REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED

CONTRACT N62470-91-B-7373

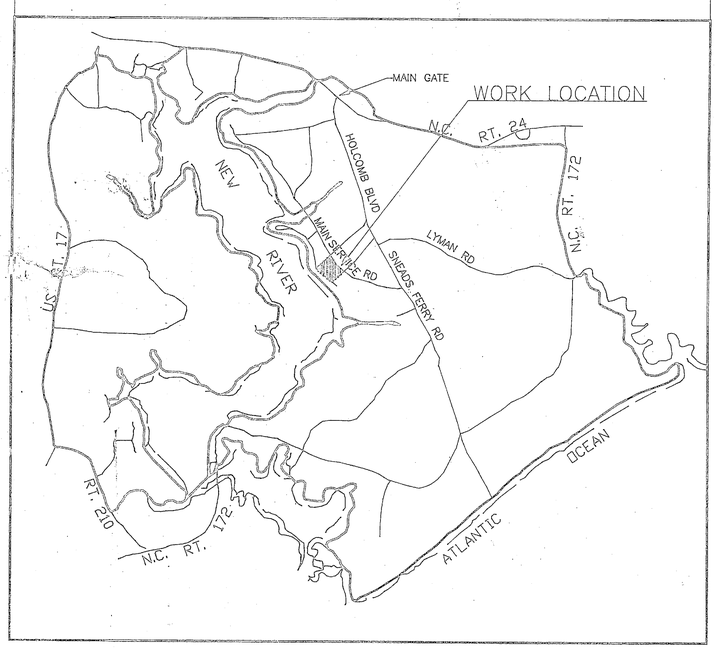
REPLACE MEDIUM VOLTAGE ELECTRICAL DISTRIBUTION SYSTEM, DIVISION 400 AREA MCB CAMP LEJEUNE, N.C.

PLEASE NOTE: THIS DRAWING HAS BEEN REDUCED TO "D" SIZE (24"x 36") THE FINAL DRAWING SHALL BE ENLARGED TO STANDARD "F" SIZE (30"x 42")

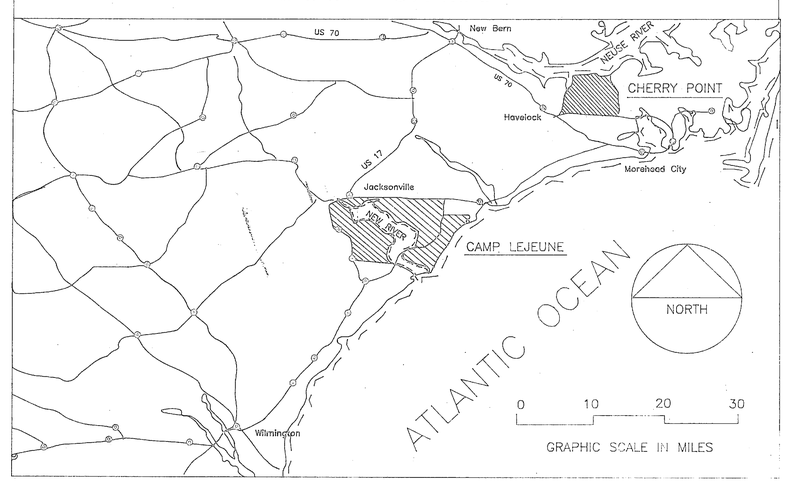
DRAWING INDEX

SHEET	PWD	NAVFAC	TITLE
T-1			TITLE SHEET
E-1			EXISTING ELECTRICAL DISTRIBUTION PLAN
E-2			ELECTRICAL DISTRIBUTION PLAN-AREA A
E-3			ELECTRICAL DISTRIBUTION PLAN-AREA B
E-4			ELECTRICAL DISTRIBUTION PLAN-AREA C
E-5			DETAILS
E-6			MANHOLE DETAILS
E-7			MANHOLE DETAILS
E-8			POLE DETAILS
E-9			POLE DETAILS
E-10			POLE DETAILS

VICINITY MAP



LOCATION MAP



T-1

AMERICAN CONSULTING ENGINEERS

DEPT OF NAVY — NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

DES JMW
DR CAD
CHK JMW
SUBMITTED BY:
DESIGN DIR:
APPROVED: PWO OR OICC DATE
SATISFACTORY TO DATE

REPLACE MEDIUM VOLTAGE ELECTRICAL DISTRIBUTION SYSTEM, DIVISION 400 AREA MCB CAMP LEJEUNE, N.C.

