	28	--
--	29	**COUNTERS**	20	1	--					0	0	--	1	20	**HOLDING CABINET**	30	--
--	31	**HOLDING CABINET**	20	1	--	0	0					--	1	20	**HEAT LAMPS**	32	--
--	33	**HEAT LAMPS**	20	1	--			0	0			--	1	20	**HOT DOG CABINET**	34	--
--	35	**FROST TOP**	30	1	--					0	0	--	1	20	**FRONT COUNTER**	36	--
--	37	REF. TABLE TOP	20	1	--	0	0					--	1	30	**FROST TOP**	38	--
--	39	**E-20**	20	1	--			0	0			--	1	30	FREEZERS	40	--
--	41	**E-20**	20	1	--					0	0	--	1	20	**E-20**	42	--
		TOTAL LOAD:				0 VA		0 VA		0 VA							
						0 VA		0 VA		0 VA							

PANEL CALCULATIONS : CONNECTED LOAD TYPE LOAD

DEMAND FACTOR LEGEND

ELEVATOR	PER NEC 620.14	MOTOR	100%
HOTEL	PER NEC 220.42	HEAT	100%
KITCHEN	PER NEC 220.56	MISC	100%
RECEPTACLE	PER NEC 220.44	LIGHTING	1.25
RECEPT(HEALTHCARE)	PER NEC 220.42	LARGEST MOTOR	125%
UNIT PANEL	PER NEC 220.84	NON-COINCIDENT...	100%
X-RAY	PER NEC 517.73(2)	EV CHARGE	125%

PANEL TOTALS	
TOTAL CONNECTED LOAD	0 VA
TOTAL DEMAND LOAD	0 VA
TOTAL DEMAND CURRENT	0 A
VOLTAGE	208Y/120V, 3Ø, 4W
SPARE LOAD CAPACITY %	20
PANEL AMPS	0 A

NOTES & SPECIAL OPTIONS:

PANELBOARD: KP1F (DEMO)
(EXISTING)

VOLTAGE : 208Y/120V, 3Ø, 4W
BUS RATING : 225 A
MAIN : 225 A MCB
BRANCH TYPE : NORMAL

CB OPT : ST – SHUNT TRIP, FR – 100% RATED, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER
EO – ELECTRICALLY OPERATED, SS – SOLID STATE
ERMS – ENERGY-REDUCING MAINTENANCE SWITCH
EP – EQUIPMENT GROUND FAULT (30mA)

A.I.C. RATING: 22kA
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

LOAD TYPE	CKT NO	LOAD SERVED	CB	P	CB OPT	A (VA)		B (VA)		C (VA)		CB OPT	P	CB	LOAD SERVED	CKT NO	LOAD TYPE
--	1	**HOT WELL**	20	1	--	0	0					--	1	20	**HOT WELL**	2	--
--	3	**HOLDING CABINET**	20	1	--			0	0			--	1	20	**UND. FRIDGE**	4	--
--	5	**UND. FRIDGE**	20	1	--					0	0	--	1	20	**HOT WELL**	6	--
--	7	**HOT WELL**	20	1	--	0	0					--	1	20	**UND. FRIDGE**	8	--
--	9	**HOT WELL**	20	1	--			0	0			--	1	20	**HOOD**	10	--
--	11	**UND. FRIDGE**	20	1	--					0	0	--	1	20	WATER HEATER	12	--
--	13	SPARE	20	1	--	0	0					--	1	20	WATER SOFTENER	14	--
--	15	**HOOD**	20	1	--			0	0			--	1	20	CIRCULATION PUMP	16	--
--	17	**HOT WELL**	20	1	--					0	0	--	1	20	POWER WASH	18	--
--	19	**HOLDING CABINET**	20	1	--	0	0					--	1	20	SPARE	20	--
--	21	FIRE PROT. SYSTEM	20	1	--			0	0			--	2	40	COOK & HOLD	22	--
--	23	COOK & HOLD	40	2	--					0	0					24	
	25					0	0					--	2	40	COOK & HOLD	26	--
--	27	FIRE PROT. SYSTEM	20	1	--			0	0							28	
--	29	WALK IN COOLER	20	1	--					0	0	--	1	20	RECEPTACLE	30	--
--	31	**RECEPTACLE**	20	1	--	0	0					--	1	20	SODA SYSTEM	32	--
--	33	**TIKI TORCH**	20	1	--			0	0			--	1	30	EF-18	34	--
--	35	SPARE	20	1	--					0	0	--	1	30	EF-1	36	--
--	37	SPARE	20	1	--	0	0					--	1	20	SPARE	38	--
--	39	SPARE	20	1	--			0	0			--	1	20	SPARE	40	--
--	41	SPARE	20	1	--					0	0	--	1	20	SPARE	42	--
		TOTAL LOAD:				0 VA		0 VA		0 VA							
						0 VA		0 VA		0 VA							

PANEL CALCULATIONS : CONNECTED LOAD TYPE LOAD

DEMAND FACTOR LEGEND

ELEVATOR	PER NEC 620.14	MOTOR	100%
HOTEL	PER NEC 220.42	HEAT	100%
KITCHEN	PER NEC 220.56	MISC	100%
RECEPTACLE	PER NEC 220.44	LIGHTING	1.25
RECEPT(HEALTHCARE)	PER NEC 220.42	LARGEST MOTOR	125%
UNIT PANEL	PER NEC 220.84	NON-COINCIDENT...	100%
X-RAY	PER NEC 517.73(2)	EV CHARGE	125%

PANEL TOTALS	
TOTAL CONNECTED LOAD	0 VA
TOTAL DEMAND LOAD	0 VA
TOTAL DEMAND CURRENT	0 A
VOLTAGE	208Y/120V, 3Ø, 4W
SPARE LOAD CAPACITY %	20
PANEL AMPS	0 A

NOTES & SPECIAL OPTIONS:

PANELBOARD: KP1S (DEMO)
(EXISTING)

VOLTAGE : 208Y/120V, 3Ø, 4W
BUS RATING : 225 A
MAIN : 225 A MCB
BRANCH TYPE : NORMAL

CB OPT : ST – SHUNT TRIP, FR – 100% RATED, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER
EO – ELECTRICALLY OPERATED, SS – SOLID STATE
ERMS – ENERGY-REDUCING MAINTENANCE SWITCH
EP – EQUIPMENT GROUND FAULT (30mA)

A.I.C. RATING: 10kA
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

LOAD TYPE	CKT NO	LOAD SERVED	CB	P	CB OPT	A (VA)		B (VA)		C (VA)		CB OPT	P	CB	LOAD SERVED	CKT NO	LOAD TYPE
--	1	**SPARE**	20	1	--	0	0					--	1	20	**WARMERS**	2	--
--	3	**HOOD**	20	1	--			0	0			--	1	20	**LTS**	4	--
--	5	**HOOD**	20	1	--					0	0	--	1	20	**LTS**	6	--
--	7	FRYERS	20	1	--	0	0					--	1	20	ROTISSERIE	8	--
--	9	**SMOKER**	20	1	--			0	0			--	1	20	**HOLD CABINET**	10	--
--	11	**SMOKER**	20	1	--					0	0	--	1	20	**HOLD CABINET**	12	--
--	13	**HOOD**	20	1	--	0	0					--	1	20	**HOLD CABINET**	14	--
--	15	STEAMER & KETTLE	20	1	--			0	0			--	1	20	**HOOD**	16	--
--	17	PAN & FRYER	20	1	--					0	0	--	1	20	**HOOD**	18	--
--	19	FRYERS	20	1	--	0	0					--	1	20	**CUSTOM WARMERS**	20	--
--	21	CONVECTION OVEN	20	1	--			0	0			--	2	30	ICE MACHINE	22	--
--	23	CONVECTION OVEN	20	1	--					0	0					24	
--	25	HOOD	20	1	--	0	0					--	1	20	**REF.**	26	--
--	27	**E20**	20	1	--			0	0			--	2	30	ICE MACHINE	28	--
--	29	**TEA BREWER**	20	1	--					0	0					30	
--	31	**E20**	20	1	--	0	0					--	1	20	**REFRIGERATOR**	32	--
--	33	TEA BREWER	20	1	--			0	0			--	1	20	**REC.**	34	--
--	35	**COFFEE MAKERS**	30	2	--					0	0	--	1	20	**HOOD**	36	--
	37					0	0					--	1	20	SPARE	38	--
--	39	**COFFEE MAKERS**	30	2	--			0	0			--	1	20	SPARE	40	--
	41									0	0	--	1	20	SPARE	42	--
		TOTAL LOAD:				0 VA		0 VA		0 VA							
						0 VA		0 VA		0 VA							

