

ABBREVIATIONS

A	APPERE
AFT	ABOVE FINISHED FLOOR
AS	AUTOMATIC TRANSFER SWITCH
C	CONDUIT
CO	CONDUIT ONLY
CDB	CABINET
CB	CIRCUIT BREAKER
(E)	(EXISTING)
(F)	(FUTURE)
S	SHOULD
HZ	HERTZ
JB	JUNCTION BOX
KW	KILOWATT
KW	KILOWATT/AMPERE
KW	KILOWATT
MCC	MOTOR CONTROL CENTER
(N)	(NEW)
NC	NORMALLY CLOSE
NO	NOT IN CONTRACT
NO	NORMALLY OPEN
NS	NOT TO SCALE
PH	PANEL
(R)	(RELOCATED)
S	SHOULD
SW	SWITCHBOARD
SWGR	SWITCHGEAR
TYP	TYPICAL
UN	UNLESS OTHERWISE NOTED
V	VOLT
VA	VOLT/AMPERE
W	WATT
WP	WEATHERPROOF

SYMBOLS

	INCANDESCENT, COMPACT FLUORESCENT, OR HID LIGHTING OUTLET AND FIXTURE.
	INCANDESCENT, COMPACT FLUORESCENT, OR HID LIGHTING OUTLET AND FIXTURE CONNECTED TO EMERGENCY POWER.
	EXIT SIGN LIGHTING OUTLET AND FUTURE SHADED QUADRANT INDICATES LIGHTED FACE DIRECTIONAL ARROWS AS INDICATED.
	FLUORESCENT LIGHTING OUTLET AND FIXTURE.
	FLUORESCENT LIGHTING OUTLET AND FIXTURE CONNECTED TO EMERGENCY POWER.
	ADJACENT NUMBER INDICATES CIRCUIT CONNECTED TO SMALL CASE LETTER INDICATES CONTROLLING SWITCH.
	WIRES IN CONDUIT CONCEALED ABOVE CEILING OR IN WALLS.
	WIRES IN CONDUIT CONCEALED BELOW FLOOR OR UNDERGROUND.
	HANGDOWN TO PANEL OR TERMINAL CABINET LETTER INDICATES PANEL NUMBER INDICATES CIRCUIT NUMBER, NUMBERS IN PARENTHESES INDICATES MULTI-POLE CIRCUIT.
	CROSS HATCHES INDICATES NUMBER OF NO. 12 AWG WIRES EXCLUDING GROUND WIRE, NO CROSS HATCHES INDICATES 2# 12 AWG WIRES, NUMBER ADJACENT TO CROSS HATCHES INDICATES WIRE SIZES LARGER THAN NO. 12 AWG.
	CONDUIT STUB-OUT
	CONDUIT RISER UP
	CONDUIT RISER DOWN
	FLEXIBLE CONDUIT
	FIRE ALARM CABLES IN CONDUIT CONCEALED ABOVE CEILING OR IN WALLS, CABLE TYPE, SIZE AND QUANTITY AS SPECIFIED.
	TELEPHONE/DATA SYSTEM CONDUIT CONCEALED ABOVE CEILING OR IN WALLS, SIZE AS SHOWN OR NOTED, MINIMUM SIZE: 1 INCH
	DISTRIBUTION PANELBOARD, SURFACE OR FLUSH WALL MOUNTED, MOUNT TOP OF CABINET 78 INCHES ABOVE FINISH FLOOR.
	LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARD, SURFACE OR FLUSH WALL MOUNTED, MOUNT TOP OF CABINET 78 INCHES ABOVE FINISH FLOOR.
	CONTROL PANEL, SURFACE OR FLUSH WALL MOUNTED, MOUNT TOP OF CABINET 72 INCHES ABOVE FINISH FLOOR.
	SINGLE POLE SWITCH, MOUNT DEVICE CENTER LINE 48 INCHES ABOVE FINISH FLOOR.
	THREE-WAY SWITCH, MOUNT DEVICE CENTER LINE 48 INCHES ABOVE FINISH FLOOR.
	SWITCH WITH THERMAL TRIP, MOUNT ADJACENT TO EQUIPMENT CONTROLLED.
	ADJACENT SMALL CASE LETTER INDICATES CONTROLLED DEVICE.
	DUPLEX RECEPTACLE, MOUNT DEVICE CENTER LINE 18 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.
	DOUBLE DUPLEX (QUAD) RECEPTACLE, MOUNT DEVICE CENTER LINE 18 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.
	DOUBLE DUPLEX (QUAD) RECEPTACLE, FLUSH FLOOR MOUNTED.
	ADJACENT NUMBER INDICATES CIRCUIT NUMBER CONNECTED TO, NUMBERS IN PARENTHESES INDICATES MULTI-POLE CIRCUIT.
	TELEPHONE OUTLET, MOUNT DEVICE CENTER LINE 42 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.
	VOICE/DATA OUTLET, MOUNT DEVICE CENTER LINE 18 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.
	VOICE/DATA OUTLET - FLUSH FLOOR MOUNTED
	FIRE ALARM MANUAL PULL STATION, MOUNT DEVICE CENTER LINE 48 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.
	FIRE ALARM STROBE, MOUNT DEVICE CENTER LINE 80 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.
	FIRE ALARM COMBINATION HORN/STROBE, MOUNT DEVICE CENTER LINE 80 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.
	SMOKE DETECTOR, DUCT MOUNTED.
	JUNCTION BOX.
	MOTOR CONNECTION
	DISCONNECT SWITCH, RATINGS AS SHOWN.
	MOTOR STARTER, RATINGS AS SHOWN.
	SHEET NOTE NUMBER
	EQUIPMENT NUMBER, UPPER HALF INDICATES EQUIPMENT NUMBER, LOWER HALF INDICATES EQUIPMENT TYPE, LIGHT FIXTURE TYPE.

GENERAL NOTES

1. NFPA 70, NEC 2011, AND VA STANDARD SPECIFICATIONS DIV. 26 SHALL APPLY.
2. DO NOT USE MULTI-WIRE BRANCH CIRCUITS, EACH 120V (AND 220V) BRANCH CIRCUIT SHALL HAVE DEDICATED NEUTRAL.
3. ALL WIRING SHALL BE IN CONDUIT (OR EMT), MINIMUM 3/4" DIAMETER.
4. PERFORM INSULATION TEST (MEGGER) OF CONDUCTORS #6 AWG AND LARGER.
5. TORQUE ALL CONNECTIONS (BOLTS/NUTS/SCREWS/BREAKERS) WITH AN APPROVED TORQUE WRENCH OR TORQUE SCREWDRIVER. PROVIDE DOCUMENTATION AND CALIBRATION REPORT.



100% CONSTRUCTION DOCUMENTS	Date
07-09-2013	

CONSULTANTS:

BRYAN BENNO BRAUER, P.E.
CONSULTING ENGINEER
PO BOX 2586, TRUCKEE, CA 96160 (530)565-4683
BRYAN@BRAUER.COM

ARSENIO ORTEGA, P.E.
CONSULTING ENGINEER
5 Third Street, Suite 716
San Francisco, CA 94103
(415) 546-0490 tel 0491 fax



ARCHITECT/ENGINEERS:

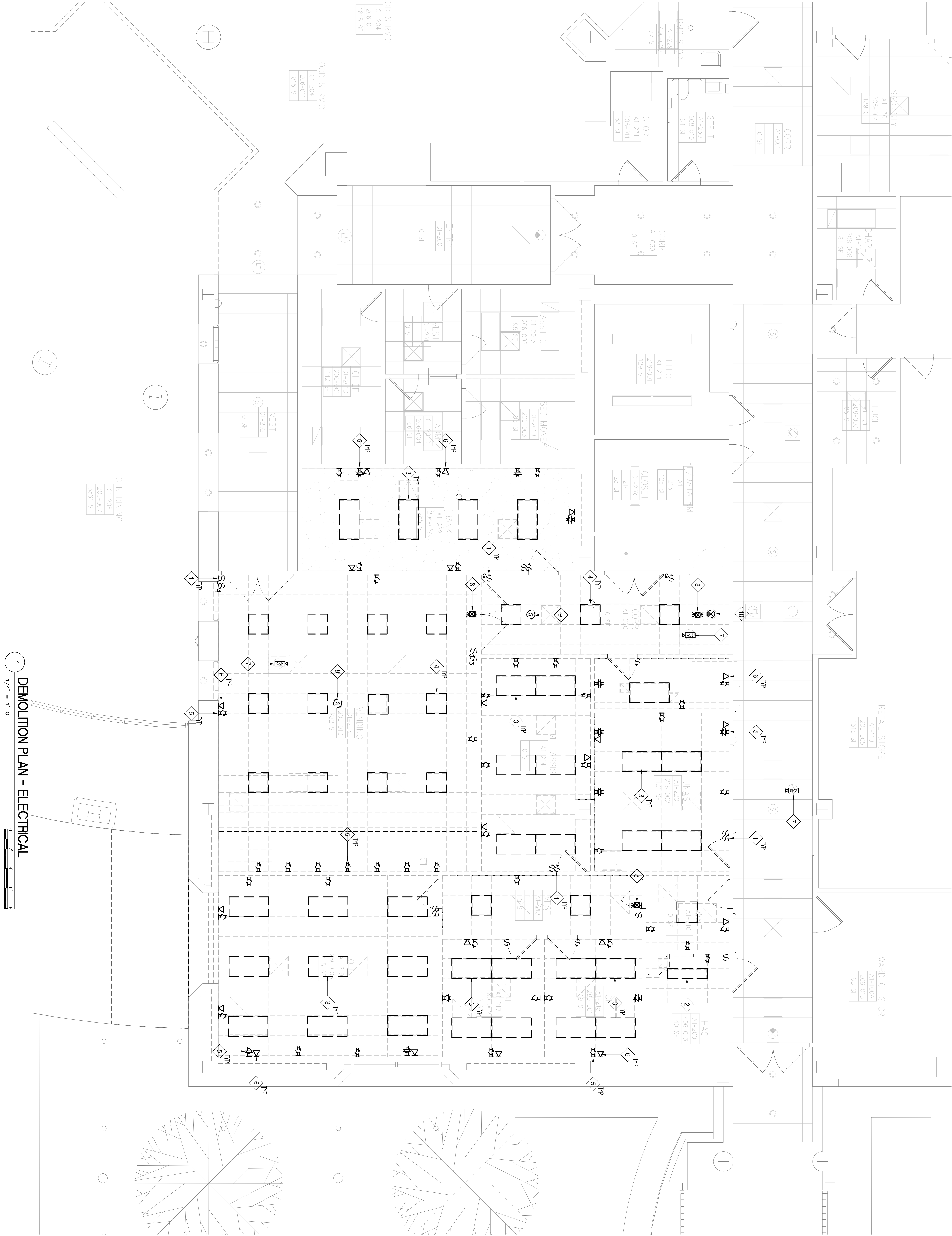
KPA
ENGINEERS ARCHITECTS
ONE KAISER PLAZA, SUITE 445
OAKLAND, CALIFORNIA 94612
TEL 510.271.6701 FAX 510.271.6707
©THE KPA GROUP 2013
KPA PROJECT No. 858201

