

LIGHTING FIXTURE SCHEDULE						
TYPE	MC. AND CATALOG NO.	DESCRIPTIONS	MOUNTING	LAMP (QTY, WATT AND TYPE)	VOLTS	REMARKS
A	GOTHAM CV9 SERIES WITH LUTRON HI-LUME 1% ELECTRONIC DIMMING BALLAST	8" CYLINDER, ALUMINUM UPPER REFLECTOR WITH HIGHLY REFLECTIVE WHITE PAINT, 16" TALL, PENDENT WITH VERTICAL TRIPLE-TUBE LAMP, PENDENT MOUNT SO AS TO LOCATE BOTTOM OF FIXTURE AT LEVEL OF FAN BLADES. PROVIDE WITH 1% DIMMING BALLAST.	PENDENT	32W TRT 3500K	120	1,3,6,13
A1	GOTHAM CV9 SERIES WITH LUTRON ECOSYSTEM 5% ELECTRONIC DIMMING BALLAST	8" CYLINDER, ALUMINUM UPPER REFLECTOR WITH HIGHLY REFLECTIVE WHITE PAINT, 16" TALL, WITH VERTICAL TRIPLE-TUBE LAMP, PENDENT MOUNT SO AS TO LOCATED BOTTOM OF FIXTURE AT LEVEL OF FAN BLADES. PROVIDE WITH 5% DIMMING BALLAST.	SURFACE	32W TRT 3500K	120	1,6,13
B	GOTHAM 6" AFV SERIES WITH THERMALLY PROTECTED BALLAST.	6" APERTURE OPEN REFLECTOR, VERTICAL TRIPLE TUBE LAMP, SELF-FLANGED SEMI-SPECULAR CLEAR ALZAK REFLECTOR, 4" VERTICAL ADJUSTMENTS.	RECESSED	32W TRT 3500K	120	1,2,6
C	LITHONIA SP8 SERIES WITH A12 PATTERN ACRYLIC LENS DIFFUSER, .125" THICKNESS, NOMINAL	1'X 4' GASKETTED 2-LAMP FLUORESCENT FIXTURE, UV STABILIZED ACRYLIC LENS. PROVIDE GYP-BOARD HOUSING AROUND FIXTURE SO AS TO PREVENT DIRECT CONTACT WITH INSULATION.	RECESSED	(2) 32W T8, 3500K	120	1,2,4,6
C2	LITHONIA SP8 SERIES WITH A12 PATTERN ACRYLIC LENS DIFFUSER, .125" THICKNESS, NOMINAL	2'X 4' GASKETTED 6-LAMP FLUORESCENT FIXTURE, UV STABILIZED ACRYLIC LENS. PROVIDE GYP-BOARD HOUSING AROUND FIXTURE SO AS TO PREVENT DIRECT CONTACT WITH INSULATION.	RECESSED	(6) 32W T8, 3500K	120	1,2,4,6
C3	LITHONIA SP8 SERIES WITH A12 PATTERN ACRYLIC LENS DIFFUSER, .125" THICKNESS, NOMINAL	SIMILAR TO TYPE "C2" EXCEPT PROVIDE WITH (4) LAMPS.	RECESSED	(4) 32W T8, 3500K	120	1,2,4,6
D	FOCAL POINT FEQ 14 B SERIES VOLUMETRIC FIXTURE WITH T8 LAMPS	1'X 4' VOLUMETRIC LAMP, 20 GA STEEL REFLECTOR AND HOUSING. PROVIDE GYP-BOARD HOUSING AROUND FIXTURE SO AS TO PREVENT DIRECT CONTACT WITH INSULATION.	RECESSED	(2) 32W T8, 3500K	120	1,2,4,6
D2	LITHONIA SP8 SERIES WITH A12 PATTERN ACRYLIC LENS DIFFUSER, .125" THICKNESS, NOMINAL	SIMILAR TO TYPE "C2" EXCEPT PROVIDE WITH (4) LAMPS.	RECESSED	(4) 32W T8, 3500K	120	1,2,4,6
D3	FOCAL POINT FEQ 14 B SERIES VOLUMETRIC FIXTURE WITH T8 LAMPS	SIMILAR TO TYPE "D" EXCEPT PROVIDE WITH DUAL BALLASTS AND SWITCH ALTERNATELY SO AS TO PROVIDE 50% LIGHTING LEVEL IN THE ROOM.	RECESSED	(2) 32W T8, 3500K	120	1,2,4,6
F	LITHONIA WST LED SERIES 2-ENGINE LED WALLSCONCE.	POYESTER POWDER COAT EXTERIOR WALL SCONCE. COORDINATE EXACT FINISH AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ORDERING.	SURFACE	(20) 4000K 700mA LEDS.	120	1,3,11, 16