PANEL CALCULATIONS : CONNECTED LOAD TYPE LOAD

DEMAND FACTOR LEGEND

ELEVATOR	PER NEC 620.14	MOTOR	100%
HOTEL	PER NEC 220.42	HEAT	100%
KITCHEN	PER NEC 220.56	MISC	100%
RECEPTACLE	PER NEC 220.44	LIGHTING	1.25
RECEPT(HEALTHCARE)	PER NEC 220.42	LARGEST MOTOR	125%
UNIT PANEL	PER NEC 220.84	NON-COINCIDENT...	100%
X-RAY	PER NEC 517.73(2)	EV CHARGE	125%

PANEL TOTALS	

PANELBOARD: LP2A
(EXISTING)

VOLTAGE : 208Y/120V, 3Ø, 4W
BUS RATING : 225 A
MAIN : 225 A MCB
BRANCH TYPE : NORMAL

CB OPT : ST – SHUNT TRIP, FR – 100% RATED, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER
EO – ELECTRICALLY OPERATED, SS – SOLID STATE
ERMS – ENERGY-REDUCING MAINTENANCE SWITCH
EP – EQUIPMENT GROUND FAULT (30mA)

A.I.C. RATING: 22kA
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

LOAD TYPE	CKT NO	LOAD SERVED	CB	P	CB OPT	A (VA)		B (VA)		C (VA)		CB OPT	P	CB	LOAD SERVED	CKT NO	LOAD TYPE
--	1	KITCHEN	20	1	--	0	0					--	1	20	KITCHEN	2	--
--	3	KITCHEN	20	1	--			0	0			--	1	20	KITCHEN	4	--
--	5	KITCHEN	20	1	--					0	0	--	1	20	KITCHEN	6	--
--	7	UTILITY ROOMS	20	1	--	0	0					--	1	20	WATER CANNON	8	--
--	**9**	**SPARE**	**20**	**1**	**--**			**0**	0			--	1	20	WATER CANNON	10	--
LIGHTING	**11**	**INVLA1**	**25**	**1**						**1542**	0	--	1	20	WATER CANNON	12	--
--	13	SPARE	20	1	--	0	0					--	1	20	WATER CANNON	14	--
--	15	CTL TOWER	20	1	--			0	0			--	1	20	AQ. MTNC	16	--
--	17	KIT TOILET	20	1	--					0	0	--	1	20	SPARE	18	--
--	19	KIT TOILET	20	1	--	0	0					--	1	20	JANITOR	20	--
--	21	WATER CANNON	20	1	--			0	0			--	1	20	SPARE	22	--
--	23	WATER CANNON	20	1	--					0	0	--	1	20	SPARE	24	--
--	25	WATER CANNON	20	1	--	0	0					--	1	20	SPARE	26	--
--	27	WATER CANNON	20	1	--			0	0			--	1	20	SPARE	28	--
RECEPTACLE	**29**	**RECPT - KDS**	**20**	**1**	**GF**					**1080**	0	--	1	20	CASHIER	30	--
RECEPTACLE	**31**	**RECPT - KDS**	**20**	**1**	**GF**	**720**	0					--	1	20	HEAT	32	--
--	33	REST. ROOF LTS	20	1	--			0	0			--	1	20	HEAT	34	--
--	35	REST. ROOF LTS	20	1	--					0	0	--	1	20	HEAT	36	--
--	37	REST. ROOF LTS	20	1	--	0	0					--	1	20	HEAT	38	--
--	39	SPARE	20	1	--			0	0			--	1	20	HEAT	40	--
--	41	SPARE	20	1	--					0	0	--	1	20	HEAT	42	--
		TOTAL LOAD:				9520 VA		8800 VA		11422 VA							
						0 VA		0 VA		0 VA							

PANEL CALCULATIONS : LOAD TYPE	CONNECTED LOAD
LIGHTING	1542 VA
RECEPTACLE	1800 VA
EXISTING	26400 VA

DEMAND FACTOR LEGEND

ELEVATOR	PER NEC 620.14	MOTOR	100%
HOTEL	PER NEC 220.42	HEAT	100%
KITCHEN	PER NEC 220.56	MISC	100%
RECEPTACLE	PER NEC 220.44	LIGHTING	1.25
RECEPT(HEALTHCARE)	PER NEC 220.42	LARGEST MOTOR	125%
UNIT PANEL	PER NEC 220.84	NON-COINCIDENT...	100%
X-RAY	PER NEC 517.73(2)	EV CHARGE	125%

PANEL TOTALS	
TOTAL CONNECTED LOAD	29742 VA
TOTAL DEMAND LOAD	30128 VA
TOTAL DEMAND CURRENT	84 A
VOLTAGE	208Y/120V, 3Ø, 4W
SPARE LOAD CAPACITY %	20
PANEL AMPS	100 A

NOTES & SPECIAL OPTIONS:

PANELBOARD: LP2B
(EXISTING)

VOLTAGE : 208Y/120V, 3Ø, 4W
BUS RATING : 225 A
MAIN : 225 A MCB
BRANCH TYPE : NORMAL

CB OPT : ST – SHUNT TRIP, FR – 100% RATED, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER
EO – ELECTRICALLY OPERATED, SS – SOLID STATE
ERMS – ENERGY-REDUCING MAINTENANCE SWITCH
EP – EQUIPMENT GROUND FAULT (30mA)

A.I.C. RATING: 22kA
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

LOAD TYPE	CKT NO	LOAD SERVED	CB	P	CB OPT	A (VA)		B (VA)		C (VA)		CB OPT	P	CB	LOAD SERVED	CKT NO	LOAD TYPE
--	1	LQ RECEPT	20	1	--	0	0					--	1	20	REC.	2	--
--	3	LQ RECEPT	20	1	--			0	0			--	1	20	EF-17	4	--
--	5	RECEPTACLE	20	1	--					0	0	--	1	20	TUNNEL LIGHTS	6	--
--	7	JUNGLE	20	1	--	0	**720**						**1**	**20**	**RECEPTACLE - SCRAMBLE POS**	**8**	**RECEPTACLE**
--	9	JUNGLE JANITOR	20	1	--			0	**1000**				**1**	**20**	**AH-1-C, AH-2-C**	**10**	**MOTORS**
--	11	IRRIG. GIZMO	20	1	--					0	0	--	1	20	EXITS	12	--
--	13	IRRIG. GIZMO	20	1	--	0	0					--	1	20	KIT. EXTERIOR	14	--
--	15	IRRIG. GIZMO	20	1	--			0	0			--	1	20	KIT. EXTERIOR	16	--
--	17	JUNGLE REC.	20	1	--					0	0	--	1	20	STAIR	18	--
--	19	RECEPTACLE	20	1	--	0	0					--	1	20	YACHT REC.	20	--
--	21	DRIPPING BUCKET	20	1	--			0	0			--	1	20	YACHT REC.	22	--
--	23	DRIPPING BUCKET	20	1	--					0	0	--	1	20	YACHT REC.	24	--
--	25	DRIPPING BUCKET	20	1	--	0	0					--	1	20	CARGO DROP	26	--
--	27	DRIPPING BUCKET	20	1	--			0	0			--	1	20	YACHT HEAT	28	--
--	29	YACHT REC.	20	1	--					0	0	--	1	20	FAN MOTOR	30	--
--	31	TIKI TORCH	20	1	--	0	0					--	1	20	FAN MOTOR	32	--
RECEPTACLE	**33**	**RECEPTACLE - SODA FOUNTAINS**	**20**	**1**	**GF**			**720**	0			--	1	20	FAN. REC.	34	--
RECEPTACLE	**35**	**RECEPTACLE - SCRAMBLE MON.**	**20**	**1**						**720**	0	--	1	20	YACHT REC.	36	--
RECEPTACLE	**37**	**RECEPTACLE - SCRAMBLE MON.**	**20**	**1**		**720**	0					--	1	20	LQ. AQU.	38	--
RECEPTACLE	**39**	**RECEPTACLE - ROCKWORK**	**20**	**1**				**900**	0			--	1	20	LQ. AQU.	40	--
--	41	TRAWLER	20	1	--					0	0	--	1	20	SPARE	42	--
		TOTAL LOAD:				11174 VA		12354 VA		10454 VA							
						0 VA		0 VA		0 VA							