100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED

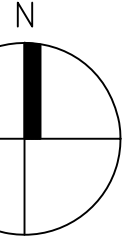
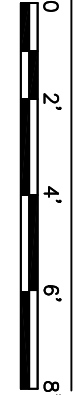
SYMBOLS, ABBREVIATIONS, GENERAL NOTES	Project Title CAJATEEN/COFFEE SHOP RENOVATION - BUILDING 101	Project Number 640-12-168P	Office of Construction and Facilities Management
Approved Project Director	Location VETERANS AFFAIRS, PALO ALTO, CALIFORNIA	Building Number 101	
VAPAHCS PLANNING AND ENGINEERING	Date 07/09/2013	Dwg 25 of 38	

SHEET NOTES

- REMOVE SWITCH AND WIRING BACK TO LIGHT FIXTURE.
- REMOVE 1"x4" RECESSED FLUORESCENT FIXTURE AND WIRING BACK TO POWER SOURCE.
- REMOVE 2"x4" RECESSED FLUORESCENT FIXTURE AND WIRING BACK TO POWER SOURCE.
- REMOVE 2"x2" RECESSED FLUORESCENT FIXTURE AND WIRING BACK TO POWER SOURCE.
- REMOVE RECEPTACLE AND WIRING BACK TO POWER SOURCE.
- REMOVE VOICE/DATA OUTLET AND CABLING BACK TO TERMINAL BLOCK.
- REMOVE CAMERA AND CABLING. RE-USE CAMERA AS SHOWN ON SHEET E1 1.03.
- REMOVE FIRE ALARM STROBE AND CABLING BACK TO NEXT DEVICE. RE-USE STROBE AS SHOWN ON SHEET E1 1.03.
- REMOVE FIRE ALARM SPEAKER AND CABLING BACK TO NEXT DEVICE. RE-USE SPEAKER AS SHOWN ON SHEET E1 1.03.
- REMOVE EXIST SIGN LIGHT AND WIRING BACK TO POWER SOURCE.



1 DEMOLITION PLAN - ELECTRICAL
1/4" = 1'-0"



100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED

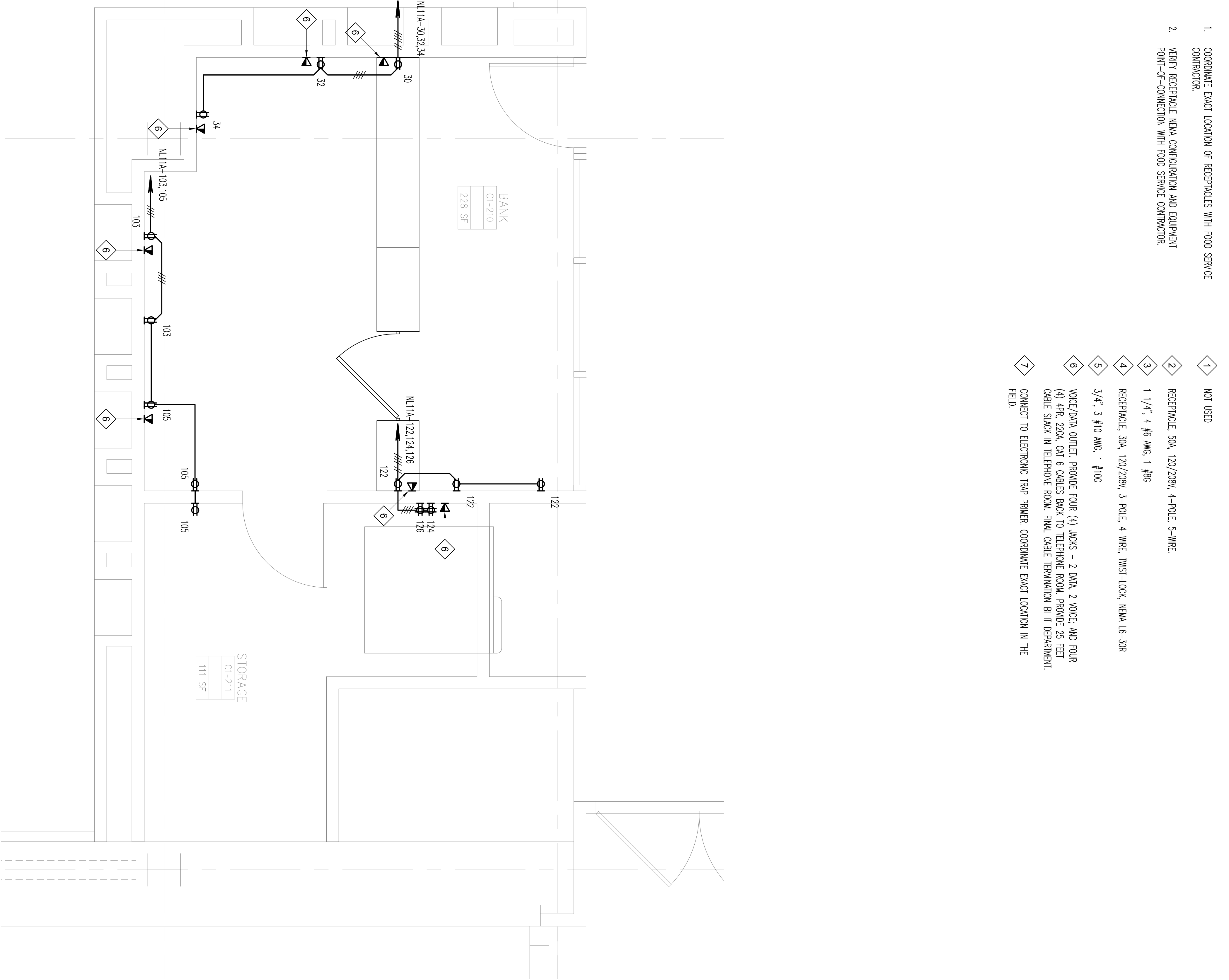
CONSULTANTS:		ARCHITECT/ENGINEERS:	
BRYAN BENNO BRAUER, P.E. CONSULTING ENGINEER PO BOX 2586, TRUCKEE, CA 96160 (530)866-4683 BRYANBRAUER.COM		ENGINEERS ARCHITECTS ONE KAISER PLAZA SUITE 445 OAKLAND CALIFORNIA 94612 TEL 510.271.6701 FAX 510.271.6707 THE KPA GROUP ©THE KPA GROUP 2013 KPA PROJECT No. 88201	
100% CONSTRUCTION DOCUMENTS		Project Title CANTREEN/COFFEE SHOP RENOVATION - BUILDING 101	
FINISHERS		Location VETERANS AFFAIRS PALO ALTO, CALIFORNIA	
Date		Approved Project Director	
07-09-2013		VAPAHCS PLANNING AND ENGINEERING	
Project Number 640-12-168P		Building Number 101	
Drawing Number EI 101		Drawing Number EI 101	
Dwg 26 of 38		Office of Construction and Facilities Management	
VA FORM 08-6231		VA PAHCS	

GENERAL NOTES

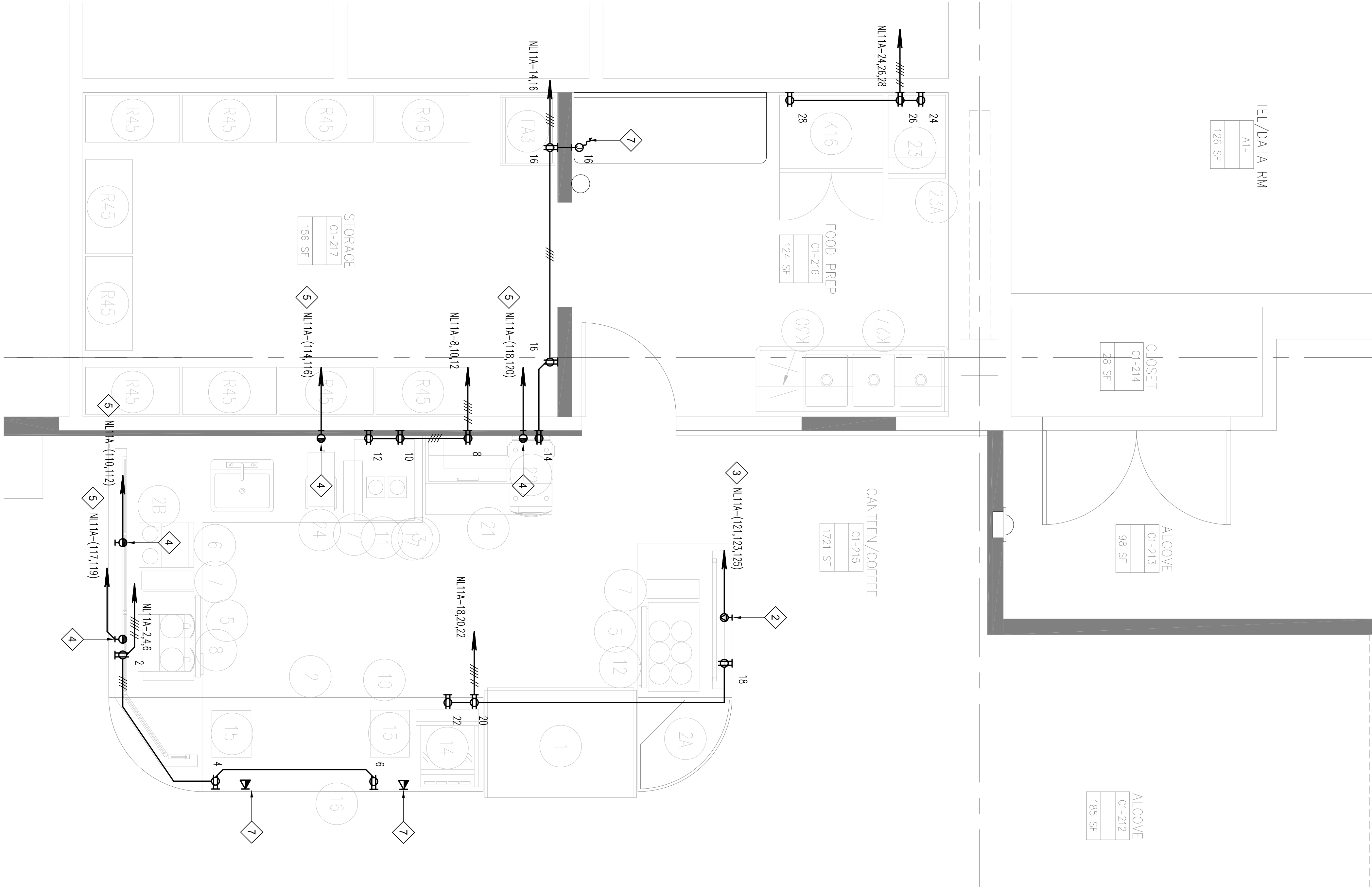
- COORDINATE EXACT LOCATION OF RECEPTACLES WITH FOOD SERVICE CONTRACTOR.
- VERIFY RECEPTACLE NECA CONFIGURATION AND EQUIPMENT POINT-OF-CONNECTION WITH FOOD SERVICE CONTRACTOR.

