LIGHTING FIXTURE SCHEDULE

FIXTURE MARK	LAMPS				CU @ RCR=1	DESCRIPTION
	NO.	WATTS	TYPE	LUMENS		
A	2	32	F32T8/ 3500K	2850	78	FLUORESCENT RECESSED STATIC LENSED LUMINAIRE, 2'X4' LAY-IN, FLAT STEEL DOOR, CAM LATCHES, CLEAR ACRYLIC PRISMATIC LENS. 277 VOLT
B	3	32	F32T8/ 3500K	2850	75	FLUORESCENT RECESSED STATIC LENSED LUMINAIRE, 2'X4' LAY-IN, FLAT STEEL DOOR, CAM LATCHES, CLEAR ACRYLIC PRISMATIC LENS. 277 VOLT
C	4	32	F32T8/ 3500K	2850	71	FLUORESCENT RECESSED STATIC LENSED LUMINAIRE, 2'X4' LAY-IN, FLAT STEEL DOOR, CAM LATCHES, CLEAR ACRYLIC PRISMATIC LENS. 277 VOLT
D	1	32	F32T8/ 3500K	2850	87	INDUSTRIAL FLUORESCENT FIXTURE WITH WITH 8 TO 15% UPLIGHT, 1 LAMP AND PENDANT MOUNTED SWIVEL STEM AND WIREGUARD, MOUNT 9'-0" A.F.F. IN MECH. ROOMS AND 8'-0" EVERYWHERE ELSE UNLESS NOTED OTHERWISE, 277 VOLT.
E	2	32	F32T8/ 3500K	2850	87	INDUSTRIAL FLUORESCENT FIXTURE WITH WITH 8 TO 15% UPLIGHT, 2 LAMP AND PENDANT MOUNTED SWIVEL STEM AND WIREGUARD, MOUNT 9'-0" A.F.F. IN MECH. ROOMS AND 8'-0" EVERYWHERE ELSE UNLESS NOTED OTHERWISE, 277 VOLT.
F	-	-	-	-	-	NOT USED
G	6	32	F32T8/ 4100K	2850	49	RECESSED STATIC FLUORESCENT SUPPLEMENTAL SURGERY TROFFER, 2'X4' FLANGE, ASYMMETRICAL/SYMMETRICAL RFI SHIELD LENS, LIGHT SEAL GASKETING. PROVIDE RFI SUPPRESSOR FOR EACH BALLAST. 277 VOLT
H	2	13	13W TWIN TUBE FLUOR.	900	-	RECESSED 8" ROUND DOWN-LIGHT WITH CLEAR REFLECTOR AND BLACK BAFFLE 277 VOLT LIGHT..
I	-	-	-	-	-	NOT USED
J	2	13	TWIN TUBE FLUOR. 3500K	900	61	DAMP LOCATION SQUARE RECESSED FLUORESCENT DOWNLIGHT 9.5" APERTURE, FLAT GLASS DIFFUSER 277 VOLT.
K	1	175	MVR 175/W MED	10350	-	EXTERIOR WALL MOUNTED METAL HALIDE FIXTURE. DIE-CAST ALUMINUM HOUSING, UL LISTED FOR WET LOCATIONS. VANDAL-RESISTANT LENSE, DARK BRONZE FINISH, INTEGRAL PHOTO CELL, 277 VOLT.
L	-	-	-	-	-	2', FLUORESCENT WALL BRACKET WITH UPLIGHT AND DOWNLIGHT MOUNTED ABOVE MIRROR OR 6'-6" AFF, 120V.
M	2	32	F32T8/ 3500K	2850	69	SURFACE MOUNTED, FLUORESCENT WRAP-AROUND FIXTURE. STEEL HOUSING, BAKED WHITE ENAMEL FINISH. 277 VOLT.
N	2	32	F32T8/ 3500K	2850	-	1'x4', RECESSED TROFFER WITH DEEP CELL PARABOLIC LOUVER, 4" DEEP MINIMUM. FULL FLOATING REVEAL, 277 VOLT. 18 - 1.75" CELLS.
O	2	32	F32T8/ 3500K	2850	-	FLUORESCENT RECESSED STATIC LENSED LUMINAIRE, 1'x4' LAY-IN, FLAT STEEL DODR, CAM LATCHES, CLEAR ACRYLIC PRISMATIC LENS, 277 VOLT.
P	2	32	F32T8/ 3500K	2850	-	FLUORESCENT SURFACE MOUNTED STATIC LENSED LUMINAIRE, 2'x4' LAY-IN, FLAT STEEL DOOR, CAM LATCHES, CLEAR ACRYLIC PRISMATIC LENS, 277 VOLT.
I	120 (APP. PER FACE)	-	LED	-	-	SURFACE MOUNTED, LIGHT EMITTING DIODE (LED) EXIT SIGN. SINGLE FACE, RED ILLUMINATION, ALUMINUM HOUSING, BRUSHED ALUMINUM FINISH, 277 VOLT.

FIXTURE SCHEDULE NOTES

1. ALL STRIP TYPE FIXTURES SHALL HAVE LAMP SOCKETS OF THE TYPE REQUIRING A FORCED MOVEMENT ALONG THE LONGITUDINAL AXIS OF THE LAMP FOR INSERTION AND REMOVAL OF THE LAMP.
2. ALL RECESSED FIXTURES SHALL BE COMPLETE WITH APPROPRIATE FRAME FOR THE CEILING TYPE IN WHICH IT SHALL BE INSTALLED. A PARTICULAR FIXTURE MARK MAY BE SHOWN IN MORE THAN ONE TYPE CEILING. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH CEILING TYPES.
3. LOCATE FIXTURES IN MECHANICAL, COMMUNICATIONS, AND ELECTRICAL ROOMS TO AVOID EQUIPMENT AND PROVIDE EFFICIENT LIGHTING FOR THE TASK INVOLVED.
4. EXACT LOCATION OF FIXTURES SHALL BE AS SHOWN ON REFLECTED CEILING PLANS.
5. MOUNTING HEIGHT OF FIXTURES SHALL BE AS SHOWN IN THE FIXTURE SCHEDULE UNLESS NOTED OTHERWISE.

DRAWN BY: FRM
REVIEW BY: KEA
ENG. DIV. DIR.: DATE:
SATISFACTORY TO: DATE:

DATE	REVISION DESCRIPTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVY PUBLIC WORKS CENTER, JACKSONVILLE, FL
U.S. NAVAL STATION ROOSEVELT ROADS, P.R.
REPAIRS TO NAVAL HOSPITAL
LIGHTING FIXTURE SCHEDULE & NOTES

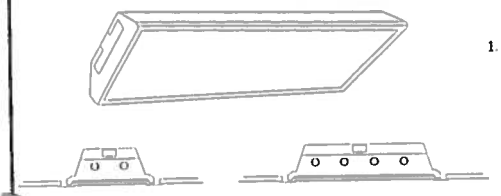
SHERLOCK, SMITH & ADAMS, INC.
ARCHITECTS - ENGINEERS
MONTGOMERY, ALABAMA

U.S. NAVAL STATION ROOSEVELT ROADS, P.R.
REPAIRS TO NAVAL HOSPITAL
LIGHTING FIXTURE SCHEDULE & NOTES

CONSTR. CONTR. NO.	SPECIFICATION NO.	NAVFAC DRWG. NO.	TF NO. XXXXX
XXXXX	XXXXX	XXXXX	SHEET ? OF ??

PLATE NO. EL4-

PWC # XXXXX



LUMINAIRE REQUIREMENTS

1. HOUSING SHALL BE 0.026" MIN. THICKNESS. HEIGHT SHALL BE 4" MIN. AND SHALL NOT PERMANENTLY DEFORM WHEN LIFTED BY ONE CORNER WITH LENS DOOR IN PLACE NOR WITH LENS DOOR REMOVED. LENS DOOR SHALL NOT OPEN WHEN LUMINAIRE IS LIFTED BY ONE CORNER. LUMINAIRE SHALL HAVE LESS THAN THE FOLLOWING DEFLECTION WHEN LIFTED BY ONE CORNER WITH LENS DOOR REMOVED.

TYPE:	A	B	C, D, E & F
	3"	2 1/2"	4"

2. HOUSING SHALL BE CHEMICALLY TREATED FOR RUST PREVENTION AND HAVE BAKED WHITE ENAMEL FINISH 85% MIN. REFLECTANCE (INTERIOR). PAINT ENTIRE HOUSING AND LENS DOOR WHITE, AFTER FABRICATION. HOUSING SHALL HAVE INTERNAL GREEN GROUNDING SCREW.
3. LATCHES SHALL BE A 0.030" MINIMUM THICKNESS STEEL OR 0.015" MINIMUM THICKNESS SPRING STEEL.
4. LENS DOOR SHALL BE 0.023" MINIMUM THICKNESS STEEL, SHALL BE ASSEMBLED WITH SCREWS (FOR LENS REPLACEMENT). PROVIDE LIGHT TIGHT FIT WITHOUT MOVABLE BAFFLES. GASKETING SHALL NOT BE A MEANS OF ACHIEVING LIGHT TIGHT DOOR.
5. LENS SHALL BE 0.156", PATTERN 19 (FOR TYPES A, C, D, E, F) AND 0.125", PATTERN 12 (FOR TYPE B) PLUS OR MINUS 10% OVERALL (0.09 MAX. PRISM PENETRATION) CLEAR PRISMATIC 100% ACRYLIC.
6. DOOR SHALL BE CAPABLE OF HINGING AND LATCHING FROM EITHER SIDE OF LUMINAIRE. PROVIDE SAFETY TYPE HINGES.
7. BALLAST SHALL BE HIGH POWER FACTOR (≥ .95) INSTANT START CLASS P ELECTRONIC BALLAST WITH SOUND RATING OF "A". SECURE BALLAST TO HOUSING WITH AT LEAST ONE SCREW AND SLIP-ON BRACKET OR 2 SCREWS ONE AT EACH END.
8. PHOTOMETRICS: MINIMUM COEFFICIENT OF UTILIZATION (CU) FOR THE FOLLOWING CAVITY REFLECTANCES: CEILING = 80% WALL = 50% FLOOR = 20%
   LUMINANCE USING 3150L LAMP WITH AVG:MAX RATIO NOT TO EXCEED 1.5

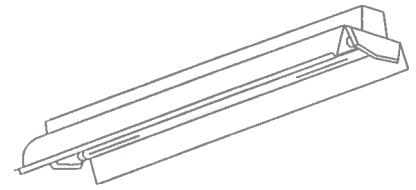
ROOM CAVITY RATIO	TYPE: CU	A	B	C	D	E	AVG. LUMINANCE (FL)
1		0.67	0.59	0.71	0.66	0.67	45 = 2250
2		0.60	0.53	0.65	0.60	0.59	55 = 1605
3		0.54	0.48	0.57	0.54	0.53	65 = 1125
4		0.49	0.44	0.51	0.48	0.47	75 = 750
MIN. S/MH		1.2	1.1	1.3	1.3	1.3	85 = 495

9. PROVIDE MOUNTING HARDWARE COMPATIBLE WITH CEILING MATERIAL IN WHICH LUMINAIRE IS TO BE INSTALLED.

TYPE A - 2'X2' 2 F40/T5 LONG TWIN TUBE LAMPS
D → TYPE B - 1'X4' 2 F32/T8 LAMPS
A → TYPE C - 2'X4' 2 F32/T8 LAMPS
B → TYPE D - 2'X4' 3 F32/T8 LAMPS
C → TYPE E - 2'X4' 4 F32/T8 LAMPS

FLUORESCENT TROFFER LUMINAIRE LENS TYPE

TYPE: A, B, C, D



LUMINAIRE REQUIREMENTS

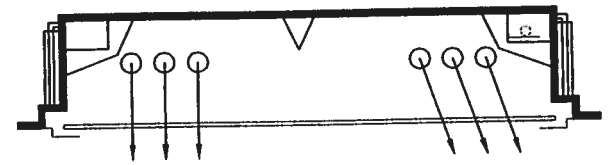
1. HOUSING SHALL BE 0.026" MINIMUM THICKNESS DIE FORMED COLD ROLLED STEEL, CHEMICALLY TREATED FOR RUST PREVENTION AND FINISHED WITH WHITE BAKED ENAMEL OR POLYESTER FINISH. PROVIDE TOP AND END KNOCKOUTS IN FIXTURE AND METAL END PLATES.
2. HOUSING WELDED OR SECURED BY SCREWS, RIVETS OR SNAP TOGETHER TABS AND SLOTS, INTO A SINGLE ASSEMBLY. PROVIDE INTERNAL GREEN GROUNDING SCREW.
3. REFLECTOR SHALL BE 0.019" MINIMUM THICKNESS STEEL (SOLID WHEN LUMINAIRE IS MOUNTED BELOW CATWALKS, ETC. 10-20% APERTURES WHEN PROTECTED FROM FALLING OBJECTS.) PROVIDE 30° SHIELDING CENTER VEE. CHEMICALLY TREAT FOR RUST PREVENTION AND FINISH WITH WHITE BAKED ENAMEL, PORCELAIN ENAMEL, OR POLYESTER FINISH. MINIMUM REFLECTANCE SHALL BE 85%.
4. THE LUMINAIRE SHALL NOT PERMANENTLY DEFORM WHEN LIFTED BY ONE CORNER.
5. SPACING TO MOUNTING HEIGHT RATIO = 1.3
6. LUMINAIRE SHALL BE CAPABLE OF CONTINUOUS ROW AND SINGLE UNIT PLACEMENT WITH PENDANT OR SURFACE MOUNTING.
7. BALLAST SHALL BE HIGH POWER FACTOR (≥ .95) INSTANT START CLASS P ELECTRONIC BALLAST WITH A SOUND RATING OF "A".