PANEL CALCULATIONS : LOAD TYPE	CONNECTED LOAD
RECEPTACLE	3780 VA
MOTORS	1000 VA
EXISTING	29202 VA

DEMAND FACTOR LEGEND

ELEVATOR	PER NEC 620.14	MOTOR	100%
HOTEL	PER NEC 220.42	HEAT	100%
KITCHEN	PER NEC 220.56	MISC	100%
RECEPTACLE	PER NEC 220.44	LIGHTING	1.25
RECEPT(HEALTHCARE)	PER NEC 220.42	LARGEST MOTOR	125%
UNIT PANEL	PER NEC 220.84	NON-COINCIDENT...	100%
X-RAY	PER NEC 517.73(2)	EV CHARGE	125%

PANEL TOTALS	
TOTAL CONNECTED LOAD	33982 VA
TOTAL DEMAND LOAD	34107 VA
TOTAL DEMAND CURRENT	95 A
VOLTAGE	208Y/120V, 3Ø, 4W
SPARE LOAD CAPACITY %	0
PANEL AMPS	95 A

NOTES & SPECIAL OPTIONS:

PANELBOARD: LP2C
(EXISTING)

VOLTAGE : 208Y/120V, 3Ø, 4W
BUS RATING : 225 A
MAIN : MLO
BRANCH TYPE : NORMAL

CB OPT : ST – SHUNT TRIP, FR – 100% RATED, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER
EO – ELECTRICALLY OPERATED, SS – SOLID STATE
ERMS – ENERGY-REDUCING MAINTENANCE SWITCH
EP – EQUIPMENT GROUND FAULT (30mA)

A.I.C. RATING: 22kA
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

LOAD TYPE	CKT NO	LOAD SERVED	CB	P	CB OPT	A (VA)		B (VA)		C (VA)		CB OPT	P	CB	LOAD SERVED	CKT NO	LOAD TYPE
--	1	SPARE	20	1	--	0	0					--	1	20	REC.	2	--
--	3	TRAWL HEAT	20	1	--			0	0			--	1	20	TRAWL REC.	4	--
--	5	SPARE	20	1	--					0	0	--	1	20	TRAWL REC.	6	--
--	7	TRAWL REC.	20	1	--	0	0					--	2	20	AQUARIUM	8	--
--	9	TIKI TORCH	20	1	--			0	0							10	--
--	11	TIKI TORCH	20	1	--					0	0	--	1	20	SPARE	12	--
--	13	TIKI TORCH	20	1	--	0	0					--	1	20	TIKI TORCH	14	--
--	15	RIDE CTLS	20	1	--			0	0			--	1	20	TIKI TORCH	16	--
--	17	SUB AQUARIUM	20	1	--					0	0	--	1	20	TIKI TORCH	18	--
--	19	SPARE	20	1	--	0	0					--	1	20	TUNNEL PROPELLER	20	--
--	21	AQUARIUM	20	1	--			0	0			--	1	20	TUNNEL FOG	22	--
--	23	TRAWL RECEPT.	20	1	--					0	0	--	1	20	TUNNEL THEME	24	--
--	25	ILLUM. REC.	20	1	--	0	0					--	1	20	TUNNEL THEME	26	--
--	27	ILLUM. REC.	20	1	--			0	0			--	1	20	TUNNEL REC.	28	--
--	29	ILLUM. REC.	20	1	--					0	0	--	1	20	TUNNEL REC.	30	--
--	31	ILLUM. REC.	20	1	--	0	0					--	1	20	TUNNEL REC.	32	--
--	33	ILLUM. REC.	20	1	--			0	0			--	1	20	TUNNEL REC.	34	--
--	35	PAY PHONE	20	1	--					0	0	--	1	20	TUNNEL REC.	36	--
--	37	PAY PHONE	20	1	--	0	0					--	1	20	SPARE	38	--
--	39	SPARE	20	1	--			0	0			--	1	20	SPARE	40	--
--	41	SPARE	20	1	--					0	0	--	1	20	SPARE	42	--
		TOTAL LOAD:				9739 VA		9739 VA		9739 VA							
						0 VA		0 VA		0 VA							

PANEL CALCULATIONS : LOAD TYPE	CONNECTED LOAD
EXISTING	29216 VA

DEMAND FACTOR LEGEND

ELEVATOR	PER NEC 620.14	MOTOR	100%
HOTEL	PER NEC 220.42	HEAT	100%
KITCHEN	PER NEC 220.56	MISC	100%
RECEPTACLE	PER NEC 220.44	LIGHTING	1.25
RECEPT(HEALTHCARE)	PER NEC 220.42	LARGEST MOTOR	125%
UNIT PANEL	PER NEC 220.84	NON-COINCIDENT...	100%
X-RAY	PER NEC 517.73(2)	EV CHARGE	125%

PANEL TOTALS	
TOTAL CONNECTED LOAD	29216 VA
TOTAL DEMAND LOAD	29216 VA
TOTAL DEMAND CURRENT	81 A
VOLTAGE	208Y/120V, 3Ø, 4W
SPARE LOAD CAPACITY %	0
PANEL AMPS	91 A

NOTES & SPECIAL OPTIONS:

PANELBOARD: LP2D
(EXISTING)

VOLTAGE : 208Y/120V, 3Ø, 4W
BUS RATING : 225 A
MAIN : 225 A MCB
BRANCH TYPE : NORMAL

CB OPT : ST – SHUNT TRIP, FR – 100% RATED, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER
EO – ELECTRICALLY OPERATED, SS – SOLID STATE
ERMS – ENERGY-REDUCING MAINTENANCE SWITCH
EP – EQUIPMENT GROUND FAULT (30mA)