SHEET NOTES

- NOT USED
- RECEPTACLE, 50A, 120/208V, 4-POLE, 5-WIRE.
- 1 1/4", 4 #6 AWG, 1 #4S
- RECEPTACLE, 30A, 120/208V, 3-POLE, 4-WIRE, TMSI-LOCK, NEMA 1B-30R
- 3/4", 3 #10 AWG, 1 #10G
- VOICE/DATA OUTLET, PROVIDE FOUR (4) JACKS - 2 DATA, 2 VOICE, AND FOUR (4) 4P, 22GA, CAT 6 CABLES BACK TO TELEPHONE ROOM, PROVIDE 25 FEET CABLE SLACK IN TELEPHONE ROOM. FINAL CABLE TERMINATION IN IT DEPARTMENT.
- CONNECT TO ELECTRONIC TRAP PRIMER, COORDINATE EXACT LOCATION IN THE FIELD.



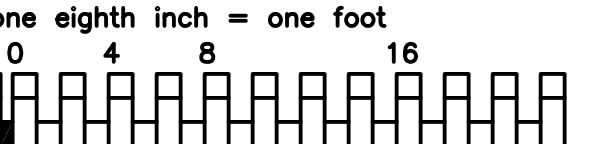
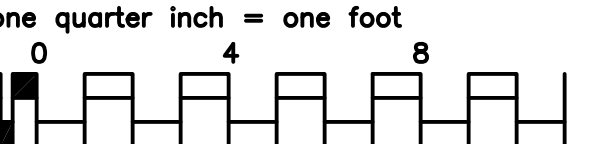
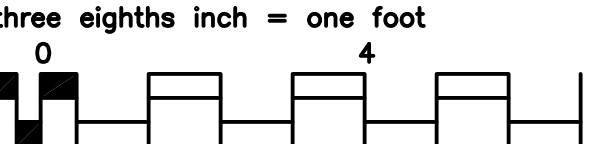
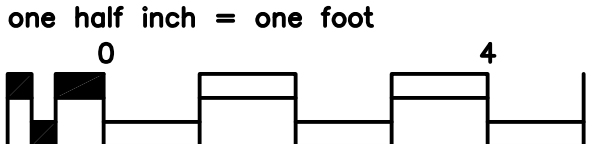
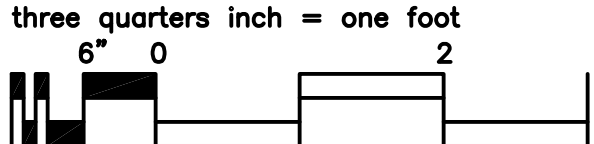
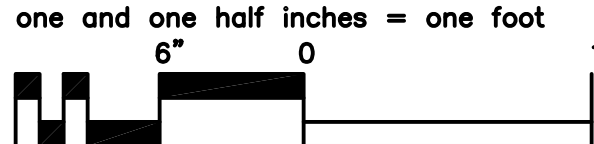
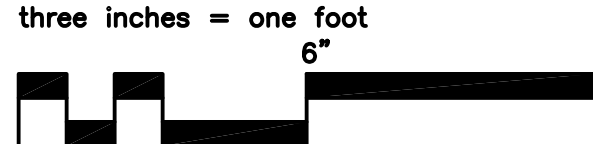
2 ENLARGED PLAN - BANK
1/2" = 1'-0"



1 ENLARGED PLAN - COFFEE BAR
1/2" = 1'-0"

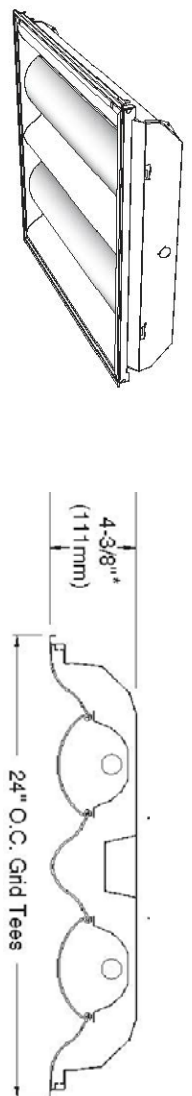
100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED

CONSULTANTS:		ARCHITECT/ENGINEERS:	
BRYAN BENNO BRAUER, P.E. CONSULTING ENGINEER PO BOX 2586, TRECKLE, CA 94161 (510) 546-0490 tel 0491 fax		KPA GROUP ENGINEERS ARCHITECTS ONE KAISER PLAZA SUITE 445 OAKLAND CALIFORNIA 94612 TEL 510.271.6701 FAX 510.271.6707 ©THE KPA GROUP 2013 KPA PROJECT NO. 88201	
100% CONSTRUCTION DOCUMENTS		Approved Project Director VAPAHCS PLANNING AND ENGINEERING	
Date		Location VETERANS AFFAIRS, PALO ALTO, CALIFORNIA	
07-09-2013		Checked PMP	
		Drawn KPA TEAM	
		Drawing Number EI 401	
		Dwg 29 of 38	
		Office of Construction and Facilities Management VA PAHCS	



TYPE A

DIRECT/INDIRECT RECESSED 2' X 2' FLUORESCENT

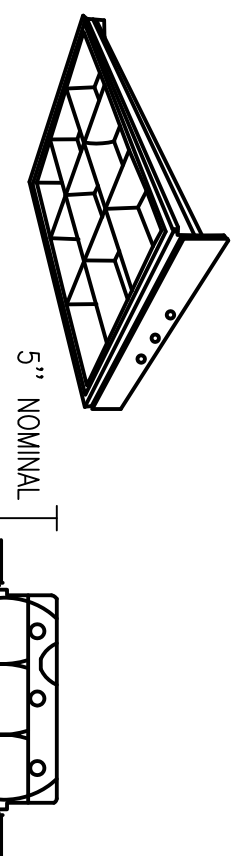


LUMINAIRE REQUIREMENTS:

- HOUSING - DIE-FORMED, COLD-ROLLED STEEL, WITH REINFORCEMENT RIBS FOR RIGIDITY. ENDGAPS SECURED WITH TABS, SCREWS OR RIVETS. FIXTURE SHALL NOT PERMANENTLY DEFORM OUT OF SQUARE WHEN PICKED UP FROM ANY CORNER.
 - FINISH - MULTI-STAGE PHOSPHATE BONDING TREATMENT FINISHED WITH HIGH REFLECTANCE (MINIMUM 85%), BAKED WHITE ENAMEL FINISH.
 - REFLECTORS - TWO-PIECE CURVED ALUMINUM WITH MATE WHITE FINISH.
 - LIGHT BASKET - TWO (2) PERFORATED STEEL (HOLES OR SLOTS) WITH SAME FINISH AS HOUSING, AND WHITE OPAL ACRYLIC OVERLAY.
 - LAMPS - LINEAR FLUORESCENT T8, OR COMPACT T5, TYPICALLY WITH WATTAGES AS INDICATED. SEE LIGHTING FIXTURE SCHEDULE.
 - BALLAST - CLASS P, THERMALLY-PROTECTED, HIGH POWER FACTOR ($\geq .95$), ELECTRONIC TYPE WITH SOUND RATING A. SEE SPECIFICATION OR LIGHTING FIXTURE SCHEDULE FOR BALLAST OPTIONS AND SPECIFICS.
 - CERTIFICATION - UL LISTED AND LABELED.
 - PHOTOMETRICS - MINIMUM VALUE OF COEFFICIENT OF UTILIZATION (CU) AND EFFICIENCY, GIVEN INTERIOR CAVITY REFLECTANCES OF 80-50-20.
- 2 LAMP (F4T/7S)
W/ PERFORATED LIGHT BASKET
- | RCR | CU |
|-----|----|
| 1 | 65 |
| 2 | 56 |
| 3 | 49 |
| 4 | 44 |
- EFFICIENCY - 62%

TYPE B

PARABOLIC RECESSED 2' X 2' FLUORESCENT TROFFER

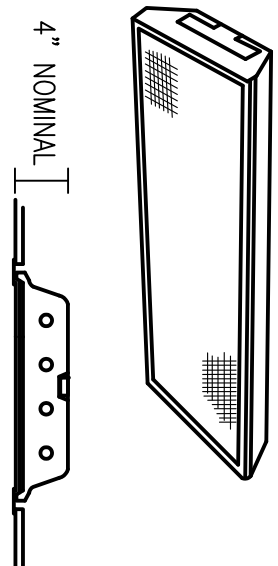


LUMINAIRE REQUIREMENTS:

- HOUSING - DIE-FORMED, COLD-ROLLED STEEL, WITH REINFORCEMENT RIBS FOR RIGIDITY. ENDGAPS SECURED WITH TABS, SCREWS OR RIVETS. FIXTURE SHALL NOT PERMANENTLY DEFORM OUT OF SQUARE WHEN PICKED UP FROM ANY CORNER. INSIDE EDGE OF HOUSING SHALL HAVE RILL FOR BACK REVEL FOR TROFFER EFFECT.
 - FINISH - MULTI-STAGE PHOSPHATE BONDING TREATMENT FINISHED WITH HIGH REFLECTANCE (MINIMUM 85%), BAKED WHITE ENAMEL FINISH.
 - LOWERS - LOW-REFLECTANT SEMI-SPHERICAL SILVER ANODIZED ALUMINUM 0.02" THICKNESS, 3" MINIMUM DEPTH (UNLESS MANUFACTURED SPECIFICALLY FOR USE WITH T8 FLUORESCENT LAMPS).
 - LAMPS - LINEAR FLUORESCENT T8, OR COMPACT T5, TYPICALLY WITH WATTAGES AS INDICATED. SEE LIGHTING FIXTURE SCHEDULE.
 - BALLAST - CLASS P, THERMALLY-PROTECTED, HIGH POWER FACTOR ($\geq .95$), ELECTRONIC TYPE WITH SOUND RATING A. SEE SPECIFICATION OR LIGHTING FIXTURE SCHEDULE FOR BALLAST OPTIONS AND SPECIFICS.
 - CERTIFICATION - UL LISTED AND LABELED.
 - PHOTOMETRICS - MINIMUM VALUE OF COEFFICIENT OF UTILIZATION (CU) AND EFFICIENCY, GIVEN INTERIOR CAVITY REFLECTANCES OF 80-50-20.
- 3 LAMP (F17/T8)
- | RCR | CU |
|-----|----|
| 1 | 73 |
| 2 | 65 |
| 3 | 58 |
| 4 | 52 |
- EFFICIENCY - 75%
- SEE OPTIONAL REQUIREMENTS ASSOCIATED WITH THIS FIXTURE. INCLUDE ALL INFORMATION IN LIGHTING FIXTURE SCHEDULE.

TYPE C

PRISMATIC LENS RECESSED 2' X 4' FLUORESCENT TROFFER

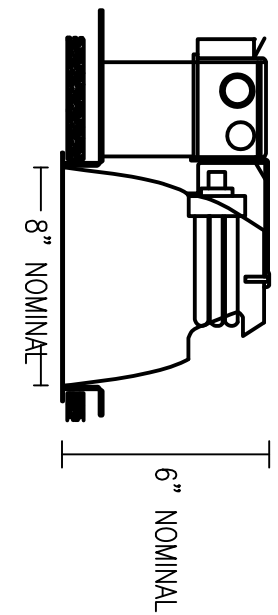


LUMINAIRE REQUIREMENTS:

- HOUSING - DIE-FORMED, COLD-ROLLED STEEL, WITH REINFORCEMENT RIBS FOR RIGIDITY. ENDGAPS SECURED WITH TABS, SCREWS OR RIVETS. FIXTURE SHALL NOT PERMANENTLY DEFORM OUT OF SQUARE WHEN PICKED UP FROM ANY CORNER. DEPTH AS INDICATED UNLESS SPECIFICALLY MANUFACTURED FOR OPTIMAL USE WITH T8 LAMPS.
 - FINISH - MULTI-STAGE PHOSPHATE BONDING TREATMENT FINISHED WITH HIGH REFLECTANCE (MINIMUM 85%), BAKED WHITE ENAMEL FINISH.
 - LENS - 100% ACRYLIC, CLEAR PRISMATIC, PATTERN #12 WITH MINIMUM 0.125" THICKNESS.
 - LAMPS - LINEAR FLUORESCENT T8, TYPICALLY WITH WATTAGES AS INDICATED. SEE LIGHTING FIXTURE SCHEDULE.
 - BALLAST - CLASS P, THERMALLY-PROTECTED, HIGH POWER FACTOR ($\geq .95$), ELECTRONIC TYPE WITH SOUND RATING A. SEE SPECIFICATION OR LIGHTING FIXTURE SCHEDULE FOR BALLAST OPTIONS AND SPECIFICS.
 - CERTIFICATION - UL LISTED AND LABELED.
 - PHOTOMETRICS - MINIMUM VALUE OF COEFFICIENT OF UTILIZATION (CU) AND EFFICIENCY, GIVEN INTERIOR CAVITY REFLECTANCES OF 80-50-20.
- 2 LAMP (F32/T8)
- | RCR | CU |
|-----|----|
| 1 | 80 |
| 2 | 71 |
| 3 | 64 |
| 4 | 57 |
- EFFICIENCY - 77%
- 3 LAMP (F32/T8)
- | RCR | CU |
|-----|----|
| 1 | 79 |
| 2 | 70 |
| 3 | 63 |
| 4 | 56 |
- EFFICIENCY - 75%
- 4 LAMP (F32/T8)
- | RCR | CU |
|-----|----|
| 1 | 76 |
| 2 | 67 |
| 3 | 60 |
| 4 | 54 |
- EFFICIENCY - 71%
- SEE OPTIONAL REQUIREMENTS ASSOCIATED WITH THIS FIXTURE. INCLUDE ALL INFORMATION IN LIGHTING FIXTURE SCHEDULE.

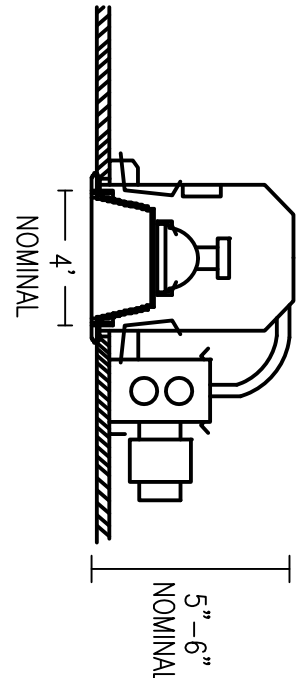
TYPE D

RECESSED COMPACT FLUORESCENT DOWNLIGHT



LUMINAIRE REQUIREMENTS:

- HOUSING - ONE-PIECE, DIE-STAMPED, COLD ROLLED STEEL, OR ACRYLIC-FINISHED ALUMINUM. PROVIDE WITH PRE-WHELED JUNCTION BOX HAVING SWAP-ON ACCESS COVER. ACCESS TO JUNCTION BOX FROM BELOW.
- REFLECTOR AND TRIM - ONE-PIECE, CLEAR, SPIN ALUMINUM, RECESSED-AVAILABLE. SEE LIGHTING FIXTURE SCHEDULE.
- BALLAST - CLASS P, MULTI-VOLT (120V-277V INPUT), HIGH POWER FACTOR ($\geq .95$), PROGRAMMED RAPID START ELECTRONIC TYPE WITH 5-10% TOTAL HARMONIC DISTORTION. BALLAST SHALL BE OPERABLE AT UNIVERSALLY OPERATING 20W, 32W, OR 42 WATT LAMPS.
- LAMPS - MULTI-TUBE, COMPACT FLUORESCENT WITH 4-PIN BASE. PROVIDE WITH WATTAGES AS INDICATED. SEE LIGHTING FIXTURE SCHEDULE.
- CERTIFICATION - UL LISTED AND LABELED.
- FIXTURE TYPES - TYPE D - 8" NOMINAL APERTURE
- OPTIONS - REFLECTOR TYPE - DIRECT DOWNLIGHT; SEMI-SPHERICAL OR SPECULAR. REFLECTOR COLOR - CLEAR. TRIM - OPEN REFLECTOR.



TYPE E

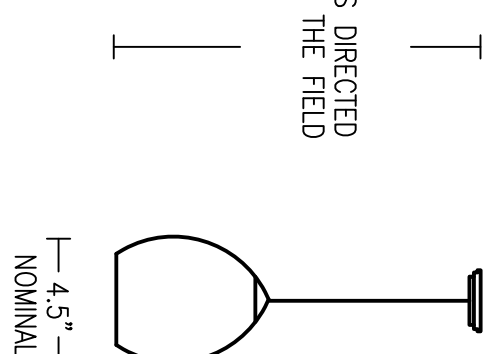
LOW-VOLTAGE RECESSED DOWNLIGHT

LUMINAIRE REQUIREMENTS:

- HOUSING - ONE-PIECE, COLD ROLLED STEEL, WITH MATE BLACK FINISH. INTERIOR JUNCTION BOX WITH SWAP-ON COVER AND GROUNDING PRONG.
- REFLECTOR AND TRIM - ONE-PIECE, CLEAR, SPIN ALUMINUM, RECESSED-AVAILABLE. SEE LIGHTING FIXTURE SCHEDULE.
- TRANSFORMER - CLASS 1 MAGNETIC STEP-DOWN WITH THERMAL PROTECTION MOUNTED TO JUNCTION BOX.
- LAMPS - LOW-VOLTAGE, MULTI-FACETED REFLECTOR TYPE TYPICALLY, WITH WATTAGES AS INDICATED. SEE LIGHTING FIXTURE SCHEDULE.
- CERTIFICATION - UL LISTED AND LABELED FOR DAMP LOCATIONS.
- OPTIONS - REFLECTOR COLOR - CLEAR. REFLECTOR TYPE - SEMI-DIFFUSE. TRIM - OPEN REFLECTOR.