E → TYPE A - 2 F32/T8 LAMPS
D → TYPE B - 1 F32/T8 LAMP

OPTIONS
1. WIRE GUARD

INDUSTRIAL FLUORESCENT

TYPE: E, D



RECESSED, 6-LAMP FLUORESCENT SURGICAL LIGHTING TROFFER WITH DIFFUSER SHIELDING GRID. 2'x4' IN SIZE AND APPROXIMATELY 4-⅜" DEEP.

HOUSING: 20 GUAGE COLD ROLLED STEEL WITH WELDED OVERLAP HOUSING TO MINIMIZE RADIO FREQUENCY INTERFERENCE. SPRING OPERATED CLOSURE CATCHES. ADJUSTABLE SWAY HANGER.

REFLECTOR: HOUSING, WIREWAY COVER, SEPARABLE REFLECTOR, OR COMBINATION THEREOF, WIREWAY CONER OR SEPARABLE REFLECTOR MINIMUM 0.029" THICK STEEL OF 0.040" THICK ALUMINUM.

LENS: SYMMETRIC/ASYMMETRIC ACRYLIC DIFFUSER WITH RADIO FREQUENCY INTERFERENCE SHIELDING. LOW GLARE AND LIGHT SEAL GASKETING.

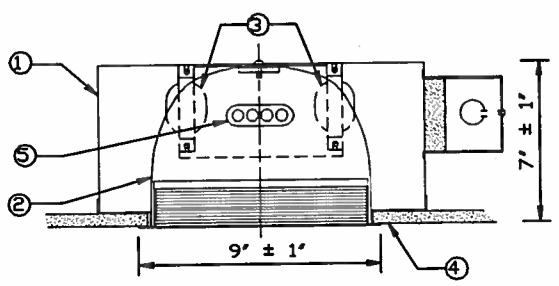
FINISHES: HOUSING, DOOR AND TRIM FRAME - BONDERIZED WHITE WITH BAKED ENAMEL, REFLECTING SURFACES MINIMUM OF 85%. REFLECTANCE BARED WHITE ENAMEL.

LAMPS: SIX - 32 WATT T8 FLUORESCENT LAMPS.

BALLASTS: THREE - TWO LAMP, HIGH POWER FACTOR, RADIO START BALLASTS, 277V.

DETAIL-FIXTURE SUPPLEMENTAL SURGERY TROFFER

TYPE: G



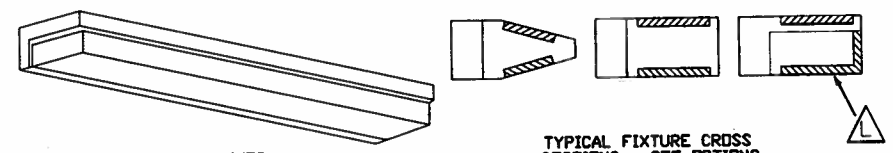
LUMINAIRE REQUIREMENTS

1. HOUSING - ALUMINUM OR STEEL W/BAKED ENAMEL FINISH. (12' X 12' ±1') PROVIDE INTERNAL GREEN GROUNDING SCREW.
2. REFLECTOR-SPECULAR ALUMINUM.
3. HIGH POWER FACTOR (≥ .9) ELECTROMAGNETIC BALLAST.
4. TRIM FLANGE-WHITE ACRYLIC PAINT OR ALUMINUM.
5. LAMPS-COMPACT FLUORESCENT, SIZE AS INDICATED.
6. MINIMUM FIXTURE EFFICIENCY-65%.
7. SPACING TO MOUNTING HEIGHT RATIO-1.1
8. FIXTURE SHALL BE UL LISTED.

TYPE A - 2 F9/T4 TWIN TUBE COMPACT FLUOR. LAMPS.
H → TYPE B - 2 F13/T4 TWIN TUBE COMPACT FLUOR. LAMPS.

RECESSED ROUND, OPEN BOTTOM MULTIGROUND COMPACT FLUORESCENT

TYPE: H



TYPICAL FIXTURE CROSS SECTIONS - SEE OPTIONS.

LUMINAIRE REQUIREMENTS

1. 0.032" MINIMUM THICKNESS STEEL BACK PLATE AND REFLECTOR. CHEMICAL TREATMENT FOR RUST PREVENTION. BAKED WHITE ENAMEL FINISH. PROVIDE KNOCKOUTS THROUGH BACK PLATE. HOUSING SHALL HAVE INTERNAL GREEN GROUNDING SCREW.
2. 0.032" MINIMUM THICKNESS DIE FORMED STEEL OR EXTRUDED ALUMINUM HOUSING. BAKED BLACK ENAMEL OR BRUSHED ALUMINUM FINISH OR WOOD GRAIN VINYL ON ALUMINUM HOUSING, UNLESS INDICATED OTHERWISE. STEEL HOUSING SHALL HAVE ALL JOINTS WELDED AND GROUND SMOOTH. HOUSING SHALL BE PAINTED AFTER FABRICATION.
3. MAXIMUM OVERALL LUMINAIRE HEIGHT SHALL BE 5-1/2 INCHES. MAXIMUM LUMINAIRE DEPTH SHALL BE 8 INCHES. MAXIMUM LUMINAIRE LENGTH SHALL BE:
   L → TYPE A - 26 INCHES
   TYPE B - 50 INCHES
4. LOWER LENS SHALL BE CLEAR SINGLE PIECE 100% ACRYLIC HAVING AN OVERALL NOMINAL THICKNESS OF 0.110 INCHES PLUS OR MINUS 10%. UPLIGHT LENS SHALL BE 100% ACRYLIC WITH A MINIMUM OF 0.09 INCHES OVERALL THICKNESS.
5. LENS SHALL BE PRISMATIC (TO REDIRECT LIGHT, PREVENTING DIRECT GLARE AT HIGH VIEWING ANGLES) OR LUMINAIRE SHALL HAVE OPAQUE FRONT.
6. LENS SHALL HAVE SPRING STEEL LATCHES FOR RETAINING LENS, OR POSITIVE MEANS OF HOLDING LENS IN PLACE.
7. LUMINAIRE SHALL PROVIDE UP AND DOWN LIGHT. UP LIGHT SHALL BE SEPARATELY SWITCHED WHERE INDICATED. LAMPS SHALL BE ENCLOSED ON TOP AND BOTTOM.
8. BALLAST SHALL BE HIGH POWER FACTOR (≥ .95) INSTANT START CLASS P ELECTRONIC BALLAST WITH SOUND RATING OF "A". SECURE BALLASTS TO HOUSING WITH AT LEAST ONE SCREW AND SLIP-ON BRACKET OR 2 SCREWS - ONE AT EACH END.
9. WHERE LUMINAIRE REQUIRES SEPARATELY SWITCHED UP LIGHT, LUMINAIRE SHALL HAVE 2 BALLASTS AND METAL BAFFLE BETWEEN LAMPS.

L → TYPE A - 2 F17/T8 LAMPS
TYPE B - 2 F32/T8 LAMPS

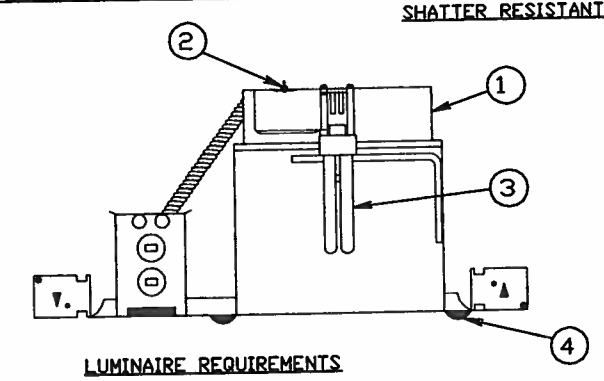
OPTIONS
1. UP AND DOWN LIGHT ← L
2. UP AND OR DOWN LIGHT (SEE NOTE 9)
3. DOWN LIGHT ONLY (SOLID TOP REQ'D)

RECESSED SHOWER LIGHT

TYPE: L

J → TYPE A FLAT GLASS DIFFUSER

TYPE B DROP OPAL ACRYLIC SHATTER RESISTANT DIFFUSER



LUMINAIRE REQUIREMENTS

1. PAINTED STEEL-HOUSING--APPROX. 8" DIA. X 8" HIGH. PROVIDE INTERNAL GREEN GROUNDING SCREW.
2. HIGH POWER FACTOR (≥ .9) ELECTROMAGNETIC BALLAST.
3. F13/T4 DOUBLE TWIN TUBE COMPACT FLUORESCENT LAMP.
4. FACE TRIM - SATIN ALUMINUM OR MATTE WHITE ENAMEL (GASKETED) AS INDICATED IN SCHEDULE.
5. FIXTURE SHALL BE UL LISTED FOR DAMP LOCATIONS.
6. DIFFUSER 8" O.D. ± 1".

WALL-MOUNTED FLUORESCENT

TYPE: J

SHERLOCK, SMITH & ADAMS, INC.
ARCHITECTS - ENGINEERS
MONTGOMERY, ALABAMA

U.S. NAVAL STATION ROOSEVELT ROADS, P.R.
REPAIRS TO NAVAL HOSPITAL
LIGHT FIXTURE DETAILS

CONSTR. CONTR. NO.	SPECIFICATION NO.	NAVFAC DRWG. NO.	TF NO. XXXXX
XXXXX	XXXXX	XXXXX	SHEET ? OF ??