A.I.C. RATING: 22kA
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

LOAD TYPE	CKT NO	LOAD SERVED	CB	P	CB OPT	A (VA)		B (VA)		C (VA)		CB OPT	P	CB	LOAD SERVED	CKT NO	LOAD TYPE
--	1	EF-6	20	1	--	0	0					--	1	30	EF-11	2	--
--	3	EF-7	40	1	--			0	0			--	1	20	EF-12	4	--
--	5	EF-8	20	1	--					0	0	--	1	30	EF-13	6	--
--	7	EF-9	20	1	--	0	0					--	1	20	EF-14	8	--
--	9	EF-10	20	1	--			0	0			--	2	20	CU-6	10	--
--	11	RECEPTACLE	20	1	--					0	0					12	--
--	13	RECEPTACLE	20	1	--	0	0					--	1	20	AIR CURTAINS	14	--
--	15	RECEPTACLE	20	1	--			0	0			--	1	20	AIR CURTAINS	16	--
--	17	SPARE	20	1	--					0	0	--	1	20	SPARE	18	--
--	19	SPARE	20	1	--	0	0					--	1	20	AIR CURTAINS	20	--
--	21	SPARE	20	1	--			0	0			--	1	20	AIR CURTAINS	22	--
--	23	LAUNDRY AQUARIUM	20	1	--					0	0	--	1	20	AIR CURTAINS	24	--
--	25	LAUNDRY AQUARIUM	20	1	--	0	0					--	1	20	AIR CURTAINS	26	--
--	27	RECEPTACLE	20	1	--			0	0			--	1	20	AIR CURTAINS	28	--
--	29	SPARE	20	1	--					0	0	--	1	30	EF-2	30	--
--	31	SPARE	20	1	--	0	0					--	1	30	EF-3	32	--
--	33	CONTROL	20	1	--			0	0			--	1	30	EF-4	34	--
--	35	CONTROL	20	1	--					0	0	--	1	30	EF-5	36	--
--	37	CONTROL	20	1	--	0	0					--	1	20	REC.	38	--
--	39	CONTROL	20	1	--			0	0			--	1	20	SPARE	40	--
--	41	SPARE	20	1	--					0	0	--	1	20	BUG REC.	42	--
		TOTAL LOAD:				11771 VA		11971 VA		10419 VA							
						0 VA		0 VA		0 VA							

PANEL CALCULATIONS : LOAD TYPE	CONNECTED LOAD
EXISTING	34161 VA

DEMAND FACTOR LEGEND

ELEVATOR	PER NEC 620.14	MOTOR	100%
HOTEL	PER NEC 220.42	HEAT	100%
KITCHEN	PER NEC 220.56	MISC	100%
RECEPTACLE	PER NEC 220.44	LIGHTING	1.25
RECEPT(HEALTHCARE)	PER NEC 220.42	LARGEST MOTOR	125%
UNIT PANEL	PER NEC 220.84	NON-COINCIDENT...	100%
X-RAY	PER NEC 517.73(2)	EV CHARGE	125%

PANEL TOTALS	
TOTAL CONNECTED LOAD	34161 VA
TOTAL DEMAND LOAD	34161 VA
TOTAL DEMAND CURRENT	95 A
VOLTAGE	208Y/120V, 3Ø, 4W
SPARE LOAD CAPACITY %	20
PANEL AMPS	114 A

NOTES & SPECIAL OPTIONS:

PANELBOARD: KP1E
(EXISTING)

VOLTAGE : 208Y/120V, 3Ø, 4W
BUS RATING : 225 A MCB
MAIN : 225 A MCB
BRANCH TYPE : NORMAL

CB OPT : ST – SHUNT TRIP, FR – 100% RATED, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER
EO – ELECTRICALLY OPERATED, SS – SOLID STATE
ERMS – ENERGY-REDUCING MAINTENANCE SWITCH
EP – EQUIPMENT GROUND FAULT (30mA)

A.I.C. RATING: 22kA
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

LOAD TYPE	CKT NO	LOAD SERVED	CB	P	CB OPT	A (VA)		B (VA)		C (VA)		CB OPT	P	CB	LOAD SERVED	CKT NO	LOAD TYPE
	1					**10808**	0					--	**1**	**20**	**SPARE**	**2**	**--**
KITCHEN	**3**	**5 - ASSEMBLY LOAD CENTER**	**125**	**3**				**10808**	0			--	**1**	**20**	**SPARE**	**4**	**--**
	5									**10808**	0	--	**1**	**40**	**SPARE**	**6**	**--**
KITCHEN	**7**	**15.1 - HEAT LAMP UNITS**	**20**	**1**		**1920**	0									8	--
	9							**10568**	0			--	2	20	INDUC. COOKER	10	--
KITCHEN	**11**	**32 - ASSMEBLY LOAD CENTER**	**125**	**3**						**10568**	0					12	--
	13					**10568**	0					--	2	20	INDUC. COOKER	14	--
	15							**7325**	**0**							16	
KITCHEN	**17**	**49 - ASSEMBLY LOAD CENTER**	**100**	**3**						**7325**	**0**	--	**2**	**50**	**SPARE**	**18**	**--**
	19					**7325**	**0**					--	**1**	**50**	**SPARE**	**20**	**--**
	21							**3848**	**0**			--	**1**	**20**	**SPARE**	**22**	**--**
KITCHEN	**23**	**6C - PIZZA OVENS**	**50**	**2**						**3848**	**0**	--	**1**	**20**	**SPARE**	**24**	**--**
	25					**3848**	--					--	1	--	SPACE	26	--
KITCHEN	**27**	**6D - PIZZA OVENS**	**50**	**2**				**3848**	**0**			--	**1**	**20**	**SPARE**	**28**	**--**
KITCHEN	**29**	**45 - ASSEMBLY CONV. RECEPT.**	**20**	**1**						**720**	**0**	--	**1**	**20**	**SPARE**	**30**	**--**
KITCHEN	**31**	**47 - ROLL THRU REFRIGERATOR**	**20**	**1**		**1608**	**0**					--	**1**	**20**	**SPARE**	**32**	**--**
KITCHEN	**33**	**59 - SODA SYSTEM**	**20**	**1**				**720**	**0**			--	**1**	**20**	**SPARE**	**34**	**--**
--	**35**	**SPARE**	**30**	**1**	**--**					**0**	**0**	--	**1**	**20**	**SPARE**	**36**	**--**
KITCHEN	**37**	**27 - REFRIGERATED PREP TABLE**	**20**	**1**	**ST**	**1128**	**0**					--	**1**	**30**	**SPARE**	**38**	**--**
--	**39**	**SPARE**	**20**	**1**	**--**			**0**	**1788**				**1**	**20**	**25.1 - FREEZER**	**40**	**KITCHEN**
--	**41**	**SPARE**	**20**	**1**	**--**					**0**	**0**	--	**1**	**20**	**SPARE**	**42**	**--**
		TOTAL LOAD:				38872 VA		40572 VA		34936 VA							
						0 VA		0 VA		0 VA							

PANEL CALCULATIONS : LOAD TYPE	CONNECTED LOAD
KITCHEN	109380 VA
EXISTING	5001 VA

DEMAND FACTOR LEGEND

ELEVATOR	PER NEC 620.14	MOTOR	100%
HOTEL	PER NEC 220.42	HEAT	100%
KITCHEN	PER NEC 220.56	MISC	100%
RECEPTACLE	PER NEC 220.44	LIGHTING	1.25
RECEPT(HEALTHCARE)	PER NEC 220.42	LARGEST MOTOR	125%
UNIT PANEL	PER NEC 220.84	NON-COINCIDENT...	100%
X-RAY	PER NEC 517.73(2)	EV CHARGE	125%

PANEL TOTALS	
TOTAL CONNECTED LOAD	114381 VA
TOTAL DEMAND LOAD	76058 VA
TOTAL DEMAND CURRENT	211 A
VOLTAGE	208Y/120V, 3Ø, 4W
SPARE LOAD CAPACITY %	5
PANEL AMPS	222 A

NOTES & SPECIAL OPTIONS:

PANELBOARD: KP1F
(EXISTING)

VOLTAGE : 208Y/120V, 3Ø, 4W
BUS RATING : 225 A
MAIN : 225 A MCB
BRANCH TYPE : NORMAL

CB OPT : ST – SHUNT TRIP, FR – 100% RATED, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER
EO – ELECTRICALLY OPERATED, SS – SOLID STATE
ERMS – ENERGY-REDUCING MAINTENANCE SWITCH
EP – EQUIPMENT GROUND FAULT (30mA)