G	CON-TECK CTL 8028 SERIES	LED TRACK HEAD, PROVIDE WITH DIMMABLE 18W LED LAMP. PROVIDE COMPATIBLE TRACK, 4' LENGTH. PROVIDE APPROPRIATE DIMMER FOR WALL CONTROL.	TRACK	18W DIMMABLE LED LAMP INCLUDED WITH HEAD	120	1,2
H	BEGA 2196 LED SERIES	LOW LEVEL STEP LIGHTING	FLUSH WALL	LED LAMP INCLUDED WITH FIXTURE	120	1,3
J1	BEGA 8258 MH SERIES	PARKING LOT POLE MOUNTED LUMINAIRE ON 16' POLE. COORDINATE OPTICAL DISTRIBUTION TYPE WITH PHOTOMETRIC STUDY PRIOR TO ORDERING.	POLE	100W ED-17 MH COATED LAMP	120	1,3,14, 15,16
J2	BEGA 8258 MH SERIES	SIMILAR TO TYPE "J1" EXCEPT PROVIDE WITH (2) HEADS ON POLE.	POLE	100W ED-17 MH COATED LAMP	120	1,3,14, 15,16
K	LITHONIA 2SRH SERIES WITH A12 PATTERN ACRYLIC LENSE, .125" THICKNESS, NOMINAL	4-LAMP 2'X 4' SURFACE MOUNTED FLUORESCENT FIXTURE FOR KITCHEN APPLICATION, SUITABLE FOR HIGH-PRESSURE HOSE-DOWN APPLICATIONS.	SURFACE	(4) 32W T8, 3500K	120	1
K2	LITHONIA 2SRH SERIES WITH A12 PATTERN ACRYLIC LENSE, .125" THICKNESS, NOMINAL	KITCHEN STORAGE AREA FIXTURE, SIMILAR TO TYPE "K" EXCEPT PROVIDE WITH (6) LAMPS.	SURFACE	(6) 32W T8, 3500K	120	1
M	ALKCO LINC5150 SERIES	SINGLE LAMP FLUORESCENT UNDERCABINET TASK LIGHTING WITH EXTRUDED LINEAR PRISMATIC ACRYLIC LENS. WHITE GLAZE FINISH WITH FIXTURE MOUNTED ROCKER SWITCH	UNDER CABINET	32W T8, 3500K	120	1,5,12
P	FOCAL POINT FAVAW SERIES RECESSED WALL MOUNTED CEILING WASH TYPE FIXTURE, INVERTED MOUNT.	2' SINGLE LAMP RECESSED MOUNTED FLUORESCENT CEILING WASH FIXTURE WITH SINGLE T8 LAMP, MOUNTED INVERTED SO AS TO ILLUMINATE DESK. MOUNT 12" FROM DESK SURFACE, MOUNT 2' LENGTHS APPROXIMATELY 4' ON CENTER.	RECESSED WALL	17W T8, 3500K	120	1,12
X1	PHILLIPS PATRON LED PLACEMT SERIES BATTERY POWERED EXTERIOR EGRESS LIGHT	ARCHITECTURAL DIE CAST MINI-WALL LIGHT/UNIT WITH 90 MINUTE BATTERY. WET LOCATION LISTED. COORDINATE COLORS WITH ARCHITECT PRIOR TO ORDERING. LOCATED AT EXTERIOR SIDE OF EGRESS DOORS.	SURFACE	(8)-3W LED'S	120	1,3
Z	LITHONIA QUANTUM SERIES EXIT SIGN, LQM SERIES	LED TYPE EXIT SIGNAGE. PROVIDE 90 MINUTE BATTERY. COORDINATE EXACT COLOR REQUIREMENTS WITH OWNER AND THE LOCAL AUTHORITY HAVING JURISDICTION. PROVIDE QUANTITY OF ARROWS AS INDICATED ON DRAWINGS	CEILING	LED'S INCLUDED	120	1
W1	MONTE CARLO FANS INDOOR CEILING FAN - BRUSHED STEEL, MATTE OPAL GLASS LIGHT KIT, (5) 52" BLADES, #P829116 OR #400881	THREE SPEED CEILING FAN, 12 DEGREE BLADE PITCH, 5 BLADE FAN WITH LIGHT KIT, INDOOR MOUNTED IN GREAT ROOMS AND IN MULTI-PURPOSE ROOM. PROVIDE WALL MOUNTED SPEED CONTROL FOR EACH FAN.	STEM	75W HALOGEN T4 LAMP	120	1,3
W2	WESTINGHOUSE OASIS TROPICALSAFARI OUTDOOR CEILING FAN WITH LIGHT KIT, (5) 48" BLADES, RUBBED OIL BRONZE FINISH, #78619-65 OR SIMILAR	THREE SPEED CEILING FAN, 13 DEGREE BLADE PITCH, 5 BLADE FAN WITH LIGHT KIT, WET LOCATION RATED. MOUNTED OUTDOORS UNDER CANOPY. CHAIN MOUNTED SPEED CONTROL	STEM	60W INCANDESCENT, CANDELLABRA BASE	120	1,3