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVY PUBLIC WORKS CENTER, JACKSONVILLE, FL
U.S. NAVAL STATION ROOSEVELT ROADS, P.R.
REPAIRS TO NAVAL HOSPITAL
LIGHT FIXTURE DETAILS

PLATE NO. EL4-2

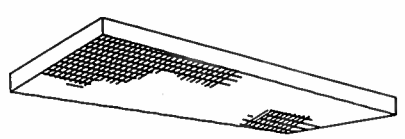
PWC # XXXXX

REVISION DESCRIPTION	DATE
ENG. DIV. DIR.:	DATE:
SUPERVISOR TO:	DATE:

DESIGN BY: F.A. DRAWN BY: CBN

EXTERIOR WALL MOUNTED HID

TYPE: K



LUMINAIRE REQUIREMENTS

1. 0.032" MINIMUM THICKNESS STEEL HOUSING WITH CORNERS WELDED. ALL 4 SIDES SHALL BE SOLID STEEL WITHOUT HOLES OR PANELS. 4-1/2" MAXIMUM FIXTURE HEIGHT. FINISH WITH RUST INHIBITOR AND BAKED WHITE ENAMEL. HOUSING SHALL BE PAINTED AFTER FABRICATION. PROVIDE INTERNAL GREEN GROUNDING SCREW.
2. 0.032" MINIMUM THICKNESS STEEL OR ALUMINUM DOOR HELD TOGETHER BY SCREWS (FOR LENS REPLACEMENT). THE DOOR SHALL BE LIGHT TIGHT WITHOUT RELYING ON GASKETS. DOORS SHALL BE HELD IN PLACE BY 2 "T" TYPE HINGES AND 2 SLOT HEAD, CAPTIVE SCREWS.
3. LENS SHALL BE 0.156" PLUS OR MINUS 10% OVERALL (0.09 MAXIMUM PRISM PENETRATION) CLEAR PRISMATIC 100% ACRYLIC.
4. BALLAST SHALL BE HIGH POWER FACTOR (≥ .95) INSTANT START CLASS P ELECTRONIC BALLAST WITH SOUND RATING OF "A". SECURE BALLAST TO HOUSING WITH AT LEAST ONE SCREW AND SLIP-ON BRACKET OR 2 SCREWS (ONE AT EACH END).

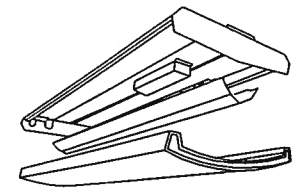
TYPE A - 2' X 2' 2 F40/T5 LONG TWIN TUBE LAMPS
TYPE B - 1' X 4' 2 F32/T8 LAMPS
TYPE C - 2' X 4' 2 F32/T8 LAMPS
TYPE D - 2' X 4' 3 F32/T8 LAMPS
TYPE E - 2' X 4' 4 F32/T8 LAMPS

STEEL SIDED SURFACE FLUORESCENT

SKETCH DATE	MAY 1994	STYLE	NL-12

STEEL SIDED SURFACE FLUORESCENT

TYPE: X



LUMINAIRE REQUIREMENTS

1. 0.026" MIN. THICKNESS FORMED STEEL HOUSING. CHEMICAL TREATMENT FOR RUST PREVENTION. BAKED WHITE ENAMEL FINISH. 85% MIN. REFLECTANCE (INTERIOR). ENTIRE HOUSING SHALL BE PAINTED WHITE. HOUSING SHALL NOT DEFLECT MORE THAN THE FOLLOWING WHEN LIFTED BY ONE CORNER:

TYPE:	A	B	C
	1/2"	1"	2"

2. SECURE HOUSING ENDS BY RIVETS OR SCREWS. HOUSING SHALL HAVE INTERNAL GREEN GROUNDING SCREW.
3. OVERALL LUMINAIRE NOMINAL DIMENSIONS (± 3/4") SHALL BE:

TYPE	LENGTH	WIDTH	DEPTH
A	48"	7"	4 1/2"
B	48"	10"	3 1/2"
C	48"	15"	3 1/2"

4. LENS SHALL BE CLEAR EXTRUDED PRISMATIC 100% ACRYLIC HAVING A MINIMUM OVERALL (BOTTOM OF LENS) THICKNESS OF 0.10 INCHES WITH A MAXIMUM PRISM PENETRATION DEPTH OF 0.07 INCHES (0.055 INCH MINIMUM OVERALL SIDE THICKNESS) AND SONICALLY WELDED END PLATES TO FORM A SINGLE PIECE, 5-SIDED BASKET. SNAP ON ENDS NOT ACCEPTABLE.
5. LENS SHALL HINGE ALONG ENTIRE LENGTH OF FIXTURE (LIFT AND SHIFT TYPE). LENS SHALL BE CAPABLE OF HINGING FROM BOTH SIDES OF FIXTURE.
6. BALLAST: HIGH POWER FACTOR (≥ .95) INSTANT START CLASS P ELECTRONIC BALLAST WITH SOUND RATING OF "A". SECURE BALLAST TO HOUSING WITH AT LEAST ONE SCREW AND SLIP-ON BRACKET OR 2 SCREWS - ONE AT EACH END.
7. PHOTOMETRICS: MINIMUM COEFFICIENT OF UTILIZATION (CU) FOR THE FOLLOWING CAVITY REFLECTANCES: CEILING = 80% WALL = 50% FLOOR = 20% LUMINANCE USING 3150L LAMP WITH AVG/MAX. RATIO NOT TO EXCEED 1.5.

ROOM CAVITY RATIO		TYPE A	TYPE B	TYPE C
1	CU =	0.76	0.69	0.67
2		0.66	0.62	0.60
3		0.59	0.55	0.54
4		0.52	0.49	0.48

8. SPACING TO MOUNTING HEIGHT RATIO SHALL BE NOT LESS THAN 1.3

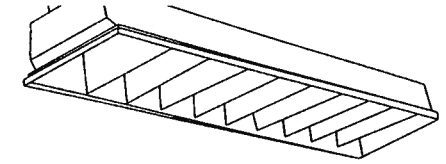
TYPE A - 1 F32/T8 LAMP
TYPE B - 2 F32/T8 LAMPS
TYPE C - 4 F32/T8 LAMPS

SURFACE MOUNTED WRAP-AROUND LUMINAIRE
FOR STANDARD OFFICE AND OTHER TYPE SPACES

SKETCH DATE	MAY 1994	STYLE	NL-2

SURFACE MOUNTED WRAP-AROUND

TYPE: M



LUMINAIRE REQUIREMENTS

1. HOUSING SHALL BE MINIMUM 0.026" THICK STEEL. HOUSING SHALL BE CHEMICALLY TREATED FOR RUST PREVENTION AND PAINT ADHESION. ENDS SHALL BE SECURED WITH SCREWS OR WELDED. HOUSING SHALL BE COMPLETELY PAINTED AFTER FABRICATION WITH MINIMUM 85% REFLECTANCE WHITE ENAMEL. MINIMUM DEPTH OF HOUSING 7" ± 1". MINIMUM DEPTH OF LOUVER SHALL BE 3".
2. LUMINAIRE SHALL HAVE FULL MATTE BLACK REVEAL. FOR FLOATING DOOR EFFECT. PROVIDE MOUNTING TRIM AND HARDWARE COMPATIBLE WITH CEILING MATERIAL.
3. LUMINAIRE SHALL BE HIGH EFFICIENCY, LOW BRIGHTNESS TYPE WITH INTERLOCKED LOUVERS CONTOURED TO A PARABOLIC SHAPE. LOUVERS SHALL BE OF MINIMUM .0235" SEMI-SPECULAR ANODIZED ALUMINUM, IN NATURAL OR GOLD FINISH AS INDICATED.
4. FIXTURE HOUSING SHALL HAVE INTERNAL GREEN GROUNDING SCREW.
5. NO EXPOSED INTERNAL WIRING.
6. BALLAST SHALL BE HIGH POWER FACTOR (≥ .95) INSTANT START CLASS P ELECTRONIC BALLAST WITH SOUND RATING OF "A". SECURE BALLAST TO HOUSING WITH AT LEAST ONE SCREW AND SLIP-ON BRACKET OR 2 SCREWS, ONE AT EACH END.
7. LOUVER SHALL BE SUITABLE FOR HINGING FROM EITHER SIDE AND SHALL HAVE TWO SAFETY HINGES AND TWO SPRING LOADED LATCHES OR FOUR SPRING LOADED LATCHES.

TYPE A - 1 F32/T8 LAMP - 6, 8, 9, 12, 16 OR 18 CELLS

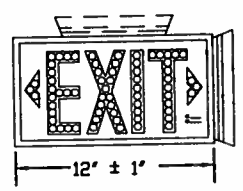
TYPE B - 2 F32/T8 LAMPS - 6, 8, 9, 12, 16 OR 18 CELLS

TYPE C - 1 F32/T8 LAMP - 12, 16, 18 OR 20 CELLS (2 ROWS)

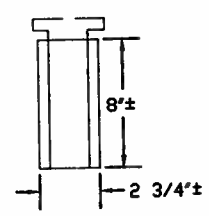
N → TYPE D - 2 F32/T8 LAMPS - 12, 16, 18 OR 20 CELLS (2 ROWS)

PARABOLIC TROFFER

TYPE: N



FRONT VIEW



END VIEW

NOTES:

1. UNIT NOT AVAILABLE WITH WET LABEL.
2. UNIT IS AVAILABLE WITH DAMP LABEL.

LUMINAIRE REQUIREMENTS

1. ALUMINUM, STEEL, THERMOPLASTIC OR POLYCARBONATE HOUSING.
2. BRUSHED ALUMINUM, THERMOPLASTIC OR STEEL STENCIL WITH LETTERS 6 INCHES TALL AND 3/4" WIDE STROKES AND PUNCH-OUT FACE, FOR LED'S OR INTERNAL LED ILLUMINATION.
3. RED ILLUMINATION PROVIDED BY LIGHT EMITTING DIODES (LED). APPROXIMATELY 120 LED'S PER FACE. (THIS QUANTITY DOES NOT APPLY TO INTERNALLY ILLUMINATED SIGNS.)
4. CLEAR PROTECTIVE NON-BREAKABLE LENS TO PROTECT LED'S. (NOT REQUIRED FOR INTERNALLY ILLUMINATED SIGNS.)
5. PROVIDE POWER FAILURE, BROWN OUT PROTECTION AND SURGE PROTECTION.
6. PROVIDE NI-CAD BATTERY POWER AND SOLID STATE TYPE CHARGER.
7. PROVIDE UNIVERSAL ARROWS AND BLANK OFF PLATES.
8. PROVIDE SINGLE OR DOUBLE FACE AS INDICATED ON PLANS.
9. PROVIDE UNIVERSAL MOUNTING.
10. UNITS MOUNTED EXPOSED TO THE ELEMENTS OR IN CLASSIFIED AREAS SHALL HAVE UL LABEL AS INDICATED.
11. PROVIDE INTERNAL GREEN GROUNDING SCREW.
12. PROVIDE TEST BUTTON IN BOTTOM OF HOUSING.
13. PROVIDE INDICTOR LIGHTS IN FACE TO INDICATE WHEN UNIT IS ON NORMAL POWER OR ON BATTERY POWER.
14. HOUSING SHALL HAVE A MATTE BLACK FINISH, EXCEPT AS SPECIFIED OTHERWISE.

LIGHT EMITTING DIODE EXIT SIGN

SKETCH DATE	MAY 1994	STYLE	NL-61

LIGHT EMITTING DIODE EXIT SIGN

TYPE: P

SHERLOCK, SMITH & ADAMS, INC.
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MONTGOMERY, ALABAMA

U.S. NAVAL STATION ROOSEVELT ROADS, P.R.
REPAIRS TO NAVAL HOSPITAL
LIGHT FIXTURE DETAILS

CONSTR. CONTR. NO.	SPECIFICATION NO.	NAVFAC DRWG. NO.	TF NO. XXXXX
XXXXX	XXXXX	XXXXX	SHEET ? OF ??