A.I.C. RATING: 22kA
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

LOAD TYPE	CKT NO	LOAD SERVED	CB	P	CB OPT	A (VA)		B (VA)		C (VA)		CB OPT	P	CB	LOAD SERVED	CKT NO	LOAD TYPE
--	**1**	**SPARE**	**20**	**1**	**--**	**0**	**0**					**--**	**1**	**20**	**SPARE**	**2**	**--**
--	**3**	**SPARE**	**20**	**1**	**--**			**0**	**0**			**--**	**1**	**20**	**SPARE**	**4**	**--**
--	**5**	**SPARE**	**20**	**1**	**--**					**0**	**0**	**--**	**1**	**20**	**SPARE**	**6**	**--**
--	**7**	**SPARE**	**20**	**1**	**--**	**0**	**0**					**--**	**1**	**20**	**SPARE**	**8**	**--**
--	**9**	**SPARE**	**20**	**1**	**--**			**0**	**0**			**--**	**1**	**20**	**SPARE**	**10**	**--**
--	**11**	**SPARE**	**20**	**1**	**--**					**0**	**0**	**--**	**1**	**20**	**WATER HEATER**	**12**	**--**
--	13	SPARE	20	1	--	0	0					--	1	20	WATER SOFTENER	14	--
--	**15**	**SPARE**	**20**	**1**	**--**			**0**	0			**--**	**1**	**20**	**CIRCULATION PUMP**	16	--
--	**17**	**SPARE**	**20**	**1**	**--**					**0**	0	**--**	**1**	**20**	**POWER WASH**	18	--
--	**19**	**SPARE**	**20**	**1**	**--**	**0**	0					**--**	**1**	20	SPARE	20	--
--	21	FIRE PROT. SYSTEM	20	1	--			0	0			--	2	40	COOK AND HOLD	22	--
--	23	COOK AND HOLD	40	2	--					0	0					24	
	25					0	0					--	2	40	COOK AND HOLD	26	--
--	27	FIRE PROT. SYSTEM	20	1	--			0	0							28	
--	29	WALK IN COOLER	20	1	--					0	0	--	1	20	RECEPTACLE	30	--
--	**31**	**SPARE**	**20**	**1**	**--**	**0**	0					--	1	20	SODA SYSTEM	32	--
--	**33**	**SPARE**	**20**	**1**	**--**			**0**	0			--	1	30	EF-18	34	--
--	35	SPARE	20	1	--					0	0	--	1	30	EF-1	36	--
--	37	SPARE	20	1	--	0	0					--	1	20	SPARE	38	--
--	39	SPARE	20	1	--			0	0			--	1	20	SPARE	40	--
--	41	SPARE	20	1	--					0	0	--	1	20	SPARE	42	--
		TOTAL LOAD:				10992 VA		10992 VA		10992 VA							
						0 VA		0 VA		0 VA							

PANEL CALCULATIONS : LOAD TYPE	CONNECTED LOAD
EXISTING	32977 VA

DEMAND FACTOR LEGEND

ELEVATOR	PER NEC 620.14	MOTOR	100%
HOTEL	PER NEC 220.42	HEAT	100%
KITCHEN	PER NEC 220.56	MISC	100%
RECEPTACLE	PER NEC 220.44	LIGHTING	1.25
RECEPT(HEALTHCARE)	PER NEC 220.42	LARGEST MOTOR	125%
UNIT PANEL	PER NEC 220.84	NON-COINCIDENT...	100%
X-RAY	PER NEC 517.73(2)	EV CHARGE	125%

PANEL TOTALS	
TOTAL CONNECTED LOAD	32977 VA
TOTAL DEMAND LOAD	32977 VA
TOTAL DEMAND CURRENT	92 A
VOLTAGE	208Y/120V, 3Ø, 4W
SPARE LOAD CAPACITY %	20
PANEL AMPS	110 A

NOTES & SPECIAL OPTIONS:

PANELBOARD: HP1A
(EXISTING)

VOLTAGE : 480Y/277V, 3Ø, 4W
BUS RATING : 250 A
MAIN : 225 A MCB
BRANCH TYPE : NORMAL

CB OPT : ST – SHUNT TRIP, FR – 100% RATED, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER
EO – ELECTRICALLY OPERATED, SS – SOLID STATE
ERMS – ENERGY-REDUCING MAINTENANCE SWITCH
EP – EQUIPMENT GROUND FAULT (30mA)...

A.I.C. RATING: 35kA
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

LOAD TYPE	CKT NO	LOAD SERVED	CB	P	CB OPT	A (VA)		B (VA)		C (VA)		CB OPT	P	CB	LOAD SERVED	CKT NO	LOAD TYPE
	1					0	0									2	
--	3	AHU-1	30	3	--			0	0			--	3	30	AHU-3	4	--
	5									0	0					6	
	7					0	0									8	
--	9	AHU-2	40	3	--			0	0			--	3	20	MAU-3	10	--
	11									0	0					12	
	13					0	0									14	
--	15	MAU-1	20	3	--			0	0			--	3	20	MAU-4	16	--
	17									0	0					18	
	19					0	0									20	
--	21	MAU-2	20	3	--			0	0			--	3	30	MAU-5	22	--
	23									0	0					24	
	25					0	0									26	
--	27	P-1	20	3	--			0	0			--	3	30	MAU-6	28	--
	29									0	0					30	
--	31	SPARE	20	1	--	0	0					--	1	20	SPARE	32	--
--	33	SPARE	20	1	--			0	0			--	1	20	SPARE	34	--
--	35	SPARE	20

PANELBOARD: KP1B (EXISTING)

VOLTAGE : 208Y/120V, 3Ø, 4W
BUS RATING : 225 A
MAIN : 225 A MCB
BRANCH TYPE : NORMAL

CB OPT : ST – SHUNT TRIP, FR – 100% RATED, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER
EO – ELECTRICALLY OPERATED, SS – SOLID STATE
ERMS – ENERGY-REDUCING MAINTENANCE SWITCH
EP – EQUIPMENT GROUND FAULT (30mA)

A.I.C. RATING: 10kA
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

LOAD TYPE	CKT NO	LOAD SERVED	CB	P	CB OPT	A (VA)		B (VA)		C (VA)		CB OPT	P	CB	LOAD SERVED	CKT NO	LOAD TYPE
--	1	SPARE	20	1	--	0	3843									2	
--	3	SPARE	20	1	--			0	3843			ST	3	50	20A - DOUBLE SIDED GRILL	4	KITCHEN
--	5	SPARE	20	1	--					0	3843					6	
KITCHEN	7	2.3 - BEVERAGE COOLER	20	1	GF	1020	3843									8	
KITCHEN	9	2.4 - BEVERAGE COOLER	20	1	GF			1020	3843			ST	3	50	20B - DOUBLE SIDED GRILL	10	KITCHEN
KITCHEN	11	3.2 - REFRIGERATOR	20	1	GF					888	3843					12	
KITCHEN	13	4.4 - HOT HOLDING CABINETS	20	1	GF	1920	360					GF	1	20	39.1 - U.C. REFRIGERATOR	14	KITCHEN
KITCHEN	15	4.5 - HOT HOLDING CABINETS	20	1	GF			1920	360			GF	1	20	39.2 - U.C. REFRIGERATOR	16	KITCHEN
KITCHEN	17	4.6 - HOT HOLDING CABINETS	20	1	GF					1920	360	GF	1	20	39.3 - U.C. REFRIGERATOR	18	KITCHEN
KITCHEN	19	15.2 - HEAT LAMP UNIT	20	1		1920	360					GF	1	20	39.4 - U.C. REFRIGERATOR	20	KITCHEN
--	21	SPARE	20	1	--			0	0			--	1	20	SPARE	22	--
--	23	SPARE	20	1	--					0	0	--	1	20	SPARE	24	--
--	25	SPARE	20	1	--	0	0					--	1	20	GRILL	26	--
--	27	SPARE	20	1	--			0	0			--	1	20	GRILL	28	--
--	29	SPARE	20	1	--					0	0	--	1	20	GRILL	30	--
--	31	SPARE	20	1	--	0	0					--	1	20	GRILL	32	--
--	33	SPARE	20	1	--			0	0			--	1	20	SPARE	34	--
--	35	SPARE	30	1	--					0	0	--	1	20	SPARE	36	--
--	37	SPARE	20	1	--	0	0					--	1	20	SPARE	38	--
--	39	SPACE	--	1	--			--	0			--	1	20	SPARE	40	--
--	41	SPACE	--	1	--					--	0	--	1	20	SPARE	42	--
		TOTAL LOAD:				17106 VA		12906 VA		12774 VA							
						0 VA		0 VA		0 VA							