### LIGHTING FIXTURE SCHEDULE REMARKS

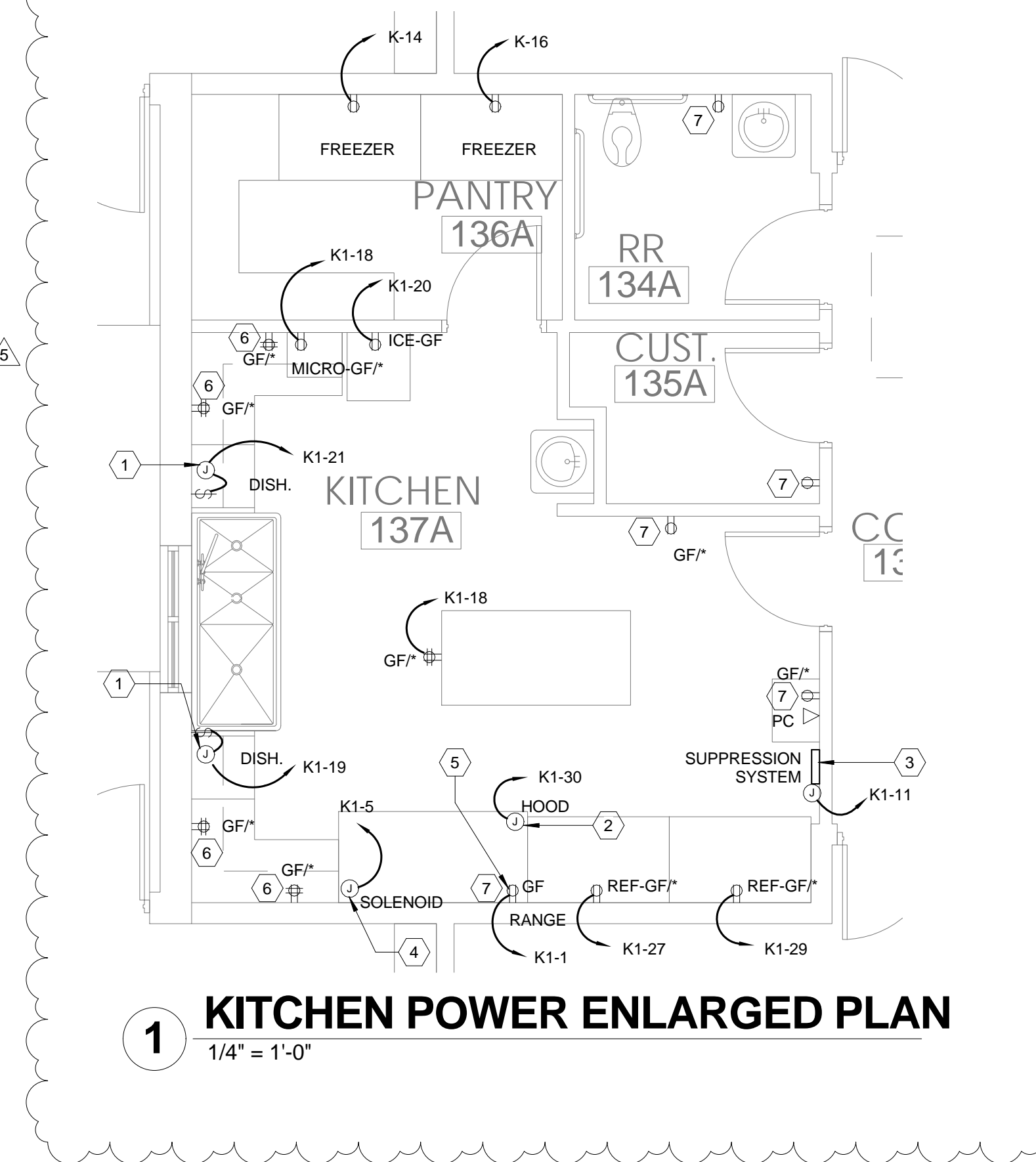
- SELECTION TO BE APPROVED BY ARCHITECT AND BUILDING REPRESENTATIVE BEFORE PURCHASING.
- REFER TO ARCHITECTURAL DRAWINGS AND DETAILS FOR EXACT CEILING TYPE IN ORDER TO DETERMINE THE APPROPRIATE FIXTURE FRAME KIT OR ADDITIONAL ACCESSORIES REQUIRED.
- COORDINATE MOUNTING HEIGHT OF FIXTURE WITH ARCHITECT PRIOR TO INSTALLATION.
- ALL LINEAR FLUORESCENT LAMPS THAT ARE CONTROLLED BY OCCUPANCY SENSORS SHALL BE PROVIDED WITH ELECTRONIC PROGRAMMED RAPID-START TYPE BALLASTS.
- UNDER-CABINET LIGHTING: LIGHTING SHALL BE INSTALLED IN 1'-0" INCREMENT TO MOST CLOSELY MATCH THE ENTIRE LENGTH OF UNDER CABINET SPACE. NUMBER OF UNDER-CABINET FIXTURE DESIGNATIONS INDICATES THE UNDERCABINET AREAS THAT REQUIRE THESE FIXTURES BUT DOES NOT NECESSARILY INDICATE THE QUANTITIES OR LENGTHS OF THE FIXTURES. PROVIDE QUANTITIES OF SIMILAR 2, 3 AND 4 FIXTURES AS REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS, SECTIONS AND ELEVATIONS OF UNDER-CABINET AREAS.
- FOR SIMILAR LIGHTING FIXTURES INDICATED ON THE PLAN AS SWITCHED OR UNSWITCHED EMERGENCY TYPE FIXTURES, PROVIDE AN APPROPRIATE 90 MINUTE BATTERY BALLAST FOR THE FIXTURE, PROVIDE EMERGENCY FIXTURE WITH FUSING SUCH THAT FAILURE OF FIXTURE BALLAST WILL NOT CAUSE OTHER FIXTURES ON THE SAME CIRCUIT TO FAIL. PROVIDE BUSMAN HEX FUSE HOLDER OR SIMILAR INSIDE OF BALLAST HOUSING. PROVIDE INTEGRAL TEST SWITCH.
- EXTERIOR LIGHTING FIXTURE TO SERVE EMERGENCY EGRESS FUNCTION.
- COORDINATE EXACT LENGTHS OF FIXTURE AS REQUIRED TO MOST FULLY SPAN THE ARCHITECTURAL COVE OR CABINET WHERE FIXTURE IS LOCATED. REFER TO ARCHITECTURAL PLANS, DETAILS, SECTIONS AND ELEVATIONS FOR COVE AND/OR UNDERCABINET REQUIREMENTS.