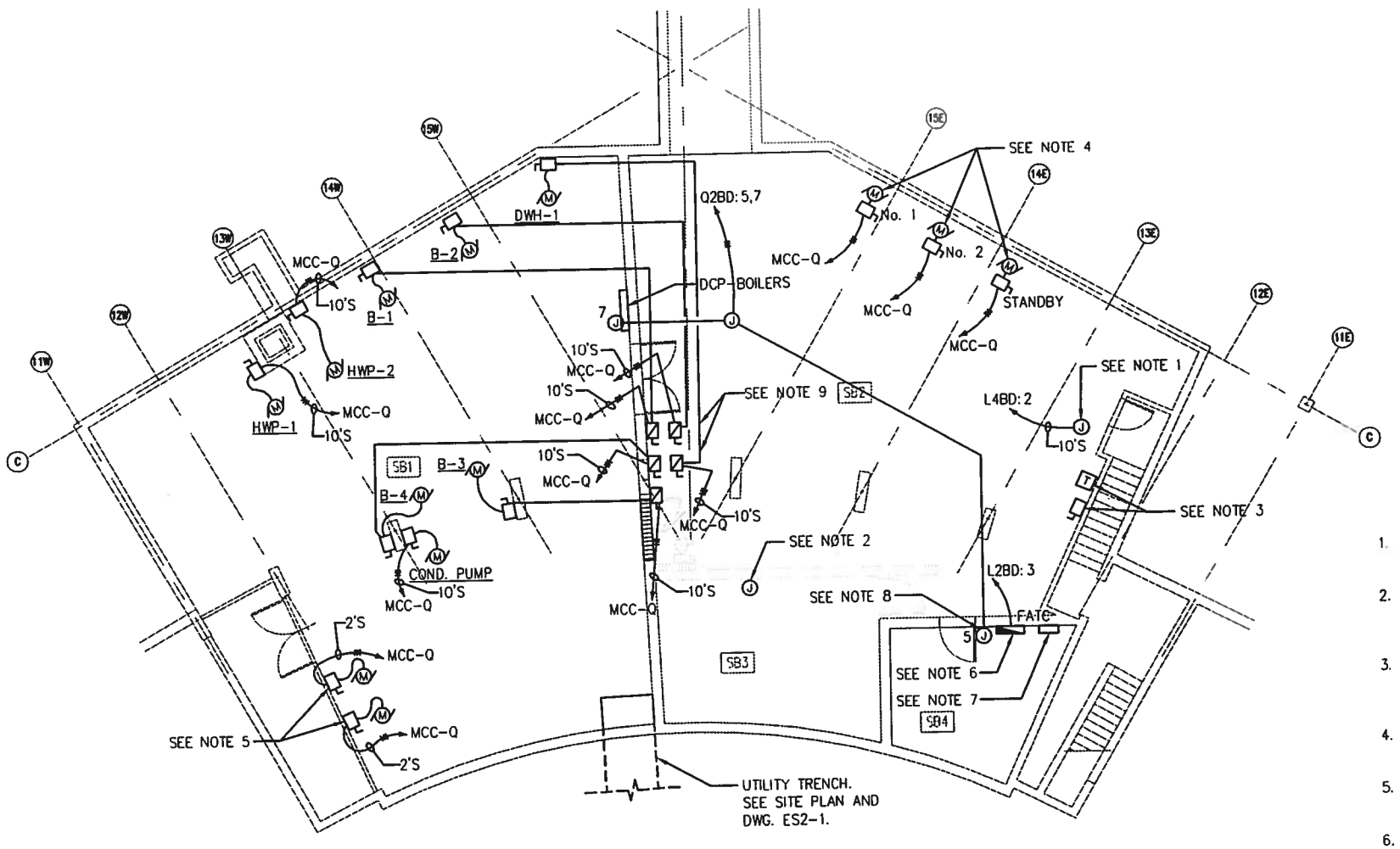
PLATE NO. EL4-

PWC # XXXXX

REVISION DESCRIPTION	DATE
ENG. DIV. DIR.:	
SATISFACTORY TO:	

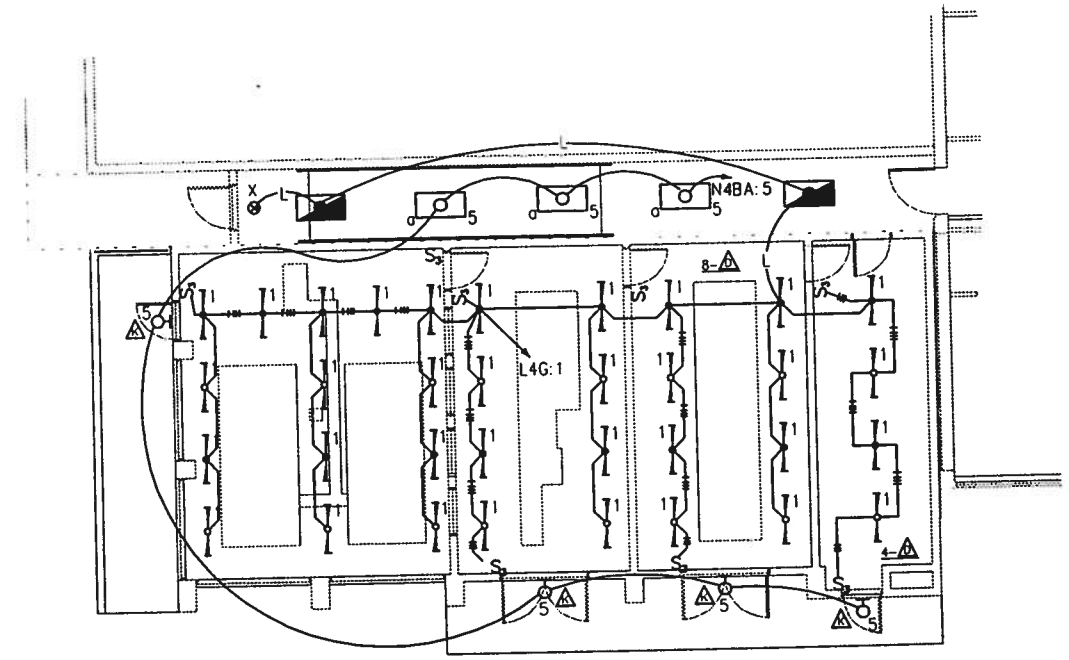
DRAWN BY: CBN
DESIGN BY: JEA

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVY PUBLIC WORKS CENTER, JACKSONVILLE, FL
U.S. NAVAL STATION ROOSEVELT ROADS, P.R.
REPAIRS TO NAVAL HOSPITAL
LIGHT FIXTURE DETAILS



FLOOR PLAN - SUB-BASEMENT FLOOR

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



GENERATOR BUILDING ELECTRICAL ROOM ELECTRICAL LAYOUT

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

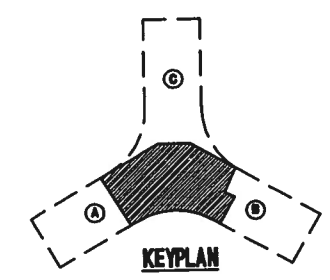
NOTE: SEE SHEET EP5-1 FOR POWER AND COMMUNICATIONS LAYOUT.

KEYED NOTES:

1. APPROXIMATE LOCATION FOR HOMERUN LP-SE:10(EXISTING). RE-CIRCUIT TO L4BD:2.
2. RE-CIRCUIT 3-#2/0 THW FEEDER FROM EXISTING FIRE PUMP MAIN DISCONNECT SWITCH TO SWITCHGEAR "GS". EXISTING DISCONNECT SWITCH IS BEING REMOVED SEE SHEET ED2-1.
3. NEW LOCATION FOR EXISTING TRANSFORMER TR-FA, EXISTING TRANSFER SWITCH, EXISTING 60A/3P DISCONNECT SWITCH AND F.A. FAN SHUTDOWN RELAYS.
4. EXISTING CHILLED WATER PUMPS AND DISCONNECT SWITCHES. PROVIDE NEW FEEDERS AS INDICATED.
5. EXISTING AIR COMPRESSORS AND DISCONNECT SWITCHES. PROVIDE NEW FEEDERS AS INDICATED.
6. NEW FIRE ALARM MAIN CONTROL PANEL.
7. NEW REMOTE ANNUNCIATER PANEL FOR EMERGENCY GENERATORS.
8. MECHANICAL DDC CONTROL PANEL.
9. EMERGENCY SHUTDOWN DISCONNECT SWITCHES FUSED PER BOILER MANUFACTURER'S RECOMMENDATIONS(TYPICAL OF 5).

GENERAL NOTES:

1. ALL DISCONNECT SWITCHES SHOWN SHALL BE 30A/3P-480V NON-FUSED SWITCHES IN NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED.
2. ALL HOMERUNS TO MCC-Q SHALL BE ROUTED THROUGH THE UTILITY TRENCH.
3. SEE SHEETS E01-1 THRU E01-3 FOR LOCATIONS OF EXISTING PANELS. SEE SHEETS EP5-1 THRU EP5-2 FOR LOCATIONS OF NEW PANELS.



KEYPLAN

GRAPHIC SCALE 1/8"=1'-0"

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ELECTRICAL PLAN – SUB-BASEMENT FLOOR

CONSTR. CONTR. NO.	SPECIFICATION NO.	NAVFAC DRWG. NO.	TP NO. XXXXX
XXXXX	XXXXX	XXXXX	SHEET ? OF ??

DEPARTMENT OF THE NAVY
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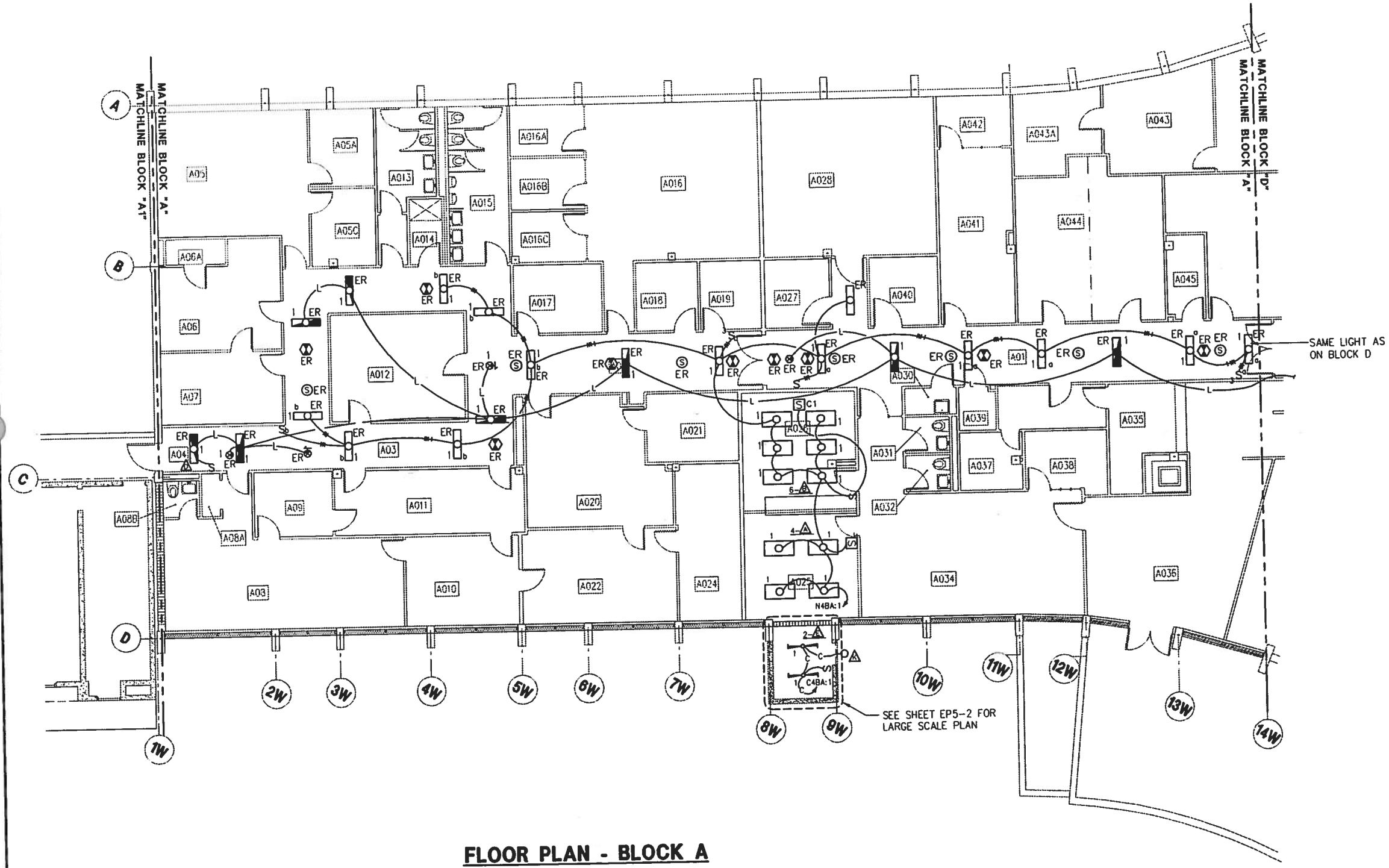
U.S. NAVAL STATION ROOSEVELT ROADS, P.R.
REPAIRS TO NAVAL HOSPITAL
ELECTRICAL PLAN –

PLATE NO. EP2-

PWC # XXXXX

DATE	REVISION DESCRIPTION

ENG. DIV. DIR.: DATE:
SATISFACTORY TO: DATE:
DRAWN BY: FCM

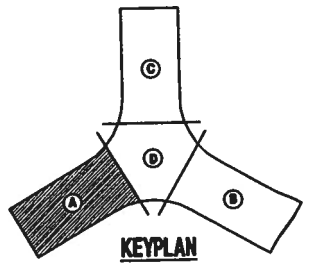


FLOOR PLAN - BLOCK A
BASEMENT FLOOR

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

GENERAL NOTES:

1. ALL DISCONNECT SWITCHES SHOWN SHALL BE 30A/3P-480V NON-FUSED SWITCHES IN NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED.