PANEL CALCULATIONS : LOAD TYPE	CONNECTED LOAD
KITCHEN	35105 VA
EXISTING	7680 VA

DEMAND FACTOR LEGEND					
ELEVATOR	PER NEC 620.14	MOTOR	100%	PANEL TOTALS	
HOTEL	PER NEC 220.42	HEAT	100%	TOTAL CONNECTED LOAD	42785 VA
KITCHEN	PER NEC 220.56	MISC	100%	TOTAL DEMAND LOAD	30498 VA
RECEPTACLE	PER NEC 220.44	LIGHTING	1.25	TOTAL DEMAND CURRENT	85 A
RECEPT.(HEALTHCARE)	PER NEC 220.42	LARGEST MOTOR	125%	VOLTAGE	208Y/120V, 3Ø, 4W
UNIT PANEL	PER NEC 220.84	NON-COINCIDENT...	100%	SPARE LOAD CAPACITY %	0
X-RAY	PER NEC 517.73(2)	EV CHARGE	125%	PANEL AMPS	85 A

NOTES & SPECIAL OPTIONS:

1. SHUNT TRIP BREAKERS SHALL TRIP UPON ACTIVATION OF THE RESPECTIVE HOOD FIRE SUPPRESSION SYSTEM.

PANELBOARD: KP1C (EXISTING)

VOLTAGE : 208Y/120V, 3Ø, 4W
BUS RATING : 225 A
MAIN : 225 A MCB
BRANCH TYPE : NORMAL

CB OPT : ST – SHUNT TRIP, FR – 100% RATED, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER
EO – ELECTRICALLY OPERATED, SS – SOLID STATE
ERMS – ENERGY-REDUCING MAINTENANCE SWITCH
EP – EQUIPMENT GROUND FAULT (30mA)

A.I.C. RATING: 10kA
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

LOAD TYPE	CKT NO	LOAD SERVED	CB	P	CB OPT	A (VA)		B (VA)		C (VA)		CB OPT	P	CB	LOAD SERVED	CKT NO	LOAD TYPE
KITCHEN	1	4.7 - HOT HOLDING CABINETS	20	1	GF	1920	0					--	2	30	SPARE	2	--
KITCHEN	3	4.8 - HOT HOLDING CABINET	20	1	GF			1920	0							4	
KITCHEN	5	25.2 - FREEZER	20	1	GF					1788	1800		1	20	17.5 - FROZEN DRINK MACHINE	6	KITCHEN
KITCHEN	7	31.2 - REFRIGERATOR	20	1	GF	588	1800						1	20	17.6 - FROZEN DRINK MACHINE	8	KITCHEN
KITCHEN	9	51 - PASS THRU REFRIGERATOR	20	1	GF			888	0			--	1	20	SPARE	10	--
KITCHEN	11	39.5 - U.C. REFRIGERATOR	20	1	GF					360	2600					12	
KITCHEN	13	39.6 - U.C. REFRIGERATOR	20	1	GF	360	2600						2	30	30.3 - ICE MACHINE	14	KITCHEN
KITCHEN	15	39.7 - U.C. REFRIGERATOR	20	1	GF			360	2600							16	
KITCHEN	17	54A - HOOD W/ FP SYSTEM	20	1						1800	2600		2	30	30.4 - ICE MACHINE	18	KITCHEN
KITCHEN	19	54B - HOOD W/ FP SYSTEM	20	1		1920	0					--	1	20	SPARE	20	--
--	21	SPARE	20	1	--			0	0			--	1	20	SPARE	22	--
--	23	RECEPTACLE	20	1	--					0	240	GF	1	20	63.1 - ICE AND SODA UNIT	24	KITCHEN
--	25	SPARE	20	1	--	0	240					GF	1	20	63.2 - ICE AND SODA UNIT	26	KITCHEN
--	27	SPARE	20	1	--			0	240			GF	1	20	63.3 - ICE AND SODA UNIT	28	KITCHEN
--	29	SPARE	20	1	--					0	240		1	20	63.3 - ICE AND SODA UNIT	30	KITCHEN
--	31	FRYER	20	1	--	0	1440					GF	1	20	64.1 - ICE MAKER	32	KITCHEN
--	33	COOK & HOLD	20	1	--			0	1440			GF	1	20	64.2 - ICE MAKER	34	KITCHEN
--	35	SPARE	20	1	--					0	1440	GF	1	20	64.3 - ICE MAKER	36	KITCHEN
--	37	SPARE	20	1	--	0	1440						1	20	64.4 - ICE MAKER	38	KITCHEN
--	39	SPARE	20	1	--			0	0			--	1	20	SPARE	40	--
--	41	SPARE	20	1	--					0	0	--	1	20	SPARE	42	--
		TOTAL LOAD:				13308 VA		8548 VA		13368 VA							
						0 VA		0 VA		0 VA							

PANEL CALCULATIONS : LOAD TYPE	CONNECTED LOAD
KITCHEN	32624 VA
EXISTING	2600 VA

DEMAND FACTOR LEGEND					
ELEVATOR	PER NEC 620.14	MOTOR	100%	PANEL TOTALS	
HOTEL	PER NEC 220.42	HEAT	100%	TOTAL CONNECTED LOAD	35224 VA
KITCHEN	PER NEC 220.56	MISC	100%	TOTAL DEMAND LOAD	23806 VA
RECEPTACLE	PER NEC 220.44	LIGHTING	1.25	TOTAL DEMAND CURRENT	66 A
RECEPT.(HEALTHCARE)	PER NEC 220.42	LARGEST MOTOR	125%	VOLTAGE	208Y/120V, 3Ø, 4W
UNIT PANEL	PER NEC 220.84	NON-COINCIDENT...	100%	SPARE LOAD CAPACITY %	20
X-RAY	PER NEC 517.73(2)	EV CHARGE	125%	PANEL AMPS	79 A

NOTES & SPECIAL OPTIONS:

PANELBOARD: KP1D (EXISTING)

VOLTAGE : 208Y/120V, 3Ø, 4W
BUS RATING : 225 A
MAIN : 225 A MCB
BRANCH TYPE : NORMAL

CB OPT : ST – SHUNT TRIP, FR – 100% RATED, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER
EO – ELECTRICALLY OPERATED, SS – SOLID STATE
ERMS – ENERGY-REDUCING MAINTENANCE SWITCH
EP – EQUIPMENT GROUND FAULT (30mA)