- AIMABLE FIXTURE WITH EXTRUDED ALUMINUM YOKE, ADJUSTABLE 0 TO 90 DEGREE VERTICALLY, 338 DEGREE HORIZONTALLY, MATTE BLACK FINISH. INCLUDE GEL HOLDER AND BARN DOOR SHUTTERS. PROVIDE (4) GELLS PER FIXTURE (RED, YELLOW, GREE, BLUE).
- COORDINATE FIXTURE AND POLE FINISH WITH ARCHITECT PRIOR TO ORDERING. REFER TO LANDSCAPE ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS. COORDINATE EXACT FIXTURE OPTICS SO AS TO MAXIMIZE ILLUMINATION ON PARKING LOT SURFACE. PROVIDE BUSMAN HEX TYPE FUSE HOLDER IN BASE OF POLE, FUSE AT 5 AMPS.
- WHERE FIXTURE IS INSTALLED AT STAND-ALONE OUT-BUILDING, SUCH AS AT THE GARAGE/STORAGE 164 OR OTHER AREA THAT THE CIRCUIT IS NOT SERVED THROUGH THE RELAY PANEL, PROVIDE THE FIXTURE WITH PHOTOCCELL CONTROL OPTION SO AS TO PREVENT DAY-BURING OF FIXTURE.
- PROVIDE A LOCAL WALL-MOUNTED ON/OFF SWITCH AND CONNECT THE FIXTURE TO THE OCCUPANCY SENSOR IN THE SPACE. SO AS TO SWITCH LIGHTING "OFF" WHEN SPACE IS UNOCCUPIED FOR DESIGNATED PERIOD OF TIME.
- WALLBOX TYPE DIMMER IS TO BE COMPATIBLE WITH THE DIMMING BALLAST USED. VERIFY PROPER MODEL NUMBER OF DIMMER FOR DIMMER/BALLAST COMPATIBILITY PRIOR TO SUBMITTAL.
- LIGHTING POLES TO BE PROVIDED AND ANCHORED TO THE POLE BASE SO AS TO THE WITHSTAND WIND LOADS AS REQUIRED PER DETAIL 01E4.02 (110 MPH WIND WITH 140 MPH - 3 SECOND - GUSTS). CONTRACTOR SHALL SUBMIT EVIDENCE FROM THE POLE MANUFACTURER THAT THE POLE CAN WITHSTAND THE WIND LOADS BASED ON THE FIXTURE EFFECTIVE PROJECTED AREA (EPA), BASED ON THE FIXTURE MANUFACTURER'S EPA DATA. CONTRACTOR SHALL SUBMIT MANUFACTURER'S RECOMMENDED FASTENING REQUIREMENTS IN ORDER TO ACHIEVE THE POLE WIND WITHSTAND VALUES.
- PROVIDE POLE MOUNTED FIXTURE HEADS WITH HOUSE-SIDE SHIELD TYPE SHIELDING SO AS TO PREVENT LIGHT SPILL OVER THE EDGE OF THE PROPERTY.
- FIXTURES TO BE FULL CUT-OFF TYPE AS REQUIRED BY THE CITY OF SUGAR LAND.