KEYPLAN

0 5 10 15 20
GRAPHIC SCALE
1/8"=1'-0"

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ELECTRICAL PLAN - BASEMENT FLOOR - BLOCK A

CONSTR. CONTR. NO.	SPECIFICATION NO.	NAVFAC DRWG. NO.	TF NO.
XXXXX	XXXXX	XXXXX	XXXXX SHEET ? OF ??

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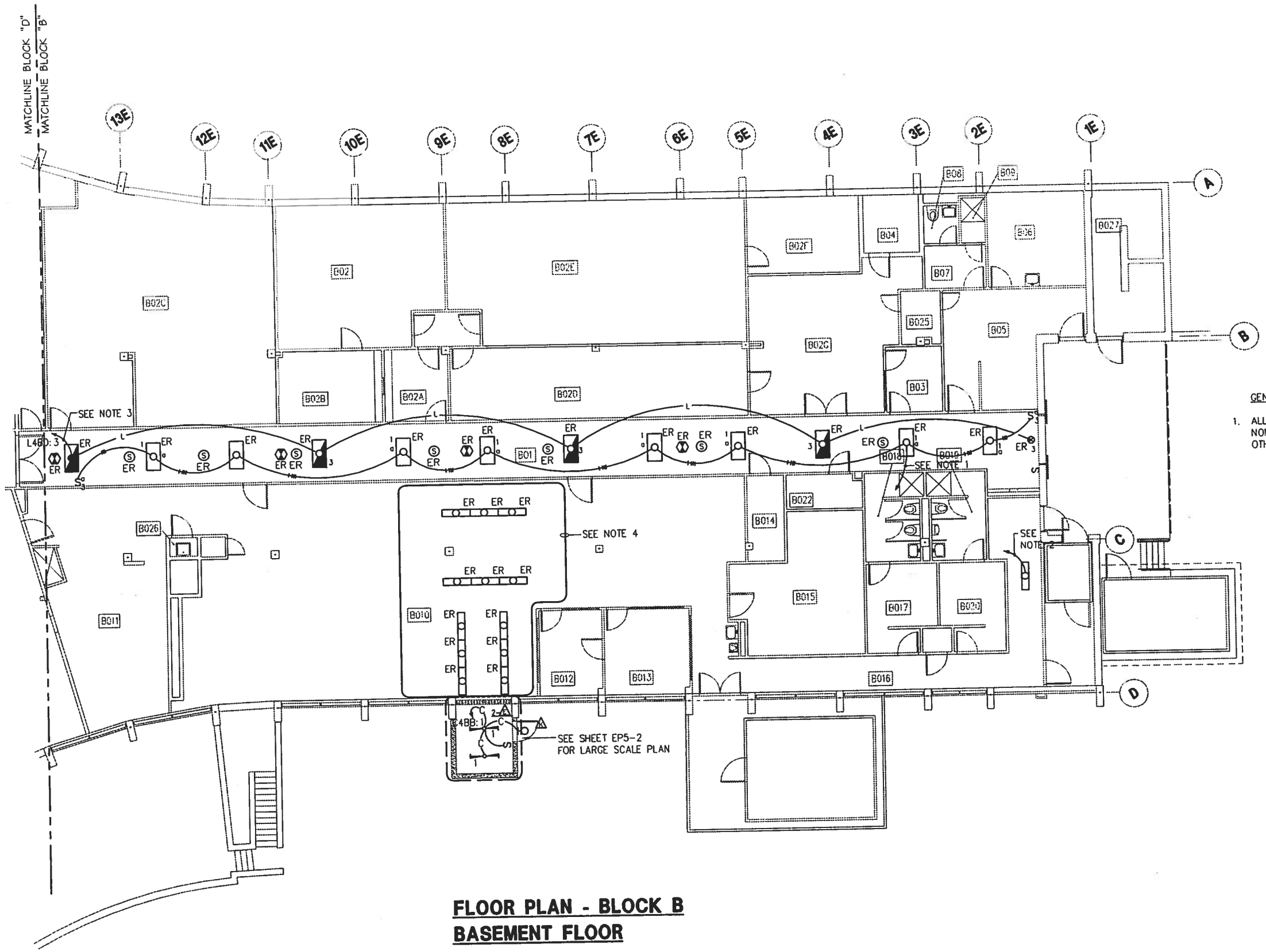
NAVAL FACILITIES ENGINEERING COMMAND
NAVY PUBLIC WORKS CENTER, JACKSONVILLE, FL
U.S. NAVAL STATION ROOSEVELT ROADS, P.R.
REPAIRS TO NAVAL HOSPITAL
ELECTRICAL PLAN -

REVISION DESCRIPTION | DATE
ENG. DIV. DIR.: DATE:
SATISFACTORY TO: DATE:
DESIGN BY: JFA DRAWN BY: CBN

PLATE NO.
EP2-

PWC # XXXXX



FLOOR PLAN - BLOCK B
BASEMENT FLOOR

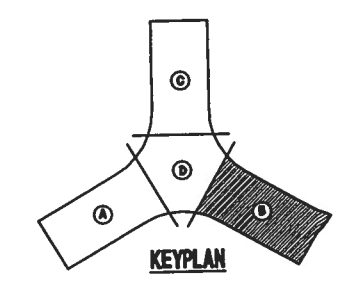
SCALE: 1/8" = 1'-0"

KEYED NOTES:

1. EXISTING CIRCUITRY TO REMAIN RE-CONNECT HOMERUN FROM LP-B-BB.3 TO N4BB:1.
2. RE-CONNECT EXISTING CIRCUIT EE-B-BB:4 FROM CORRIDOR LIGHTS TO THIS LOCATION.
3. EXISTING CIRCUITRY TO REMAIN. RE-CONNECT HOMERUN FROM EE-B-BB:4 TO L4BB:3.
4. RE-CONNECT EXISTING LIGHTS TO EXISTING CIRCUIT LP-B-BB:5,6,7

GENERAL NOTES:

1. ALL DISCONNECT SWITCHES SHOWN SHALL BE 30A/3P-480V NON-FUSED SWITCHES IN NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED.



KEYPLAN

0 5 10 15 20
GRAPHIC SCALE
1/8"=1'-0"

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REPAIRS TO NAVAL HOSPITAL
ELECTRICAL PLAN – BASEMENT FLOOR – BLOCK B

CONSTR. CONTR. NO.	SPECIFICATION NO.	NAVFAC DRWG. NO.	TF NO. XXXXX
XXXXX	XXXXX	XXXXX	SHEET ? OF ??

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NAVY PUBLIC WORKS CENTER, JACKSONVILLE, FL

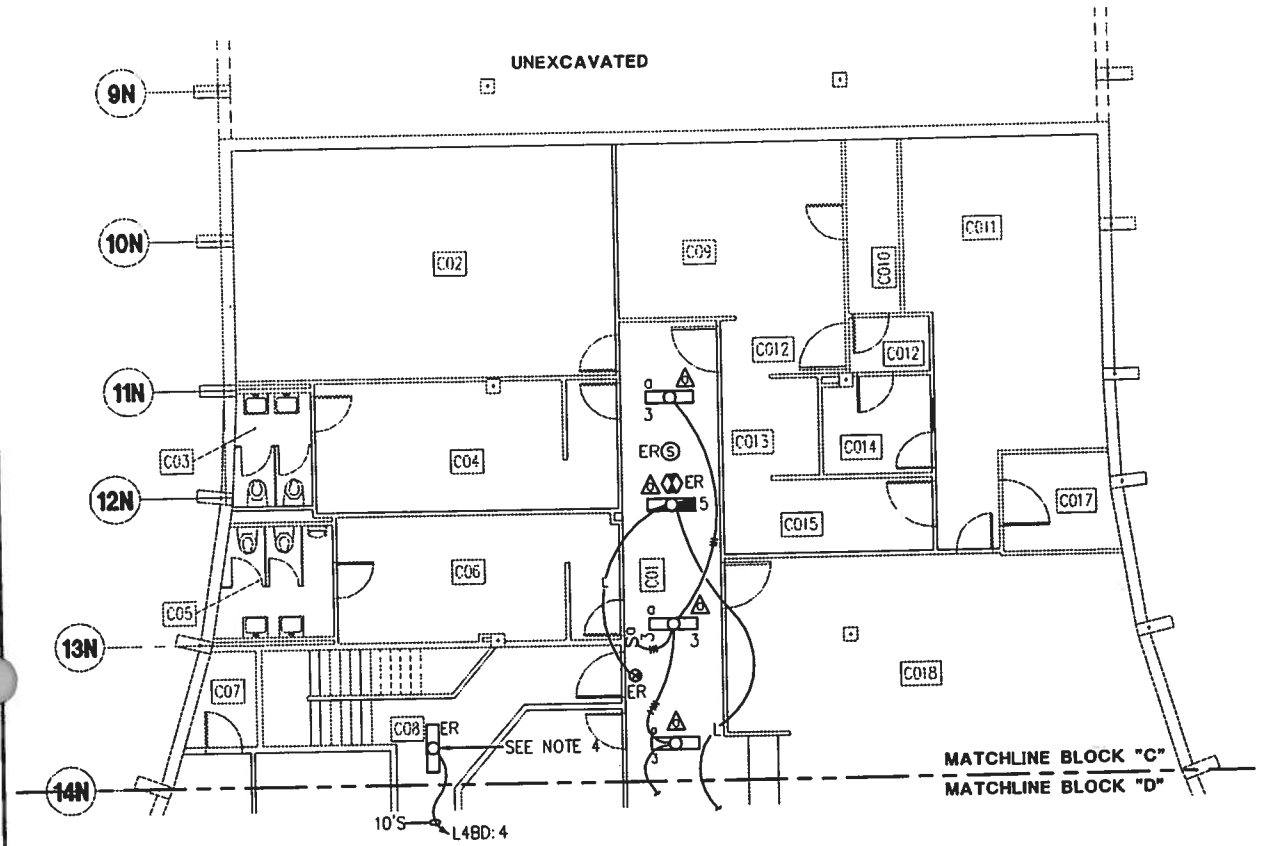
U.S. NAVAL STATION ROOSEVELT ROADS, P.R.
REPAIRS TO NAVAL HOSPITAL
ELECTRICAL PLAN – BASEMENT FLOOR – BLOCK B