TYPE F

PENDANT-MOUNTED SEMI-INDIRECT LUMINOUS INVERTED BOWL

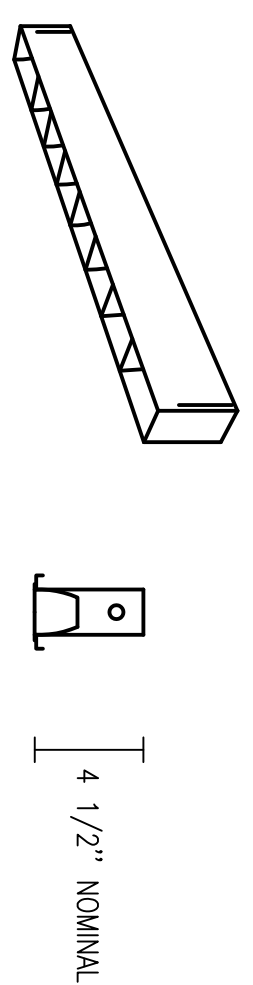


LUMINAIRE REQUIREMENTS:

- BOWL - TRANSLUCENT GLASS, 4.5 DIAMETER X 7.7 HIGH "BANDOP" SHAPE, AMBER FINISH.
- TRIM - SATIN NICKEL FINISH
- MOUNTING - PENDANT-MOUNT WITH CANOPY/HARDWIRE CABLE SYSTEM, FIELD-CUTTABLE SUSPENSION.
- TRANSFORMER - CANOPY MOUNTED, 12V OUTPUT.
- LAMPS - LOW VOLTAGE 50W HALOGEN B1-PIN BASE, SEE LIGHTING FIXTURE SCHEDULE.
- CERTIFICATION - UL LISTED AND LABELED.

TYPE G

PARABOLIC RECESSED 2 1/2' X 4' FLUORESCENT TROFFER

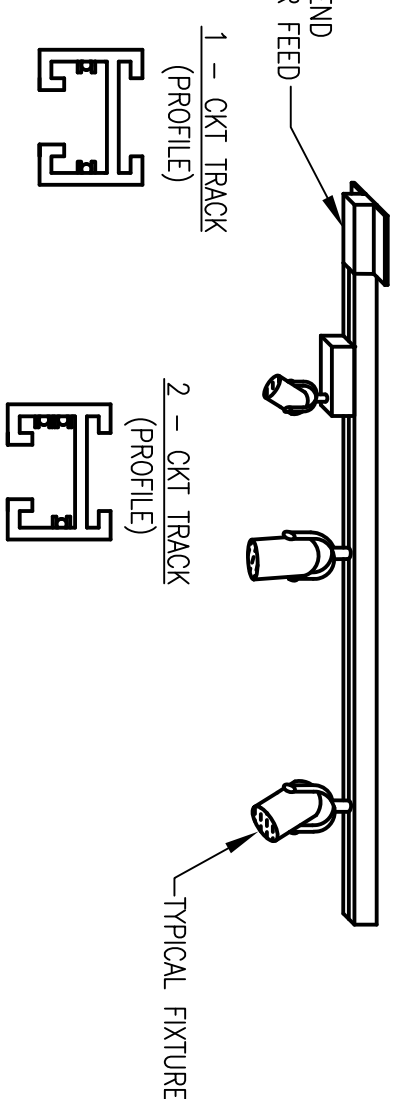


LUMINAIRE REQUIREMENTS:

- HOUSING - COLD-ROLLED STEEL, RIGIDITY. ENDGAPS SECURED WITH TABS, SCREWS OR RIVETS. FIXTURE SHALL NOT PERMANENTLY DEFORM OUT OF SQUARE WHEN PICKED UP FROM ANY CORNER.
 - FINISH - MULTI-STAGE PHOSPHATE BONDING TREATMENT FINISHED WITH HIGH REFLECTANCE (MINIMUM 85%), BAKED WHITE ENAMEL FINISH.
 - LOWERS - HIGH EFFICIENCY PARABOLIC SPECULAR LOWER, SYMMETRIC LIGHT DISTRIBUTION.
 - LAMPS - LINEAR FLUORESCENT T5, WITH WATTAGES AS INDICATED. SEE LIGHTING FIXTURE SCHEDULE.
 - BALLAST - CLASS P, THERMALLY-PROTECTED, HIGH POWER FACTOR ($\geq .95$), ELECTRONIC TYPE WITH SOUND RATING A. SEE SPECIFICATION OR LIGHTING FIXTURE SCHEDULE FOR BALLAST OPTIONS AND SPECIFICS.
 - CERTIFICATION - UL LISTED AND LABELED.
 - PHOTOMETRICS - MINIMUM VALUE OF COEFFICIENT OF UTILIZATION (CU) AND EFFICIENCY, GIVEN INTERIOR CAVITY REFLECTANCES OF 80-50-20.
- 1 LAMP (F28/T5)
- | RCR | CU |
|-----|----|
| 1 | 91 |
| 2 | 81 |
| 3 | 73 |
| 4 | 65 |
- EFFICIENCY - 71%

TYPE H

SURFACE MOUNTED TRACK LIGHTING

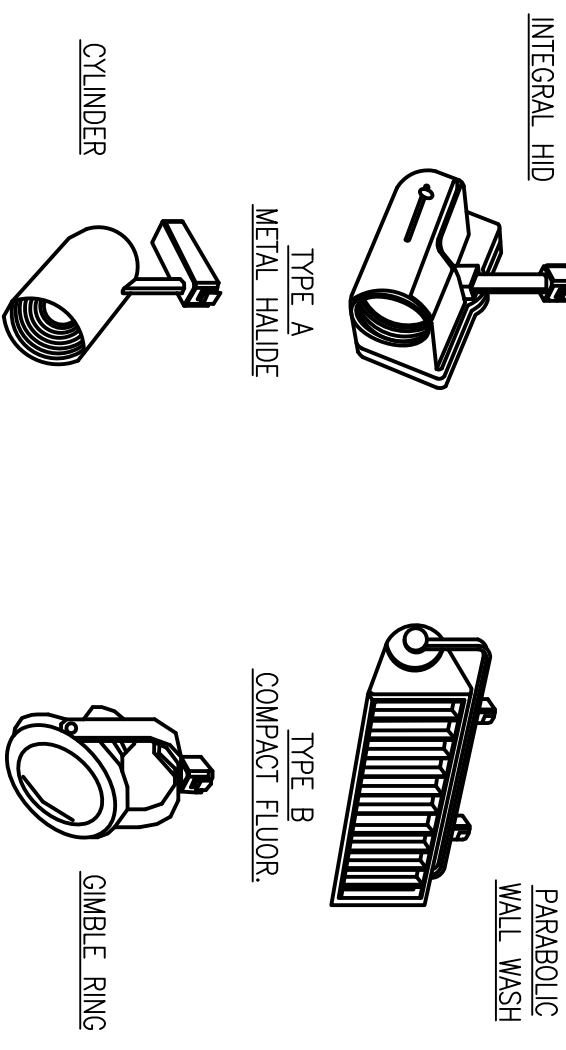


LUMINAIRE REQUIREMENTS:

- TRACK SECTION - HEAVY-GAUGE EXTRUDED ALUMINUM CHANNEL WITH NATURAL ALUMINUM OR BAKED PAVEL, OR POWDER COAT WHITE, OR BLACK FINISH.
- APERTURE - TRACK SHALL HAVE ONE OR TWO 20 AMP CIRCUITS INTEGRAL TO EXTRUDED TRACK CHANNEL, AS NOTED.
- LENGTHS - TRACK SHALL BE AVAILABLE IN 2', 4', 8', AND 12' CONTINUOUS SECTIONS.
- MOUNTING - EACH 4' OR LESS SECTION OF TRACK SHALL BE SECURED BY TWO TORSION-BOLT TYPE FASTENERS, OR SCREWS IF JOIST IS AVAILABLE.
- FIXTURE TYPES - SEE NL-43 FOR COMMON TRACK LIGHTING FIXTURES.
- CERTIFICATION - UL LISTED AND LABELED.
- OPTIONS - PROVIDE ACCESSORIES AS NECESSARY FOR A COMPLETE INSTALLATION. AVAILABLE ACCESSORIES INCLUDE:
 - A. LIVE END FEED - USED TO START A SINGLE RUN.
 - B. LINEAR COUPLER - USED TO JOIN TWO STRAIGHT TRACKS.
 - C. L FEED CONNECTOR - JOINS THREE TRACKS IN TEE CONFIGURATION.
 - D. T FEED CONNECTOR - JOINS THREE TRACKS IN TEE CONFIGURATION.
 - E. FLEXIBLE CONNECTOR - JOINS TWO TRACKS IN UP TO A 90 DEGREE BEND.
 - F. SURFACE CONDUIT FEED - PERMITS TRACK END TO BE CONNECTED TO 1/2" CONDUIT, CONCEALED FEED - PERMITS TRACK TO BE CONNECTED FROM ABOVE WITHOUT OUTLET BOX.

TYPE I

TYPICAL TRACK LIGHTING FIXTURES

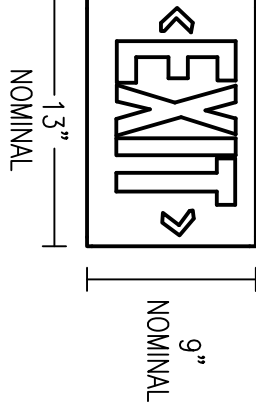


LUMINAIRE REQUIREMENTS:

- HOUSING - TYPE A: DIE-CAST ALUMINUM WITH MATE BLACK FINISH. TYPE B: ALUMINUM WITH OPTIONAL CAST ALUMINUM END CAPS. TYPE C & D: HIGH QUALITY METAL WITH MATE BLACK FINISH FOR TYPE C. VARIETY OF OTHER COLORS AVAILABLE. ADD SPECIFIC DESCRIPTION TO LIGHTING FIXTURE SCHEDULE.
- BALLAST - TYPE A: HIGH POWER FACTOR ($\geq .90$) ELECTRONIC, CLASS A, NOSE RATING. TYPE B: CLASS P, MULTI-VOLT (120-277V INPUT), HIGH POWER FACTOR ($\geq .95$), PROGRAMMED RAPID START ELECTRONIC TYPE FOR COMPACT FLUORESCENT LAMPS. TYPE C: CLASS P, MULTI-VOLT (120-277V INPUT), HIGH POWER FACTOR ($\geq .95$), PROGRAMMED RAPID START ELECTRONIC TYPE FOR COMPACT FLUORESCENT LAMPS. TYPE D: NONE. LINE VOLTAGE.
- LAMPS - TYPE A: PAR TYPE COLOR CORRECTED CERAMIC METAL HALIDE. TYPE B: MULTI-TUBE OR LONG TWIN TUBE COMP. FLUOR. OR LINEAR FLUOR. TYPE C: PAR-16, PAR-30, OR 35 INCANDESCENT. TYPICALLY PROVIDE WITH WATTAGES AS INDICATED. SEE LIGHTING FIXTURE SCHEDULE.
- CERTIFICATION - UL LISTED AND LABELED.