A.I.C. RATING: 10kA
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

LOAD TYPE	CKT NO	LOAD SERVED	CB	P	CB OPT	A (VA)		B (VA)		C (VA)		CB OPT	P	CB	LOAD SERVED	CKT NO	LOAD TYPE
--	1	REFRIGERATOR	20	1	--	0	0					--	1	20	E31	2	--
--	3	E32	30	2	--			0	0			--	1	20	E31	4	--
--	5									0	0	--	1	20	E31	6	--
--	7	SPACE	--	1	--	--	0					--	1	20	HOOD LIGHTS	8	--
--	9	SPACE	--	1	--			--	0			--	1	20	BEER SYSTEM	10	--
--	11	COOK & HOLD	40	2	--					0	0	--	1	20	BEER SYSTEM	12	--
--	13					0	0					--	2	30	KITCHEN	14	--
--	15	COOK & HOLD	40	2	--			0	0							16	
--	17									0	0	--	1	20	CONVENIENCE	18	--
--	19	CONVENIENCE	20	1	--	0	0					--	2	40	COOK & HOLD	20	--
--	21	POT WASH CTLS	20	1	--			0	0							22	
--	23	TRASH COMPACTOR	20	1	--					0	0					24	
--	25	SPARE	20	1	--	0	0					--	2	40	COOK & HOLD	26	--
--	27	SPARE	20	1	--			0	0			--	1	20	SPARE	28	--
--	29	SPARE	20	1	--					0	0	--	1	20	SPARE	30	--
--	31	FAC	20	1	--	0	0					--	1	20	SPARE	32	--
--	33	SPARE	20	1	--			0	0			--	1	20	SPARE	34	--
--	35	WASHER	20	1	--					0	0	--	1	20	SPARE	36	--
--	37	DRYER	30	2	--	0	0					--	1	20	MONITOR	38	--
--	39							0	0			--	1	20	RECEPTACLE	40	--
--	41	SPARE	20	1	--					0	0	--	1	20	SPARE	42	--
		TOTAL LOAD:				13880 VA		13880 VA		13880 VA							
						0 VA		0 VA		0 VA							

PANEL CALCULATIONS : LOAD TYPE	CONNECTED LOAD
EXISTING	41640 VA

DEMAND FACTOR LEGEND					
ELEVATOR	PER NEC 620.14	MOTOR	100%	PANEL TOTALS	
HOTEL	PER NEC 220.42	HEAT	100%	TOTAL CONNECTED LOAD	41640 VA
KITCHEN	PER NEC 220.56	MISC	100%	TOTAL DEMAND LOAD	41640 VA
RECEPTACLE	PER NEC 220.44	LIGHTING	1.25	TOTAL DEMAND CURRENT	116 A
RECEPT.(HEALTHCARE)	PER NEC 220.42	LARGEST MOTOR	125%	VOLTAGE	208Y/120V, 3Ø, 4W
UNIT PANEL	PER NEC 220.84	NON-COINCIDENT...	100%	SPARE LOAD CAPACITY %	0
X-RAY	PER NEC 517.73(2)	EV CHARGE	125%	PANEL AMPS	116 A

NOTES & SPECIAL OPTIONS:

PANELBOARD: KP1S (EXISTING)

VOLTAGE : 208Y/120V, 3Ø, 4W
BUS RATING : 225 A
MAIN : 225 A MCB
BRANCH TYPE : NORMAL

CB OPT : ST – SHUNT TRIP, FR – 100% RATED, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER
EO – ELECTRICALLY OPERATED, SS – SOLID STATE
ERMS – ENERGY-REDUCING MAINTENANCE SWITCH
EP – EQUIPMENT GROUND FAULT (30mA)

A.I.C. RATING: 10kA
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

LOAD TYPE	CKT NO	LOAD SERVED	CB	P	CB OPT	A (VA)		B (VA)		C (VA)		CB OPT	P	CB	LOAD SERVED	CKT NO	LOAD TYPE
	1					5764	5764									2	
KITCHEN	3	52A - DOUBLE SIDED GRILL	60	3	ST			5764	5764			ST	3	60	52B - DOUBLE SIDED GRILL	4	KITCHEN
	5									5764	5764					6	
KITCHEN	7	19.2 - FRYER UNIT	20	1	ST	1848	0					--	1	20	ROTISSERIE	8	--
--	9	SPARE	20	1	--			0	0			--	1	20	SPARE	10	--
--	11	SPARE	20	1	--					0	0	--	1	20	SPARE	12	--
--	13	SPARE	20	1	--	0	0					--	1	20	SPARE	14	--
--	15	STEAMER & KETTLE	20	1	--			0	0			--	1	20	SPARE	16	--
--	17	PAN & FRYER	20	1	--					0	0	--	1	20	SPARE	18	--
KITCHEN	19	19.1 - FRYER UNIT	20	1	ST	1848	0					--	1	20	SPARE	20	--
--	21	CONVECTION OVEN	20	1	--			0	2600							22	
--	23	CONVECTION OVEN	20	1	--					0	2600		2	30	30.1 - ICE MACHINE	24	KITCHEN
--	25	HOOD	20	1	--	0	0					--	1	20	SPARE	26	--
--	27	SPARE	20	1	--			0	2600							28	
--	29	SPARE	20	1	--					0	2600		2	30	30.2 - ICE MACHINE	30	KITCHEN
--	31	SPARE	20	1	--	0	1536					--	1	20	28 - ROLL IN REFRIGERATOR	32	KITCHEN
--	33	TEA BREWER	20	1	--			0	0			--	1	20	SPARE	34	--
--	35	SPARE	30	2	--					0	0	--	1	20	SPARE	36	--
	37					0	0					--	1	20	SPARE	38	--
--	39	SPARE	30	2	--			0	0			--	1	20	SPARE	40	--
	41									0	0	--	1	20	SPARE	42	--
		TOTAL LOAD:				20661 VA		21505 VA		19423 VA							
						0 VA		0 VA		0 VA							

PANEL CALCULATIONS : LOAD TYPE	CONNECTED LOAD
KITCHEN	50218 VA
EXISTING	11370 VA

DEMAND FACTOR LEGEND					
ELEVATOR	PER NEC 620.14	MOTOR	100%	PANEL TOTALS	
HOTEL	PER NEC 220.42	HEAT	100%	TOTAL CONNECTED LOAD	61588 VA
KITCHEN	PER NEC 220.56	MISC	100%	TOTAL DEMAND LOAD	44011 VA
RECEPTACLE	PER NEC 220.44	LIGHTING	1.25	TOTAL DEMAND CURRENT	122 A
RECEPT.(HEALTHCARE)	PER NEC 220.42	LARGEST MOTOR	125%	VOLTAGE	208Y/120V, 3Ø, 4W
UNIT PANEL	PER NEC 220.84	NON-COINCIDENT...	100%	SPARE LOAD CAPACITY %	0
X-RAY	PER NEC 517.73(2)	EV CHARGE	125%	PANEL AMPS	122 A

NOTES & SPECIAL OPTIONS:

1. SHUNT TRIP BREAKERS SHALL TRIP UPON ACTIVATION OF THE RESPECTIVE HOOD FIRE SUPPRESSION SYSTEM.

SWITCHBOARD: SB-110

VOLTAGE: 480Y/277V, 3Ø, 4W
BUS RATING: 3000 A
MAIN: 2000A MCB, GFI
BRANCH TYPE: NORMAL

CB OPT: ST – SHUNT TRIP, FR – 100% RATED, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER
EO – ELECTRICALLY OPERATED, SS – SOLID STATE
ERMS – ENERGY-REDUCING MAINTENANCE SWITCH
EP – EQUIPMENT GROUND FAULT (30mA)

A.I.C. RATING: 14kA
MOUNTING: FLOOR
ENCLOSURE: NEMA 1

LOAD TYPE	CKT NO	A	B	C	CB OPT	LOAD SERVED	# OF POLES	CB RATING
SPARE; EXISTING	1	41231	41231	41231		HP1A	3	225 A
MOTORS; SPARE; EXISTING	2	33933	33933	33933		HP1B	3	225 A
LIGHTING; MOTORS;...	3	224545	215139	212641		T110	3	800 A
EXISTING	4	18007	18007	18007		WATERWALL	3	150 A
EXISTING	5	18007	18007	18007		WATERWALL	3	150 A
EXISTING	6	18007	18007	18007		WATERWALL	3	150 A
EXISTING	7	18007	18007	18007		WATERWALL	3	150 A
EXISTING	8	18007	18007	18007		WATERWALL	3	150 A
EXISTING	9	88700	88700	88700		EXISTING PANEL "HV"	3	400 A
EXISTING	10	27033	27033	27033		KITCHEN TRAY WASHERS	3	125 A
EXISTING	11	22533	22533	22533		KITCHEN TRAY WASHERS	3	200 A
		528011 VA	518605 VA	516107 VA				