PLATE NO.
EP2-3

PWC # XXXXX

REVISION DESCRIPTION	DATE

DSG. DIV. DIR.: DATE:
SATISFACTORY TO: DATE:
DESIGN BY: EA DRAWN BY: CBN



FLOOR PLAN - BLOCK C
BASEMENT FLOOR

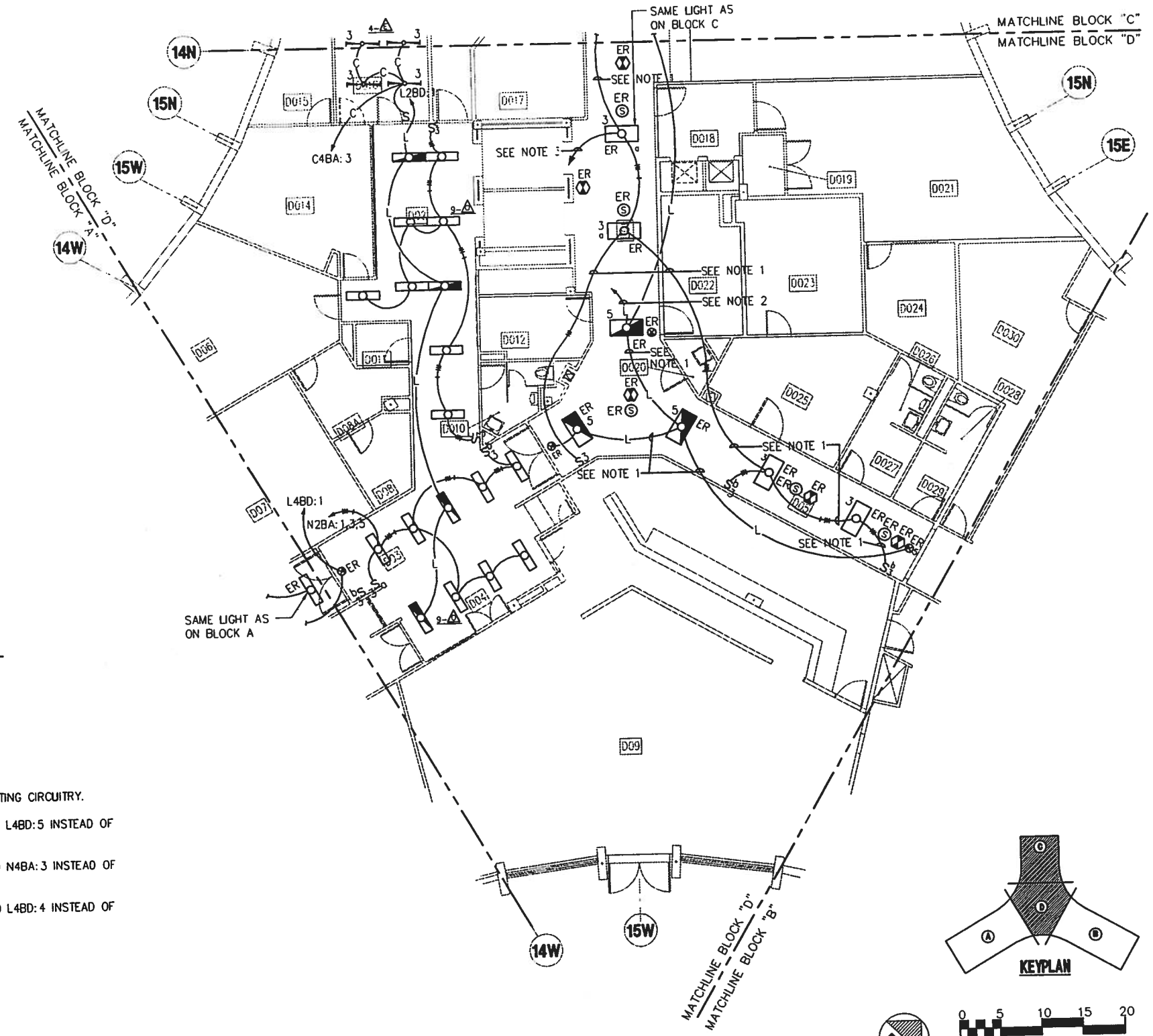
SCALE: 1/8" = 1'-0"

NOTES:

1. RE-USE EXISTING CIRCUITRY.
2. HOMERUN TO L4BD:5 INSTEAD OF EE-B-DD:6.
3. HOMERUN TO N4BA:3 INSTEAD OF B-DD:1.
4. HOMERUN TO L4BD:4 INSTEAD OF LP-SE:6

GENERAL NOTES:

1. ALL DISCONNECT SWITCHES SHOWN SHALL BE 30A/3P-480V NON-FUSED SWITCHES IN NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED.



FLOOR PLAN - BLOCK D
BASEMENT FLOOR

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

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REPAIRS TO NAVAL HOSPITAL
ELECTRICAL PLAN - BASEMENT FLOOR - BLOCKS C & D

CONSTR. CONTR. NO.	SPECIFICATION NO.	NAVFAC DRWG. NO.	TF NO.
XXXXX	XXXXX	XXXXX	XXXXX

SHEET ? OF ??

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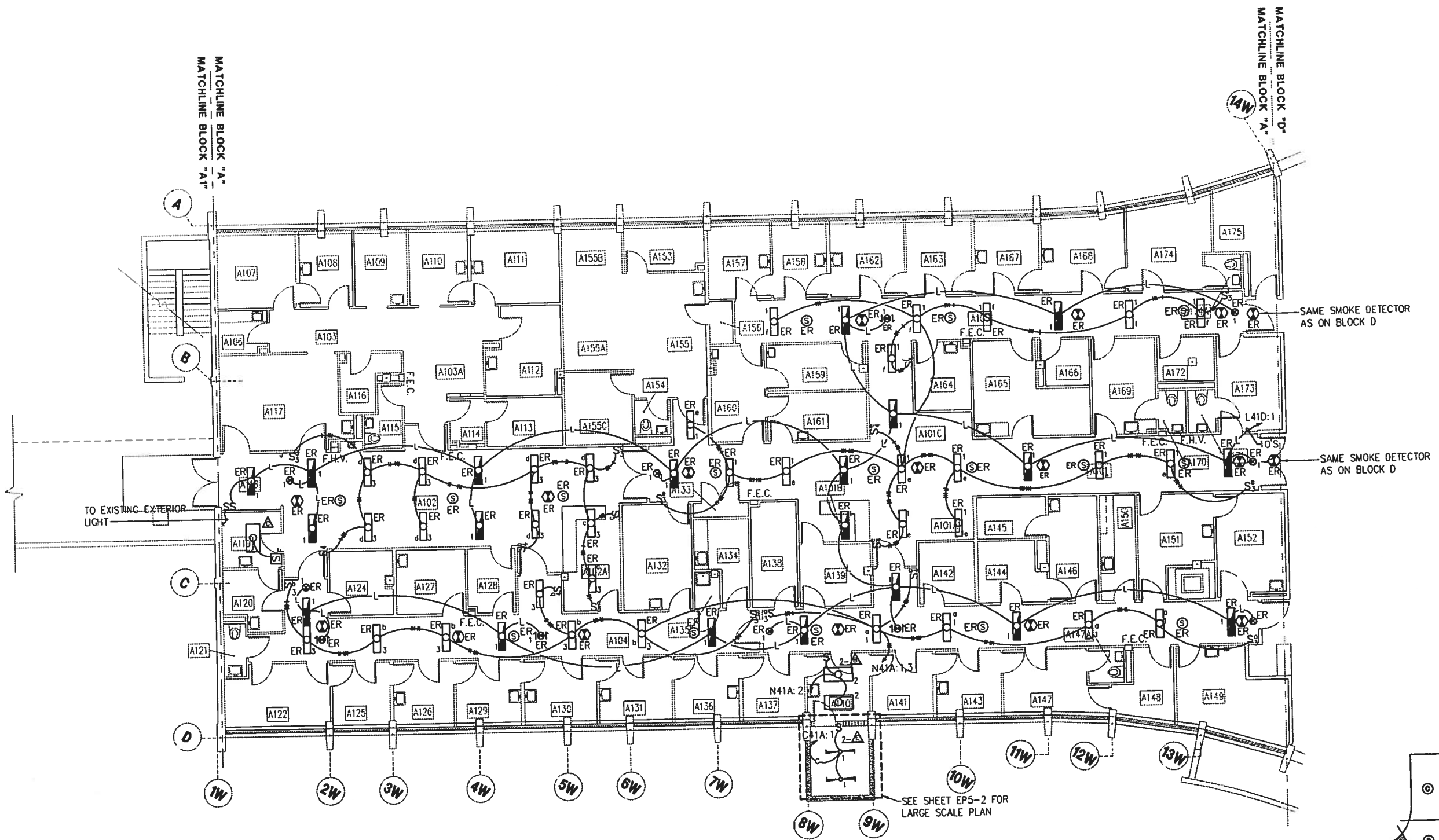
NAVY PUBLIC WORKS CENTER, JACKSONVILLE, FL
NAVAL FACILITIES ENGINEERING COMMAND

U.S. NAVAL STATION — ROOSEVELT ROADS, P.R.
REPAIRS TO NAVAL HOSPITAL
ELECTRICAL PLAN -

PLATE NO.
EP2-4

PWC # XXXXX

REVISION DESCRIPTION | DATE | ENG. DIV. DIR.: | DATE: | SATISFACTORY TO: | DATE: | DRAWN BY: CDM

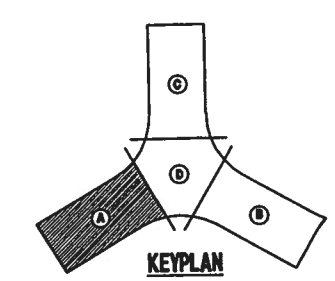


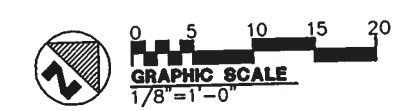
FLOOR PLAN - BLOCK A
FIRST FLOOR

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

GENERAL NOTES:

1. ALL DISCONNECT SWITCHES SHOWN SHALL BE 30A/3P-480V NON-FUSED SWITCHES IN NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED.





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U.S. NAVAL STATION ROOSEVELT ROADS, P.R.
REPAIRS TO NAVAL HOSPITAL
ELECTRICAL PLAN – FIRST FLOOR – BLOCK A

CONSTR. CONTR. NO.	SPECIFICATION NO.	NAVFAC DRWG. NO.	TF NO. XXXXX
XXXXX	XXXXX	XXXXX	SHEET ? OF ??

PLATE NO. EP2-5

PWC # XXXXX

DEPARTMENT OF THE NAVY
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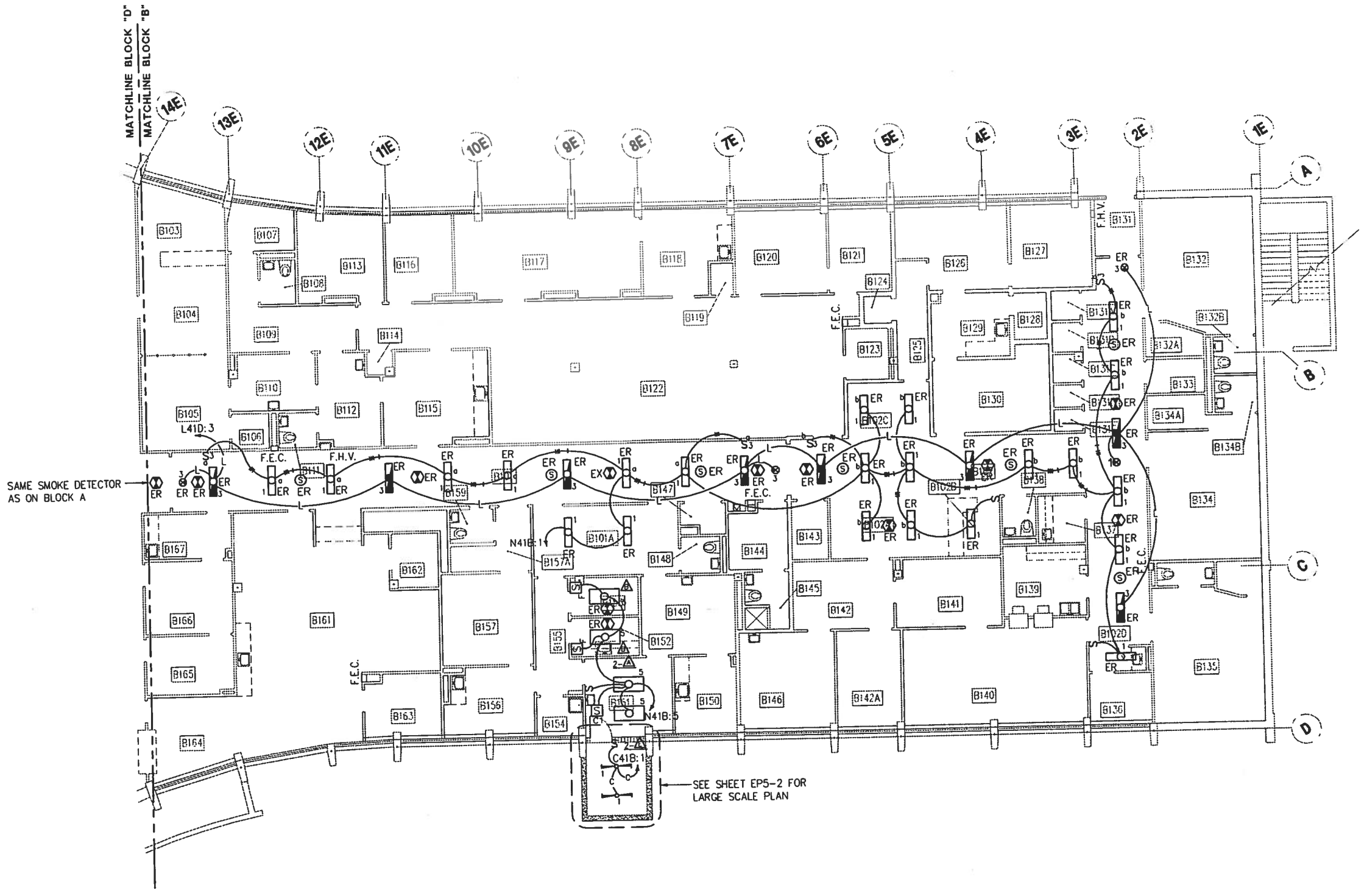
NAVAL FACILITIES ENGINEERING COMMAND
U.S. NAVAL STATION ROOSEVELT ROADS, P.R.
REPAIRS TO NAVAL HOSPITAL
ELECTRICAL PLAN – FIRST FLOOR – BLOCK A