### GENERAL NOTES (LIGHTING FIXTURES)

- Refer to Architectural reflected ceiling plans for exact location of all fixtures.
- Verify color of all fixtures with Architect and Owner prior to ordering.
- Drawings do not show details of fixture mounting. Contractor shall provide all necessary and required mounting hardware and accessories as required for a complete and operating system. For fixtures mounted in a sloped ceiling, provide sloped-ceiling adaptors as required for all fixtures installed in such ceiling.
- All 2'x4' fixtures supported by framing members of suspended ceiling system shall be fastened to the ceiling framing member by mechanical means, such as bolts, screws, or rivets. Clips identified for use with the type of ceiling framing member(s) and fixture(s) shall also be permitted. All four sides of fixtures shall be fastened to ceiling framing members. Refer to N.E.C. 2011 Article 410.36(B).
- All fixtures shall be factory painted-after-fabrication type.
- In general, all fixtures in areas with lay-in type ceiling are connected using EMT conduit and 6-ft (maximum length) fixture whip. On plan drawings, fixture circuiting and connection are shown diagrammatically with arcs and curves. Such diagrammatic representation does not imply or indicate exclusive use of armored or metal clad cable (type BX or MC). ALL FIXTURE CONNECTION IN AREAS WITH LAY-IN CEILING SHALL BE MADE WITH CONDUIT AND 6-FT MAXIMUM LENGTH WHIPS.
- Fixtures with canopy in areas with gypsum board type ceiling may use the fixture canopy as a junction box or as a pull point. Recessed type fixtures located in gypsum board type ceiling may use access through the fixture housing for access to the fixture junction box, if they are so designed. Fixture types mounted in gypsum board type ceiling MUST be a type as designed for inaccessible type ceiling. Access hatch near the fixture will not be an acceptable means of meeting NEC 100 requirement of "accessible".