TYPE X

LED EXIT SIGN



LUMINAIRE REQUIREMENTS:

- HOUSING - DIE-CAST ALUMINUM OR HIGH-IMPACT, UV-STABILIZED, INJECTION-MOLDED THERMOPLASTIC, SINGLE OR DOUBLE-FACED AS INDICATED.
- LETTERS/CHARACTERS - MINIMUM 6" HIGH WITH 3/4" STROKE. RED OR GREEN LETTERS AS INDICATED. PROVIDE CHARACTERS AS INDICATED EITHER LEFT, RIGHT OR BOTH DIRECTIONS AS INDICATED. CHARACTERS PUNCHED OUT THROUGH HOUSING AS REQUIRED.
- MOUNTING - UNIVERSAL MOUNTING KIT FOR CEILING, WALL OR END-OF-FIXTURE MOUNTING.
- ILLUMINATION - PROVIDED BY RED, GREEN OR WHITE HIGH-OUTPUT LEDs INSIDE OF FIXTURE HOUSING. PROVIDE POLYSTYRENE DIFFUSER IN COLOR INDICATED WITH FREQUENCY-MATCHED SILKSCREEN COATING FOR MAXIMUM LED LIGHT OUTPUT.
- CERTIFICATION - UL LISTED AND CERTIFIED FOR DAMP LOCATIONS.

100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED

CONSULTANTS:				ARCHITECT/ENGINEERS:			
-	-	-	-	ENGINEERS ARCHITECTS			
-	-	-	-	ONE KAISER PLAZA SUITE 445			
-	-	-	-	OAKLAND CALIFORNIA 94612			
-	-	-	-	TEL: 510.271.6701 FAX: 510.271.6707			
-	-	-	-	THE KPA GROUP 2013			
-	-	-	-	KPA PROJECT No. 88201			
100% CONSTRUCTION DOCUMENTS				Approved Project Director			
7-09-2013				Location			
Date				VAPAHCS PLANNING AND ENGINEERING			
BRYAN BENNO BRAUER, P.E.				Project Title			
CONSULTING ENGINEER				CANTINE/COFFEE SHOP			
PO BOX 2586, TRUCKEE, CA 96161 (530)865-4683				Building Number			
BRYANBRAUER.COM				101			
Date				Drawing Number			
07-09-2013				E I 601			
Date				Dwg 31 of 38			
07-09-2013				Office of Construction and Facilities Management			
07-09-2013				VA PAHCS			

PANEL NL11A-1 (EXISTING)

BRANCH
VOLTAGE 120/208V, 3Ø, 4W
IC RATING 10,000 AIC

DESCRIPTION	Ø A Ø B Ø C	CB	$\frac{C}{T}$	$\frac{C}{T}$	CB	$\frac{C}{T}$	KVA LOAD	DESCRIPTION
(Ø) RECEPT	-	20A	1	1	2	20A	0.18	NEW RECEPT [1]
(Ø) RECEPT	-	20A	3	1	4	20A	0.18	NEW RECEPT [1] - Ø1-15
(Ø) RECEPT	-	20A	5	1	6	20A	0.18	NEW RECEPT [1] - Ø1-15
(Ø) RECEPT	-	20A	7	1	8	20A	0.09	NEW RECEPT [1] - Ø2-21
(Ø) RECEPT	-	20A	9	1	10	20A	0.10	NEW RECEPT [1] - Ø3-3
(Ø) RECEPT	-	20A	11	1	12	20A	0.00	NEW RECEPT [1] - Ø3-7
(Ø) RECEPT	-	20A	13	1	14	20A	0.00	NEW RECEPT [1] - Ø3-21
(Ø) RECEPT	-	20A	15	1	16	20A	0.18	NEW RECEPT [1] - Ø1-18
(Ø) RECEPT	-	20A	17	1	18	20A	1.23	NEW RECEPT [1] - Ø1-18
(Ø) RECEPT	-	20A	19	1	20	20A	1.2	NEW RECEPT [1] - Ø1-14
(Ø) RECEPT	-	20A	21	1	22	20A	0.18	NEW RECEPT [1] - Ø1-14
(Ø) RECEPT	-	20A	23	1	24	20A	0.18	NEW RECEPT [1] - Ø1-23
(Ø) RECEPT	-	20A	25	1	26	20A	0.18	NEW RECEPT [1] - Ø1-23A
(Ø) RECEPT	-	20A	27	1	28	20A	0.18	NEW RECEPT [1] - Ø1-18
(Ø) RECEPT	-	20A	29	1	30	20A	0.18	NEW RECEPT [1]
(Ø) RECEPT	-	20A	31	1	32	20A	0.18	NEW RECEPT [1]
(Ø) RECEPT	-	20A	33	1	34	20A	0.18	NEW RECEPT [1]
(Ø) RECEPT	-	20A	35	1	36	20A	0.30	NEW RECEPT [1]
(Ø) RECEPT	-	20A	37	1	38	20A	0.54	NEW RECEPT [1]
(Ø) RECEPT	-	20A	39	1	40	20A	0.50	NEW RAL-UP DOOR [1]
(Ø) RECEPT	-	20A	41	1	42	20A	0.54	NEW RECEPT [1]