PANEL CALCULATIONS: LOAD TYPE	CONNECTE D...
LIGHTING	1542 VA
MOTORS	50551 VA
RECEPTACLE	5580 VA
KITCHEN	240322 VA
EXISTING	1264728 VA

DEMAND FACTOR LEGEND					
ELEVATOR	PER NEC 620.14	MOTOR	100%	PANEL TOTALS	
HOTEL	PER NEC 220.42	HEAT	100%	TOTAL CONNECTED LOAD	1562723 VA
KITCHEN	PER NEC 220.56	MISC	100%	TOTAL DEMAND LOAD	1487517 VA
RECEPTACLE	PER NEC 220.44	LIGHTING	1.25	TOTAL DEMAND CURRENT	1789 A
RECEPT. (HEALTHCARE)	PER NEC 220.42	LARGEST MOTOR	125%	VOLTAGE	480Y/277V, 3Ø, 4W
UNIT PANEL	PER NEC 220.84	NON-COINCIDENTAL	100%	SPARE LOAD CAPACITY %	0
X-RAY	PER NEC 517.73(2)	EV CHARGING	125%	PANEL AMPS	1789 A

NOTES & SPECIAL OPTIONS:

SWITCHBOARD: DP-110A

VOLTAGE: 208Y/120V, 3Ø, 4W
BUS RATING: 2000 A
MAIN: 1600 A MCB
BRANCH TYPE: NORMAL

CB OPT: ST – SHUNT TRIP, FR – 100% RATED, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER
EO – ELECTRICALLY OPERATED, SS – SOLID STATE
ERMS – ENERGY-REDUCING MAINTENANCE SWITCH
EP – EQUIPMENT GROUND FAULT (30mA)

A.I.C. RATING: 14kA
MOUNTING: FLOOR
ENCLOSURE: NEMA 1

LOAD TYPE	CKT NO	A	B	C	CB OPT	LOAD SERVED	# OF POLES	CB RATING
LIGHTING; RECEPTACLE;...	1	9520	8800	11422		LP2A	3	225 A
MOTORS; RECEPTACLE;...	2	11174	12354	10454		LP2B	3	225 A
SPARE; EXISTING	3	9739	9739	9739		LP2C	3	225 A
SPARE; EXISTING	4	11771	11971	10419		LP2D	3	225 A
SPARE; EXISTING	5	10992	10992	10992		KP1F	3	225 A
KITCHEN; SPARE; EXISTING	6	38872	40572	34936		KP1E	3	225 A
KITCHEN; SPARE; EXISTING	7	17244	13594	14956		KP1A	3	225 A
KITCHEN; SPARE; EXISTING	8	17106	12906	12774		KP1B	3	225 A
KITCHEN; SPARE; EXISTING	9	13308	8548	13368		KP1C	3	225 A
SPARE; EXISTING	10	13880	13880	13880		KP1D	3	225 A
KITCHEN; SPARE; EXISTING	11	20661	21505	19423		KPS1	3	225 A
EXISTING	12	18000	18000	18000		LCP8	3	225 A
EXISTING	13	13966	13966	13966		LCPC	3	225 A
EXISTING	14	5566	5566	5566		LCPD	3	225 A
EXISTING	15	9767	9767	9767		LCRP	3	100 A
EXISTING	16	2980	2980	2980		LP2E	3	100 A
		224545 VA	215139 VA	212641 VA				

PANEL CALCULATIONS: LOAD TYPE	CONNECTE D...
LIGHTING	1542 VA
MOTORS	1000 VA
RECEPTACLE	5580 VA
KITCHEN	240322 VA
EXISTING	403882 VA

DEMAND FACTOR LEGEND					
ELEVATOR	PER NEC 620.14	MOTOR	100%	PANEL TOTALS	
HOTEL	PER NEC 220.42	HEAT	100%	TOTAL CONNECTED LOAD	652326 VA
KITCHEN	PER NEC 220.56	MISC	100%	TOTAL DEMAND LOAD	568724 VA
RECEPTACLE	PER NEC 220.44	LIGHTING	1.25	TOTAL DEMAND CURRENT	1579 A
RECEPT. (HEALTHCARE)	PER NEC 220.42	LARGEST MOTOR	125%	VOLTAGE	208Y/120V, 3Ø, 4W
UNIT PANEL	PER NEC 220.84	NON-COINCIDENTAL	100%	SPARE LOAD CAPACITY %	0
X-RAY	PER NEC 517.73(2)	EV CHARGING	125%	PANEL AMPS	1579 A

NOTES & SPECIAL OPTIONS:

INVERTER: INVLA1

VOLTAGE : 120V, 1Ø, 2W
BUS RATING : 60 A
MAIN : 25 A MCB
BRANCH TYPE : EMERGENCY

CB OPT : ST – SHUNT TRIP, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER

A.I.C. RATING: 65kAIC
MOUNTING: WALL MOUNTED
ENCLOSURE: NEMA 1

LOAD TYPE	CKT NO	LOAD SERVED	CB	P	CB OPT	C (VA)		CB OPT	P	CB	LOAD SERVED	CKT NO	LOAD TYPE
LIGHTING	1	LIGHTING - FOH	20	1		294	1248		1	20	LTG - BOH KITCHEN	2	LIGHTING
	3											4	
		TOTAL LOAD:				1542 VA							
						0 VA							

PANEL CALCULATIONS : LOAD TYPE	CONNECTED LOAD
LIGHTING	1542 VA

DEMAND FACTOR LEGEND					
ELEVATOR	PER NEC 620.14	MOTOR		PANEL TOTALS	
HOTEL	PER NEC 220.42	HEAT		TOTAL CONNECTED LOAD	1542 VA
KITCHEN	PER NEC 220.56	MISC	100%	TOTAL DEMAND LOAD	0 VA
RECEPTACLE	PER NEC 220.44	LIGHTING		TOTAL DEMAND CURRENT	0 A
RECEPT.(HEALTHCARE)	PER NEC 220.42	LARGEST MOTOR	125%	VOLTAGE	120V, 1Ø, 2W
UNIT PANEL	PER NEC 220.84	NON-COINCIDENT...		SPARE LOAD CAPACITY %	
X-RAY	PER NEC 517.73(2)	EV CHARGE		PANEL AMPS	0 A

NOTES & SPECIAL OPTIONS:

GENERAL NOTES:

1 ALL CIRCUIT BREAKERS SHOWN AS LIGHT ARE EXISTING TO REMAIN. ALL CIRCUIT BREAKERS SHOWN AS DARK ARE NEW.

PGAV DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
220 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318 WWW.PGAV.COM

exp U.S. Services Inc.
t: +1.407.660.0088
f: +1.407.660.1655
2601 Westhall Lane
Maitland, FL 32751
USA
www.exp.com
Project #: #22018179-00
Cert of Auth: 29701

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REVISION SCHEDULE		
NO	DESCRIPTION	DATE
2	Revision 01	02/10/2023

SeaWorld SAN DIEGO

SWSD SHIPWRECK CAFE

SAN DIEGO, CA

ISSUE FOR BID / ISSUE FOR PERMIT

PANEL SCHEDULES

DATE	12/09/2022
DR RES/BAL	CK BJL/KAC
PGAV 64115-00	CLIENT SEA

SHEET NUMBER

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