REVISION DESCRIPTION | DATE

ENG. DIV. DIR.: DATE
SATISFACTORY TO: DATE
DESIGN BY: JEA DRAWN BY: CBN

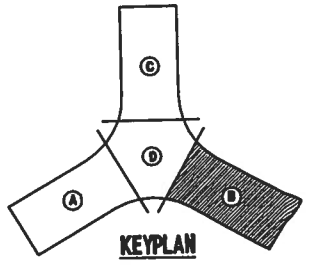


FLOOR PLAN - BLOCK B
FIRST FLOOR

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

GENERAL NOTES:

1. ALL DISCONNECT SWITCHES SHOWN SHALL BE 30A/3P-480V NON-FUSED SWITCHES IN NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED.



KEYPLAN

GRAPHIC SCALE
1/8"=1'-0"

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U.S. NAVAL STATION ROOSEVELT ROADS, P.R.
REPAIRS TO NAVAL HOSPITAL
ELECTRICAL PLAN – FIRST FLOOR – BLOCK B

CONSTR. CONTR. NO.	SPECIFICATION NO.	NAVFAC DRWG. NO.	TF NO. XXXXX
XXXXX	XXXXX	XXXXX	SHEET ? OF ??

PLATE NO.
EP2-

PWC # XXXXX

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVY PUBLIC WORKS CENTER, JACKSONVILLE, FL
U.S. NAVAL STATION ROOSEVELT ROADS, P.R.
REPAIRS TO NAVAL HOSPITAL
ELECTRICAL PLAN –

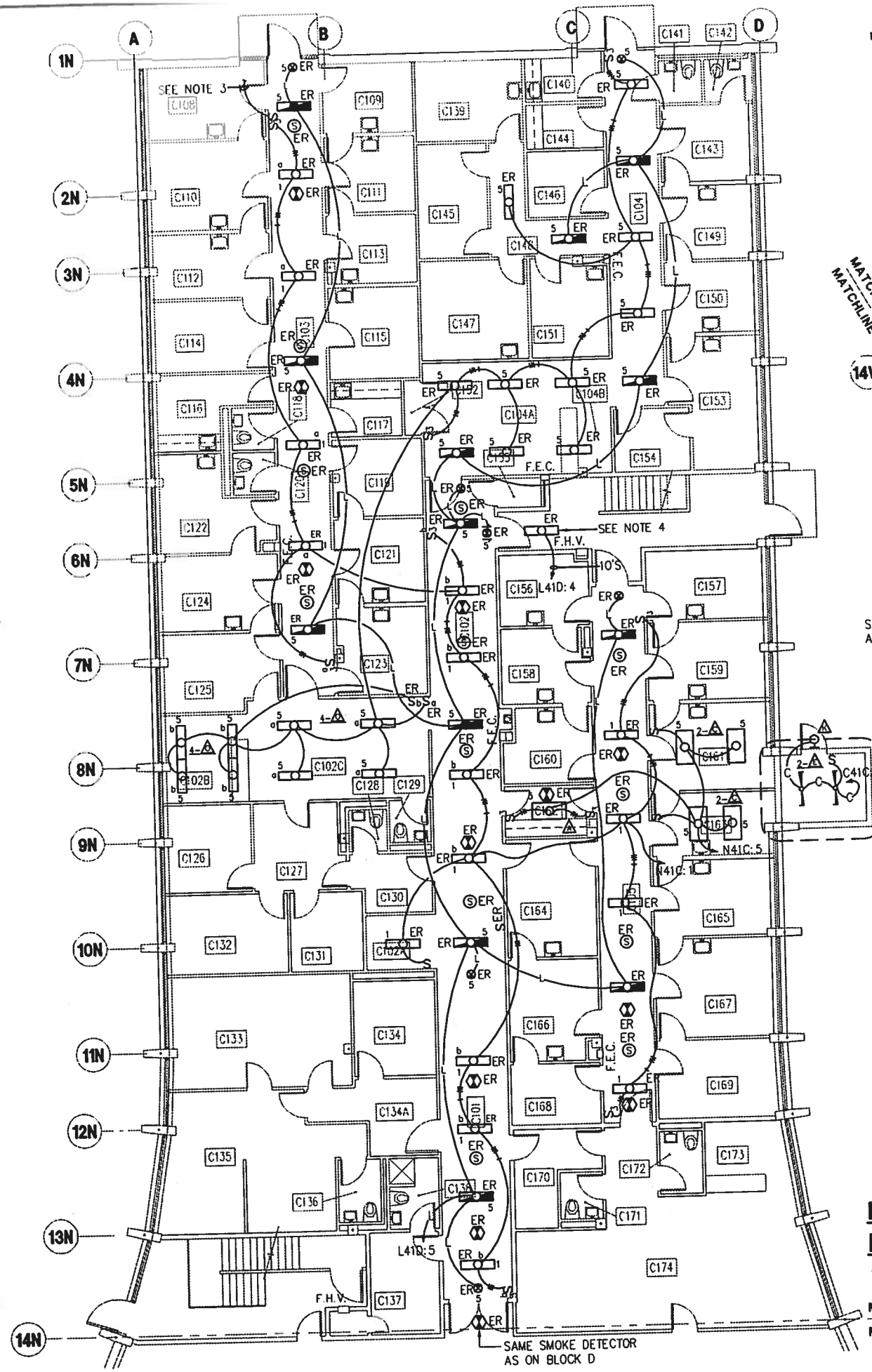
REVISION DESCRIPTION	DATE

ENG. DIV. DRL. ____ DATE ____
SATISFACTORY TO: ____ DATE ____

DESIGN BY: JEA
DRAWN BY: CDH

GENERAL NOTES:

1. ALL DISCONNECT SWITCHES SHOWN SHALL BE 30A/3P-480V NON-FUSED SWITCHES IN NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED.



KEYED NOTES:

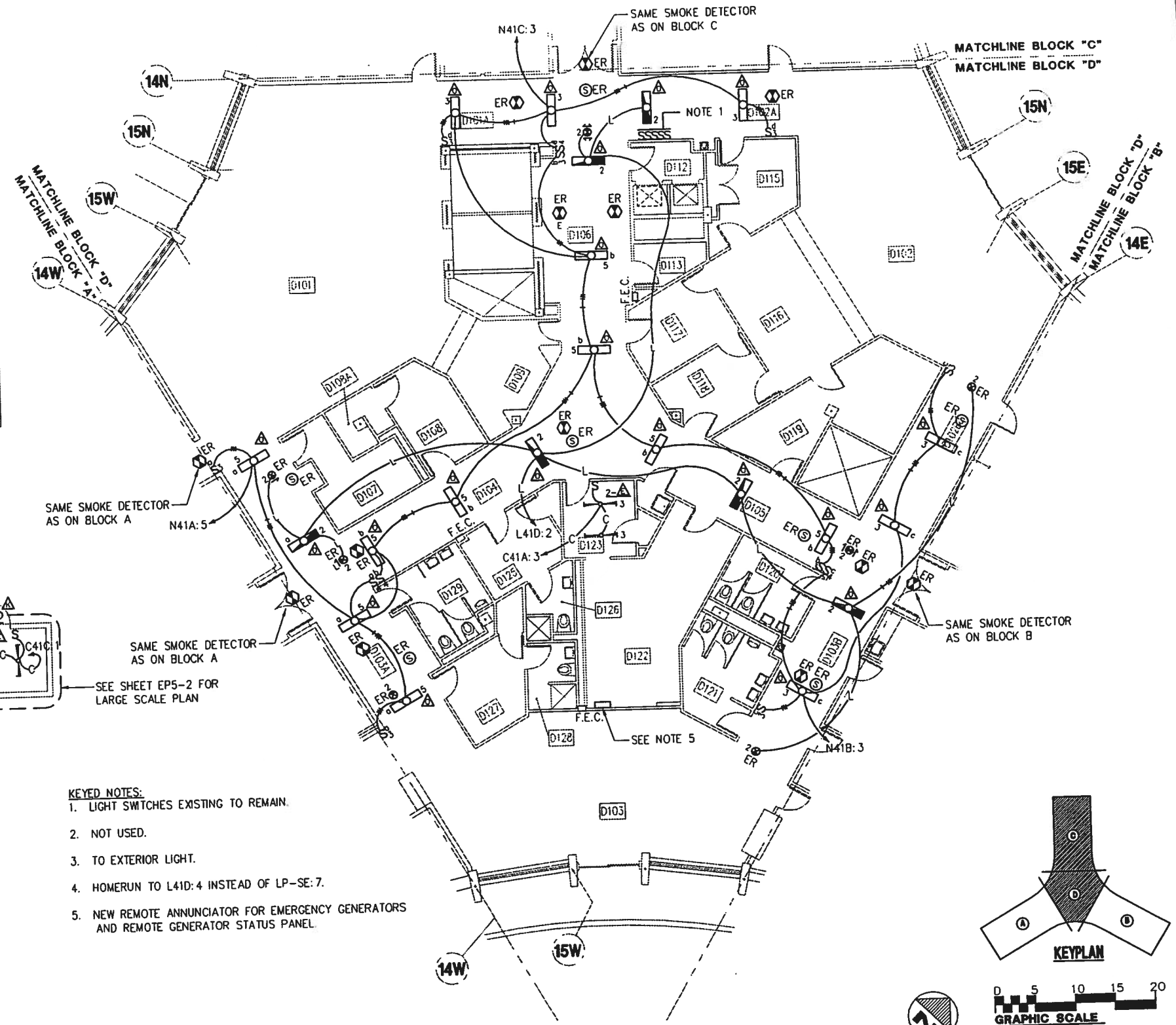
1. LIGHT SWITCHES EXISTING TO REMAIN.
2. NOT USED.
3. TO EXTERIOR LIGHT.
4. HOMERUN TO L41D: 4 INSTEAD OF LP-SE: 7.
5. NEW REMOTE ANNUNCIATOR FOR EMERGENCY GENERATORS AND REMOTE GENERATOR STATUS PANEL.