TRIM STYLE: ☐ FLUSH ☐ SURFACE ☐ 225 A ☐ 400 A
BUS RATING: ☐ 100 A ☐ 200 A ☐ 250 A
Ø MAIN LUGS ONLY ☐ FEED-THROUGH LUGS ☐ SUB-FEED LUGS
Ø C - 3/16 IN. (0.0625)
Ø C - 3/8 IN. (0.125)
Ø C - 1/2 IN. (0.25)
Ø C - 5/8 IN. (0.3125)
Ø C - 3/4 IN. (0.375)
Ø C - 7/8 IN. (0.4375)
Ø C - 1 IN. (0.5)
Ø C - 1 1/8 IN. (0.625)
Ø C - 1 1/4 IN. (0.6875)
Ø C - 1 3/8 IN. (0.75)
Ø C - 1 1/2 IN. (0.875)
Ø C - 1 3/4 IN. (0.9375)
Ø C - 1 7/8 IN. (1.0)
Ø C - 2 IN. (1.0)
Ø C - 2 1/8 IN. (1.125)
Ø C - 2 1/4 IN. (1.1875)
Ø C - 2 3/8 IN. (1.25)
Ø C - 2 1/2 IN. (1.375)
Ø C - 2 3/4 IN. (1.4375)
Ø C - 2 7/8 IN. (1.5)
Ø C - 3 IN. (1.5)
Ø C - 3 1/8 IN. (1.625)
Ø C - 3 1/4 IN. (1.6875)
Ø C - 3 3/8 IN. (1.75)
Ø C - 3 1/2 IN. (1.875)
Ø C - 3 3/4 IN. (1.9375)
Ø C - 3 7/8 IN. (2.0)
Ø C - 4 IN. (2.0)
Ø C - 4 1/8 IN. (2.125)
Ø C - 4 1/4 IN. (2.1875)
Ø C - 4 3/8 IN. (2.25)
Ø C - 4 1/2 IN. (2.375)
Ø C - 4 3/4 IN. (2.4375)
Ø C - 4 7/8 IN. (2.5)
Ø C - 5 IN. (2.5)
Ø C - 5 1/8 IN. (2.625)
Ø C - 5 1/4 IN. (2.6875)
Ø C - 5 3/8 IN. (2.75)
Ø C - 5 1/2 IN. (2.875)
Ø C - 5 3/4 IN. (2.9375)
Ø C - 5 7/8 IN. (3.0)
Ø C - 6 IN. (3.0)
Ø C - 6 1/8 IN. (3.125)
Ø C - 6 1/4 IN. (3.1875)
Ø C - 6 3/8 IN. (3.25)
Ø C - 6 1/2 IN. (3.375)
Ø C - 6 3/4 IN. (3.4375)
Ø C - 6 7/8 IN. (3.5)
Ø C - 7 IN. (3.5)
Ø C - 7 1/8 IN. (3.625)
Ø C - 7 1/4 IN. (3.6875)
Ø C - 7 3/8 IN. (3.75)
Ø C - 7 1/2 IN. (3.875)
Ø C - 7 3/4 IN. (3.9375)
Ø C - 7 7/8 IN. (4.0)
Ø C - 8 IN. (4.0)
Ø C - 8 1/8 IN. (4.125)
Ø C - 8 1/4 IN. (4.1875)
Ø C - 8 3/8 IN. (4.25)
Ø C - 8 1/2 IN. (4.375)
Ø C - 8 3/4 IN. (4.4375)
Ø C - 8 7/8 IN. (4.5)
Ø C - 9 IN. (4.5)
Ø C - 9 1/8 IN. (4.625)
Ø C - 9 1/4 IN. (4.6875)
Ø C - 9 3/8 IN. (4.75)
Ø C - 9 1/2 IN. (4.875)
Ø C - 9 3/4 IN. (4.9375)
Ø C - 9 7/8 IN. (5.0)
Ø C - 10 IN. (5.0)
Ø C - 10 1/8 IN. (5.125)
Ø C - 10 1/4 IN. (5.1875)
Ø C - 10 3/8 IN. (5.25)
Ø C - 10 1/2 IN. (5.375)
Ø C - 10 3/4 IN. (5.4375)
Ø C - 10 7/8 IN. (5.5)
Ø C - 11 IN. (5.5)
Ø C - 11 1/8 IN. (5.625)
Ø C - 11 1/4 IN. (5.6875)
Ø C - 11 3/8 IN. (5.75)
Ø C - 11 1/2 IN. (5.875)
Ø C - 11 3/4 IN. (5.9375)
Ø C - 11 7/8 IN. (6.0)
Ø C - 12 IN. (6.0)
Ø C - 12 1/8 IN. (6.125)
Ø C - 12 1/4 IN. (6.1875)
Ø C - 12 3/8 IN. (6.25)
Ø C - 12 1/2 IN. (6.375)
Ø C - 12 3/4 IN. (6.4375)
Ø C - 12 7/8 IN. (6.5)
Ø C - 13 IN. (6.5)
Ø C - 13 1/8 IN. (6.625)
Ø C - 13 1/4 IN. (6.6875)
Ø C - 13 3/8 IN. (6.75)
Ø C - 13 1/2 IN. (6.875)
Ø C - 13 3/4 IN. (6.9375)
Ø C - 13 7/8 IN. (7.0)
Ø C - 14 IN. (7.0)
Ø C - 14 1/8 IN. (7.125)
Ø C - 14 1/4 IN. (7.1875)
Ø C - 14 3/8 IN. (7.25)
Ø C - 14 1/2 IN. (7.375)
Ø C - 14 3/4 IN. (7.4375)
Ø C - 14 7/8 IN. (7.5)
Ø C - 15 IN. (7.5)
Ø C - 15 1/8 IN. (7.625)
Ø C - 15 1/4 IN. (7.6875)
Ø C - 15 3/8 IN. (7.75)
Ø C - 15 1/2 IN. (7.875)
Ø C - 15 3/4 IN. (7.9375)
Ø C - 15 7/8 IN. (8.0)
Ø C - 16 IN. (8.0)
Ø C - 16 1/8 IN. (8.125)
Ø C - 16 1/4 IN. (8.1875)
Ø C - 16 3/8 IN. (8.25)
Ø C - 16 1/2 IN. (8.375)
Ø C - 16 3/4 IN. (8.4375)
Ø C - 16 7/8 IN. (8.5)
Ø C - 17 IN. (8.5)
Ø C - 17 1/8 IN. (8.625)
Ø C - 17 1/4 IN. (8.6875)
Ø C - 17 3/8 IN. (8.75)
Ø C - 17 1/2 IN. (8.875)
Ø C - 17 3/4 IN. (8.9375)
Ø C - 17 7/8 IN. (9.0)
Ø C - 18 IN. (9.0)
Ø C - 18 1/8 IN. (9.125)
Ø C - 18 1/4 IN. (9.1875)
Ø C - 18 3/8 IN. (9.25)
Ø C - 18 1/2 IN. (9.375)
Ø C - 18 3/4 IN. (9.4375)
Ø C - 18 7/8 IN. (9.5)
Ø C - 19 IN. (9.5)
Ø C - 19 1/8 IN. (9.625)
Ø C - 19 1/4 IN. (9.6875)
Ø C - 19 3/8 IN. (9.75)
Ø C - 19 1/2 IN. (9.875)
Ø C - 19 3/4 IN. (9.9375)
Ø C - 19 7/8 IN. (10.0)
Ø C - 20 IN. (10.0)
Ø C - 20 1/8 IN. (10.125)
Ø C - 20 1/4 IN. (10.1875)
Ø C - 20 3/8 IN. (10.25)
Ø C - 20 1/2 IN. (10.375)
Ø C - 20 3/4 IN. (10.4375)
Ø C - 20 7/8 IN. (10.5)
Ø C - 21 IN. (10.5)
Ø C - 21 1/8 IN. (10.625)
Ø C - 21 1/4 IN. (10.6875)
Ø C - 21 3/8 IN. (10.75)
Ø C - 21 1/2 IN. (10.875)
Ø C - 21 3/4 IN. (10.9375)
Ø C - 21 7/8 IN. (11.0)
Ø C - 22 IN. (11.0)
Ø C - 22 1/8 IN. (11.125)
Ø C - 22 1/4 IN. (11.1875)
Ø C - 22 3/8 IN. (11.25)
Ø C - 22 1/2 IN. (11.375)
Ø C - 22 3/4 IN. (11.4375)
Ø C - 22 7/8 IN. (11.5)
Ø C - 23 IN. (11.5)
Ø C - 23 1/8 IN. (11.625)
Ø C - 23 1/4 IN. (11.6875)
Ø C - 23 3/8 IN. (11.75)
Ø C - 23 1/2 IN. (11.875)
Ø C - 23 3/4 IN. (11.9375)
Ø C - 23 7/8 IN. (12.0)
Ø C - 24 IN. (12.0)
Ø C - 24 1/8 IN. (12.125)
Ø C - 24 1/4 IN. (12.1875)
Ø C - 24 3/8 IN. (12.25)
Ø C - 24 1/2 IN. (12.375)
Ø C - 24 3/4 IN. (12.4375)
Ø C - 24 7/8 IN. (12.5)
Ø C - 25 IN. (12.5)
Ø C - 25 1/8 IN. (12.625)
Ø C - 25 1/4 IN. (12.6875)
Ø C - 25 3/8 IN. (12.75)
Ø C - 25 1/2 IN. (12.875)
Ø C - 25 3/4 IN. (12.9375)
Ø C - 25 7/8 IN. (13.0)
Ø C - 26 IN. (13.0)
Ø C - 26 1/8 IN. (13.125)
Ø C - 26 1/4 IN. (13.1875)
Ø C - 26 3/8 IN. (13.25)
Ø C - 26 1/2 IN. (13.375)
Ø C - 26 3/4 IN. (13.4375)
Ø C - 26 7/8 IN. (13.5)
Ø C - 27 IN. (13.5)
Ø C - 27 1/8 IN. (13.625)
Ø C - 27 1/4 IN. (13.6875)
Ø C - 27 3/8 IN. (13.75)
Ø C - 27 1/2 IN. (13.875)
Ø C - 27 3/4 IN. (13.9375)
Ø C - 27 7/8 IN. (14.0)
Ø C - 28 IN. (14.0)
Ø C - 28 1/8 IN. (14.125)
Ø C - 28 1/4 IN. (14.1875)
Ø C - 28 3/8 IN. (14.25)
Ø C - 28 1/2 IN. (14.375)
Ø C - 28 3/4 IN. (14.4375)
Ø C - 28 7/8 IN. (14.5)
Ø C - 29 IN. (14.5)
Ø C - 29 1/8 IN. (14.625)
Ø C - 29 1/4 IN. (14.6875)
Ø C - 29 3/8 IN. (14.75)
Ø C - 29 1/2 IN. (14.875)
Ø C - 29 3/4 IN. (14.9375)
Ø C - 29 7/8 IN. (15.0)
Ø C - 30 IN. (15.0)
Ø C - 30 1/8 IN. (15.125)
Ø C - 30 1/4 IN. (15.1875)
Ø C - 30 3/8 IN. (15.25)
Ø C - 30 1/2 IN. (15.375)
Ø C - 30 3/4 IN. (15.4375)
Ø C - 30 7/8 IN. (15.5)
Ø C - 31 IN. (15.5)
Ø C - 31 1/8 IN. (15.625)
Ø C - 31 1/4 IN. (15.6875)
Ø C - 31 3/8 IN. (15.75)
Ø C - 31 1/2 IN. (15.875)
Ø C - 31 3/4 IN. (15.9375)
Ø C - 31 7/8 IN. (16.0)
Ø C - 32 IN. (16.0)
Ø C - 32 1/8 IN. (16.125)
Ø C - 32 1/4 IN. (16.1875)
Ø C - 32 3/8 IN. (16.25)
Ø C - 32 1/2 IN. (16.375)
Ø C - 32 3/4 IN. (16.4375)
Ø C - 32 7/8 IN. (16.5)
Ø C - 33 IN. (16.5)
Ø C - 33 1/8 IN. (16.625)
Ø C - 33 1/4 IN. (16.6875)
Ø C - 33 3/8 IN. (16.75)
Ø C - 33 1/2 IN. (16.875)
Ø C - 33 3/4 IN. (16.9375)
Ø C - 33 7/8 IN. (17.0)
Ø C - 34 IN. (17.0)
Ø C - 34 1/8 IN. (17.125)
Ø C - 34 1/4 IN. (17.1875)
Ø C - 34 3/8 IN. (17.25)
Ø C - 34 1/2 IN. (17.375)
Ø C - 34 3/4 IN. (17.4375)
Ø C - 34 7/8 IN. (17.5)
Ø C - 35 IN. (17.5)
Ø C - 35 1/8 IN. (17.625)
Ø C - 35 1/4 IN. (17.6875)