### KEYED NOTES

- POWER FOR DISH WASHER. PROVIDE HARDWIRED CONNECTION TO DISHWASHER, PROVIDE A SWITCH LOCATED ABOVE COUNTER. ENGRAVE COVERPLATE "DISH".
- EXHAUST HOOD FOR KITCHEN. PROVIDE A CONNECTION FOR HOOD LIGHTING. PROVIDE A SINGLE SWITCH TO CONTROL HOOD EXHAUST AND HOOD MAKEUP AIR FANS, PROVIDE INTERLOCK SUCH THAT EXHAUST AND SUPPLY FANS OPERATE SIMULTANEOUSLY. PROVIDE INTERLOCK WITH FIRE SUPPRESSION SYSTEM TO SHUT FANS DOWN UPON ACTIVATION OF SUPPRESSION SYSTEM.
- EXHAUST HOOD SUPPRESSION SYSTEM, ANSUL OR SIMILAR. PROVIDE INTERCONNECTION WITH FIRE ALARM SYSTEM TO ALERT FIRE ALARM SYSTEM FOR TROUBLE OR ALARM CONDITIONS.
- SOLENOID VALVE FOR GAS SUPPLY AT RANGE. PROVIDE CONNECTION WITH SUPPRESSION SYSTEM SUCH THAT WHEN SUPPRESSION SYSTEM IS ACTIVATED, THE SOLENOID SHUTS GAS SUPPLY TO THE RANGE.
- OUTLET FOR RANGE WITH SHUNT TRIP. PROVIDE ONNECTION WITH SUPPRESSION SYSTEM SUCH THAT WHEN SUPPRESSION SYSTEM IS ACTIVATED, THE SHUNT TRIP DE-ACTIVATES POWER TO RANGE RECEPTACLE.
- PROVIDE SEPARATE CIRCUIT PER EACH GFCI KITCHEN QUAD. RECEPTACLE. USE CIRCUITS K-22, K-24, K-26, AND K-28.
- GENERAL PURPOSE RECEPTACLE. USE CIRCUITS K1-13, K1-15, K1-17 WITH NO MORE THAN 3 RECEPTACLES PER CIRCUIT.



**1 KITCHEN POWER ENLARGED PLAN**  
1/4" = 1'-0"

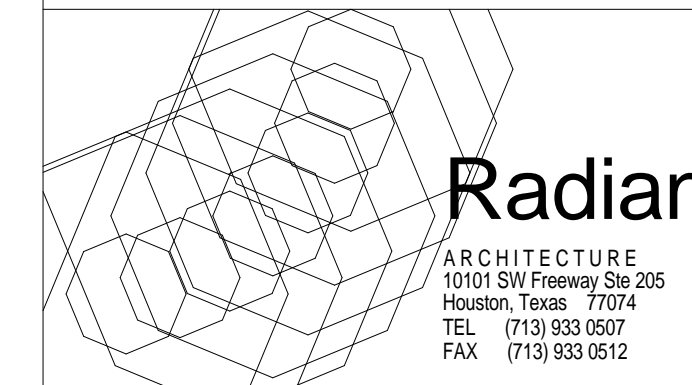
### DETAIL 01 GENERAL NOTES

- (A) SIMILAR FOR 137B EXCEPT SERVED FROM PANEL K2 AND EQUIPMENT IS MIRRORED.

REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL PHASING INFORMATION.



**OPTIMUM CARE**  
**SUGAR LAND, TEXAS**



Revision Schedule		
#	Date	Description
2	11-04-13	CITY COMMENTS
3	1-28-14	CITY COMMENTS
5	10-20-15	ELECTRICAL REVISIONS

Project No.  
**ELECTRICAL DETAILS AND ENLARGED PLANS**  
 Sheet No.

**E4.03**