FLOOR PLAN - BLOCK C
FIRST FLOOR

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

MATCHLINE BLOCK "C"

MATCHLINE BLOCK "D"



FLOOR PLAN - BLOCK D
FIRST FLOOR

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

GRAPHIC SCALE 1/8"=1'-0"

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ELECTRICAL PLAN - FIRST FLOOR - BLOCKS C & D

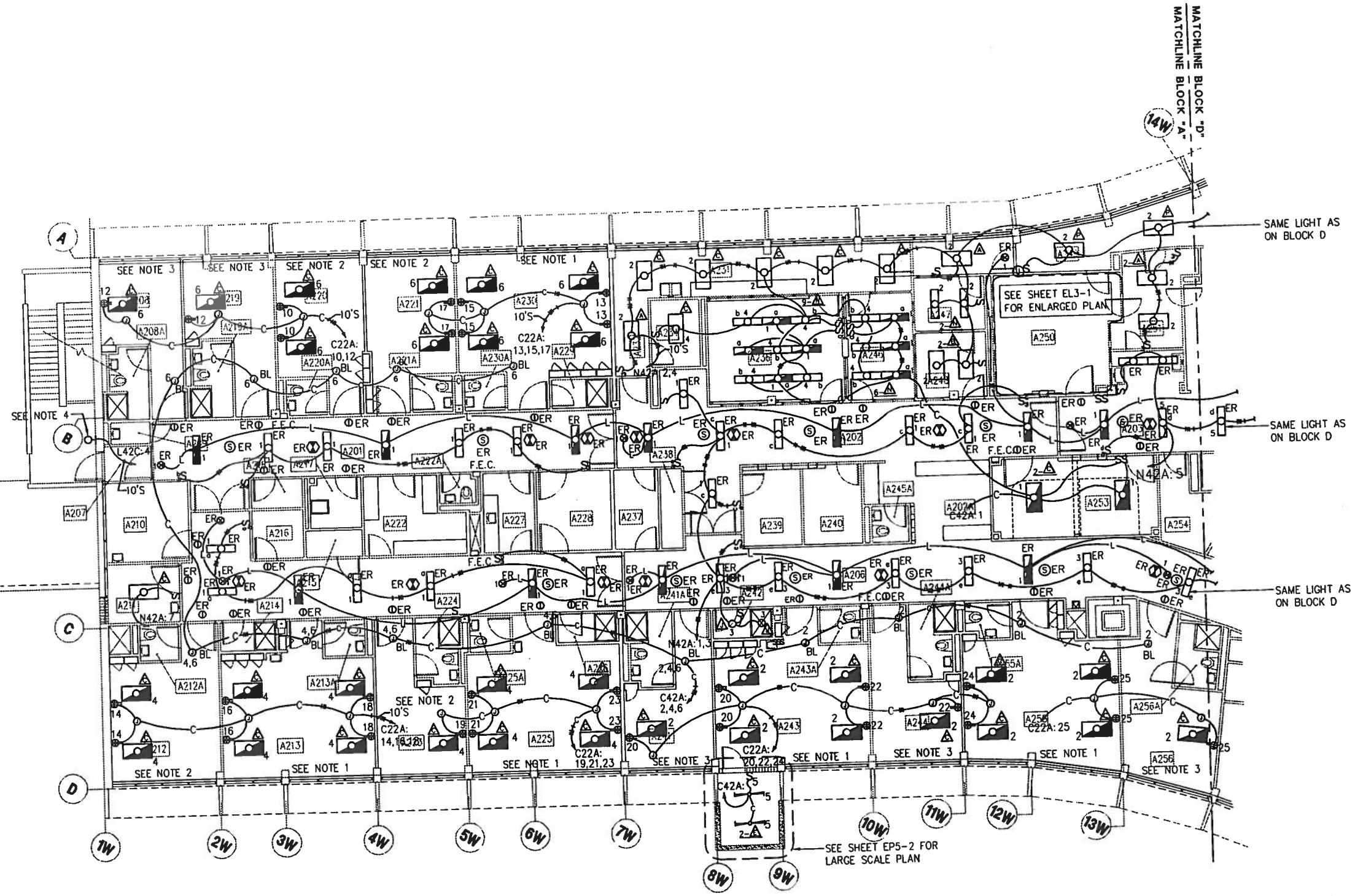
CONSTR. CONTR. NO. XXXXX | SPECIFICATION NO. XXXXX | NAVFAC DWG. NO. XXXXX | TF NO. XXXXX | SHEET ? OF ??

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVY PUBLIC WORKS CENTER, JACKSONVILLE, FL
U.S. NAVAL STATION ROOSEVELT ROADS, P.R.
REPAIRS TO NAVAL HOSPITAL
ELECTRICAL PLAN -

DATE | REVISION DESCRIPTION | ENG. DIV. DIR. | DATE | SATISFACTORY TO | DATE | DESIGN BY: EA | DRAWN BY: CBN

PLATE NO. EP2-

PWC # XXXX



GENERAL NOTES:

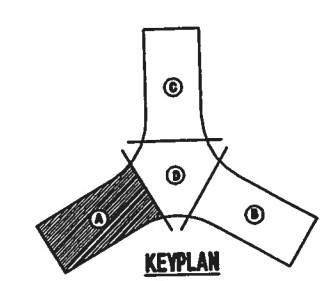
1. ALL DISCONNECT SWITCHES SHOWN SHALL BE 30A/3P-480V NON-FUSED SWITCHES IN NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED.

FLOOR PLAN - BLOCK A
SECOND FLOOR

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

KEYED NOTES:

1. TYPICAL 4 BED PATIENT ROOM. SEE SHEET EL3-2.
2. TYPICAL 2 BED PATIENT ROOM. SEE SHEET EL3-2.
3. TYPICAL 1 BED PATIENT ROOM. SEE SHEET EL3-2.
4. RE-CIRCUIT HOMERUN LP-SE:8(EXISTING) TO L42C:2.



GRAPHIC SCALE
1/8"=1'-0"

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ELECTRICAL PLAN – SECOND FLOOR – BLOCK A

CONSTR. CONTR. NO.	SPECIFICATION NO.	NAVFAC DRWG. NO.	TF NO.
XXXXX	XXXXX	XXXXX	XXXXX
			SHEET ? OF ??

PLATE NO. EP2-

PWC # XXXX

DEPARTMENT OF THE NAVY
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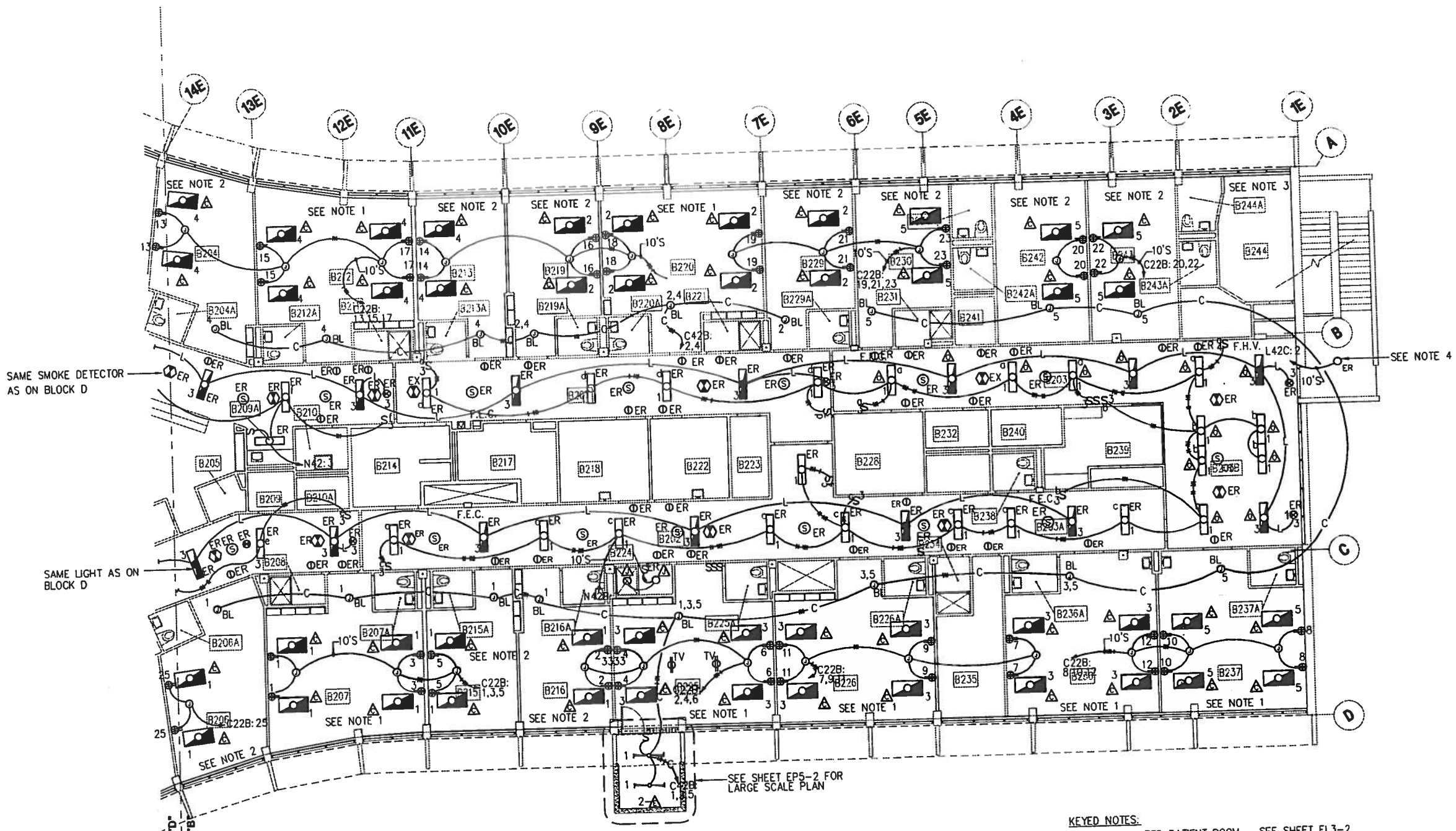
U.S. NAVAL STATION ROOSEVELT ROADS, P.R.
REPAIRS TO NAVAL HOSPITAL
ELECTRICAL PLAN –

REVISION DESCRIPTION | DATE

ENG. DIV. DIR.: | DATE:
SATISFACTORY TO: | DATE:
DESIGN BY: EA | DRAWN BY: CBN



GENERAL NOTES:

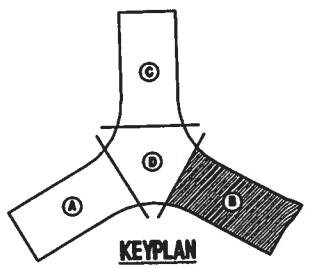
1. ALL DISCONNECT SWITCHES SHOWN SHALL BE 30A/3P-480V NON-FUSED SWITCHES IN NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED.

FLOOR PLAN - BLOCK B
SECOND FLOOR

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

KEYED NOTES:

1. TYPICAL 4 BED PATIENT ROOM - SEE SHEET EL3-2.
2. TYPICAL 2 BED PATIENT ROOM - SEE SHEET EL3-2.
3. TYPICAL 1 BED PATIENT ROOM - SEE SHEET EL3-2.
4. RE-CIRCUIT HOMERUN LP-SE: 9 (EXISTING) TO L42C: 2.



KEYPLAN

GRAPHIC SCALE 1/8"=1'-0"

0 5 10 15 20

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ARCHITECTS - ENGINEERS
MONTGOMERY, ALABAMA

U.S. NAVAL STATION ROOSEVELT ROADS, P.R.
REPAIRS TO NAVAL HOSPITAL

ELECTRICAL DEMOLITION PLAN - SECOND FLOOR - BLOCK B

CONSTR. CONTR. NO.	SPECIFICATION NO.	NAVFAC DRWG. NO.	TF NO. XXXXX
XXXXX	XXXXX	XXXXX	SHEET ? OF ??

DEPARTMENT OF THE NAVY
NAVY PUBLIC WORKS CENTER, JACKSONVILLE, FL
NAVAL FACILITIES ENGINEERING COMMAND

U.S. NAVAL STATION ROOSEVELT ROADS, P.R.
REPAIRS TO NAVAL HOSPITAL
ELECTRICAL PLAN -

PLATE NO.
EP2-

PWC # 00000

REVISION DESCRIPTION	DATE

DIG. DIV. DR.:
DATE:
SATISFACTORY TO:
DATE:
DESIGN BY: JFA
DRAWN BY: CBN