Ø C - 35 3/8 IN. (17.75)
Ø C - 35 1/2 IN. (17.875)
Ø C - 35 3/4 IN. (17.9375)
Ø C - 35 7/8 IN. (18.0)
Ø C - 36 IN. (18.0)
Ø C - 36 1/8 IN. (18.125)
Ø C - 36 1/4 IN. (18.1875)
Ø C - 36 3/8 IN. (18.25)
Ø C - 36 1/2 IN. (18.375)
Ø C - 36 3/4 IN. (18.4375)
Ø C - 36 7/8 IN. (18.5)
Ø C - 37 IN. (18.5)
Ø C - 37 1/8 IN. (18.625)
Ø C - 37 1/4 IN. (18.6875)
Ø C - 37 3/8 IN. (18.75)
Ø C - 37 1/2 IN. (18.875)
Ø C - 37 3/4 IN. (18.9375)
Ø C - 37 7/8 IN. (19.0)
Ø C - 38 IN. (19.0)
Ø C - 38 1/8 IN. (19.125)
Ø C - 38 1/4 IN. (19.1875)
Ø C - 38 3/8 IN. (19.25)
Ø C - 38 1/2 IN. (19.375)
Ø C - 38 3/4 IN. (19.4375)
Ø C - 38 7/8 IN. (19.5)
Ø C - 39 IN. (19.5)
Ø C - 39 1/8 IN. (19.625)
Ø C - 39 1/4 IN. (19.6875)
Ø C - 39 3/8 IN. (19.75)
Ø C - 39 1/2 IN. (19.875)
Ø C - 39 3/4 IN. (19.9375)
Ø C - 39 7/8 IN. (20.0)
Ø C - 40 IN. (20.0)
Ø C - 40 1/8 IN. (20.125)
Ø C - 40 1/4 IN. (20.1875)
Ø C - 40 3/8 IN. (20.25)
Ø C - 40 1/2 IN. (20.375)
Ø C - 40 3/4 IN. (20.4375)
Ø C - 40 7/8 IN. (20.5)
Ø C - 41 IN. (20.5)
Ø C - 41 1/8 IN. (20.625)
Ø C - 41 1/4 IN. (20.6875)
Ø C - 41 3/8 IN. (20.75)
Ø C - 41 1/2 IN. (20.875)
Ø C - 41 3/4 IN. (20.9375)
Ø C - 41 7/8 IN. (21.0)
Ø C - 42 IN. (21.0)
Ø C - 42 1/8 IN. (21.125)
Ø C - 42 1/4 IN. (21.1875)
Ø C - 42 3/8 IN. (21.25)
Ø C - 42 1/2 IN. (21.375)
Ø C - 42 3/4 IN. (21.4375)
Ø C - 42 7/8 IN. (21.5)
Ø C - 43 IN. (21.5)
Ø C - 43 1/8 IN. (21.625)
Ø C - 43 1/4 IN. (21.6875)
Ø C - 43 3/8 IN. (21.75)
Ø C - 43 1/2 IN. (21.875)
Ø C - 43 3/4 IN. (21.9375)
Ø C - 43 7/8 IN. (22.0)
Ø C - 44 IN. (22.0)
Ø C - 44 1/8 IN. (22.125)
Ø C - 44 1/4 IN. (22.1875)
Ø C - 44 3/8 IN. (22.25)
Ø C - 44 1/2 IN. (22.375)
Ø C - 44 3/4 IN. (22.4375)
Ø C - 44 7/8 IN. (22.5)
Ø C - 45 IN. (22.5)
Ø C - 45 1/8 IN. (22.625)
Ø C - 45 1/4 IN. (22.6875)
Ø C - 45 3/8 IN. (22.75)
Ø C - 45 1/2 IN. (22.875)
Ø C - 45 3/4 IN. (22.9375)
Ø C - 45 7/8 IN. (23.0)
Ø C - 46 IN. (23.0)
Ø C - 46 1/8 IN. (23.125)
Ø C - 46 1/4 IN. (23.1875)
Ø C - 46 3/8 IN. (23.25)
Ø C - 46 1/2 IN. (23.375)
Ø C - 46 3/4 IN. (23.4375)
Ø C - 46 7/8 IN. (23.5)
Ø C - 47 IN. (23.5)
Ø C - 47 1/8 IN. (23.625)
Ø C - 47 1/4 IN. (23.6875)
Ø C - 47 3/8 IN. (23.75)
Ø C - 47 1/2 IN. (23.875)
Ø C - 47 3/4 IN. (23.9375)
Ø C - 47 7/8 IN. (24.0)
Ø C - 48 IN. (24.0)
Ø C - 48 1/8 IN. (24.125)
Ø C - 48 1/4 IN. (24.1875)
Ø C - 48 3/8 IN. (24.25)
Ø C - 48 1/2 IN. (24.375)
Ø C - 48 3/4 IN. (24.4375)
Ø C - 48 7/8 IN. (24.5)
Ø C - 49 IN. (24.5)
Ø C - 49 1/8 IN. (24.625)
Ø C - 49 1/4 IN. (24.6875)
Ø C - 49 3/8 IN. (24.75)
Ø C - 49 1/2 IN. (24.875)
Ø C - 49 3/4 IN. (24.9375)
Ø C - 49 7/8 IN. (25.0)
Ø C - 50 IN. (25.0)
Ø C - 50 1/8 IN. (25.125)
Ø C - 50 1/4 IN. (25.1875)
Ø C - 50 3/8 IN. (25.25)
Ø C - 50 1/2 IN. (25.375)
Ø C - 50 3/4 IN. (25.4375)
Ø C - 50 7/8 IN. (25.5)
Ø C - 51 IN. (25.5)
Ø C - 51 1/8 IN. (25.625)
Ø C - 51 1/4 IN. (25.6875)
Ø C - 51 3/8 IN. (25.75)
Ø C - 51 1/2 IN. (25.875)
Ø C - 51 3/4 IN. (25.9375)
Ø C - 51 7/8 IN. (26.0)
Ø C - 52 IN. (26.0)
Ø C - 52 1/8 IN. (26.125)
Ø C - 52 1/4 IN. (26.1875)
Ø C - 52 3/8 IN. (26.25)
Ø C - 52 1/2 IN. (26.375)
Ø C - 52 3/4 IN. (26.4375)
Ø C - 52 7/8 IN. (26.5)
Ø C - 53 IN. (26.5)
Ø C - 53 1/8 IN. (26.625)
Ø C - 53 1/4 IN. (26.6875)
Ø C - 53 3/8 IN. (26.75)
Ø C - 53 1/2 IN. (26.875)
Ø C - 53 3/4 IN. (26.9375)
Ø C - 53 7/8 IN. (27.0)
Ø C - 54 IN. (27.0)
Ø C - 54 1/8 IN. (27.125)
Ø C - 54 1/4 IN. (27.1875)
Ø C - 54 3/8 IN. (27.25)
Ø C - 54 1/2 IN. (27.375)
Ø C - 54 3/4 IN. (27.4375)
Ø C - 54 7/8 IN. (27.5)
Ø C - 55 IN. (27.5)
Ø C - 55 1/8 IN. (27.625)
Ø C - 55 1/4 IN. (27.6875)
Ø C - 55 3/8 IN. (27.75)
Ø C - 55 1/2 IN. (27.875)
Ø C - 55 3/4 IN. (27.9375)
Ø C - 55 7/8 IN. (28.0)
Ø C - 56 IN. (28.0)
Ø C - 56 1/8 IN. (28.125)
Ø C - 56 1/4 IN. (28.1875)
Ø C - 56 3/8 IN. (28.25)
Ø C - 56 1/2 IN. (28.375)
Ø C - 56 3/4 IN. (28.4375)
Ø C - 56 7/8 IN. (28.5)
Ø C - 57 IN. (28.5)
Ø C - 57 1/8 IN. (28.625)
Ø C - 57 1/4 IN. (28.6875)
Ø C - 57 3/8 IN. (28.75)
Ø C - 57 1/2 IN. (28.875)
Ø C - 57 3/4 IN. (28.9375)
Ø C - 57 7/8 IN. (29.0)
Ø C - 58 IN. (29.0)
Ø C - 58 1/8 IN. (29.125)
Ø C - 58 1/4 IN. (29.1875)
Ø C - 58 3/8 IN. (29.25)
Ø C - 58 1/2 IN. (29.375)
Ø C - 58 3/4 IN. (29.4375)
Ø C - 58 7/8 IN. (29.5)
Ø C - 59 IN. (29.5)
Ø C - 59 1/8 IN. (29.625)
Ø C - 59 1/4 IN. (29.6875)
Ø C - 59 3/8 IN. (29.75)
Ø C - 59 1/2 IN. (29.875)
Ø C - 59 3/4 IN. (29.9375)
Ø C - 59 7/8 IN. (30.0)
Ø C - 60 IN. (30.0)
Ø C - 60 1/8 IN. (30.125)
Ø C - 60 1/4 IN. (30.1875)
Ø C - 60 3/8 IN. (30.25)
Ø C - 60 1/2 IN. (30.375)
Ø C - 60 3/4 IN. (30.4375)
Ø C - 60 7/8 IN. (30.5)
Ø C - 61 IN. (30.5)
Ø C - 61 1/8 IN. (30.625)
Ø C - 61 1/4 IN. (30.6875)
Ø C - 61 3/8 IN. (30.75)
Ø C - 61 1/2 IN. (30.875)
Ø C - 61 3/4 IN. (30.9375)
Ø C - 61 7/8 IN. (31.0)
Ø C - 62 IN. (31.0)
Ø C - 62 1/8 IN. (31.125)
Ø C - 62 1/4 IN. (31.1875)
Ø C - 62 3/8 IN. (31.25)
Ø C - 62 1/2 IN. (31.375)
Ø C - 62 3/4 IN. (31.4375)
Ø C - 62 7/8 IN. (31.5)
Ø C - 63 IN. (31.5)
Ø C - 63 1/8 IN. (31.625)
Ø C - 63 1/4 IN. (31.6875)
Ø C - 63 3/8 IN. (31.75)
Ø C - 63 1/2 IN. (31.875)
Ø C - 63 3/4 IN. (31.9375)
Ø C - 63 7/8 IN. (32.0)
Ø C - 64 IN. (32.0)
Ø C - 64 1/8 IN. (32.125)
Ø C - 64 1/4 IN. (32.1875)
Ø C - 64 3/8 IN. (32.25)
Ø C - 64 1/2 IN. (32.375)
Ø C - 64 3/4 IN. (32.4375)
Ø C - 64 7/8 IN. (32.5)
Ø C - 65 IN. (32.5)
Ø C - 65 1/8 IN. (32.625)
Ø C - 65 1/4 IN. (32.6875)
Ø C - 65 3/8 IN. (32.75)
Ø C - 65 1/2 IN. (32.875)
Ø C - 65 3/4 IN. (32.9375)
Ø C - 65 7/8 IN. (33.0)
Ø C - 66 IN. (33.0)
Ø C - 66 1/8 IN. (33.125)
Ø C - 66 1/4 IN. (33.1875)
Ø C - 66 3/8 IN. (33.25)
Ø C - 66 1/2 IN. (33.375)
Ø C - 66 3/4 IN. (33.4375)
Ø C - 66 7/8 IN. (33.5)
Ø C - 67 IN. (33.5)
Ø C - 67 1/8 IN. (33.625)
Ø C - 67 1/4 IN. (33.6875)
Ø C - 67 3/8 IN. (33.75)
Ø C - 67 1/2 IN. (33.875)
Ø C - 67 3/4 IN. (33.9375)
Ø C - 67 7/8 IN. (34.0)
Ø C - 68 IN. (34.0)
Ø C - 68 1/8 IN. (34.125)
Ø C - 68 1/4 IN. (34.1875)
Ø C - 68 3/8 IN. (34.25)
Ø C - 68 1/2 IN. (34.375)
Ø C - 68 3/4 IN. (34.4375)
Ø C - 68 7/8 IN. (34.5)
Ø C - 69 IN. (34.5)
Ø C - 69 1/8 IN. (34.625)
Ø C - 69 1/4 IN. (34.6875)
Ø C - 69 3/8 IN. (34.75)
Ø C - 69 1/2 IN. (34.875)
Ø C - 69 3/4 IN. (34.9375)
Ø C - 69 7/8 IN. (35.0)
Ø C - 70 IN. (35.0)
Ø C - 70 1/8 IN. (35.125)
Ø C - 7