TITLE SHEET

SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.
F	80091	CONSTR. CONTR. NO. N62470-91-B-7373

SCALE: GRAPHIC SPEC. 05-91-7373 SHEET OF

N337,000
N336,000
N335,000
E2,496,000
E2,493,000
HOLCOMB
STREET
MAIN
SERVICE
ROAD
RIVER
ROAD
CONTRACTOR STORAGE
NEW MECH BLDG
NEW H-BALL CT.
METAL STORAGE SHED
5TH AREA GUN PARK
FLAMMABLE STORAGE
RANGE
S1715
S1718
S1724
S1728
S1732
S1734
S1736
S1738
S1773
S1774
S1731
S1737
S1730
S1770
S1884
S1901
S1365
S1455
S409
S454
S461
S518A
S524A
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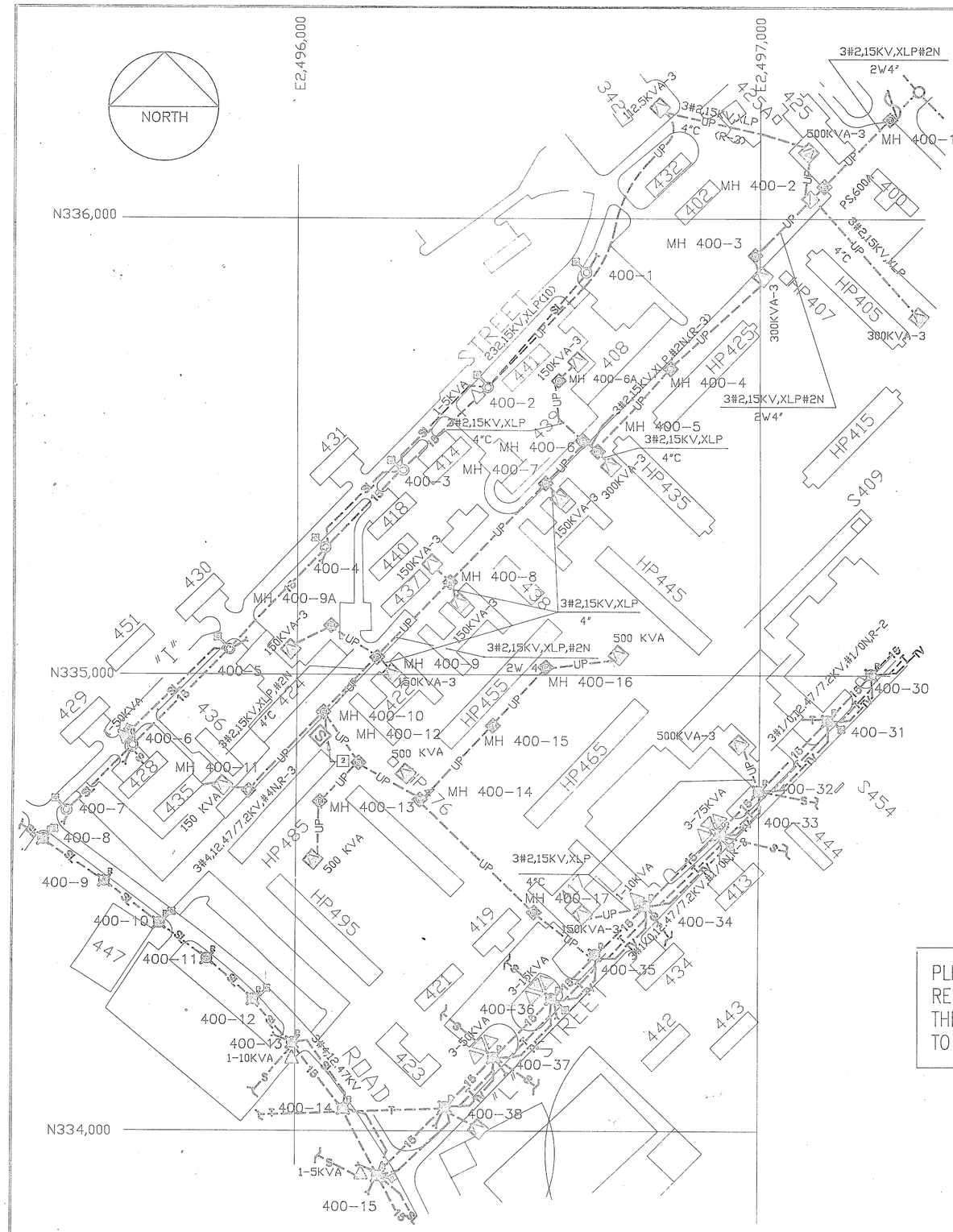

LEGEND (NEW CONSTRUCTION)

- EXISTING 12.47KV+NEUTRAL OVERHEAD POLE LINE
- PROVIDE 12.47KV+NEUTRAL OVERHEAD CONDUCTORS AS INDICATED
- EXISTING OVERHEAD SECONDARY CONDUCTORS
- EXISTING OVERHEAD STREET LIGHTING CONDUCTORS
- EXISTING OVERHEAD TELEPHONE CABLE
- EXISTING OVERHEAD CABLE TELEVISION CABLE
- EXISTING POLE
- REMOVE EXISTING POLE AND PROVIDE NEW POLE AS INDICATED
- PROVIDE STREET LIGHT AND MOUNTING ARM
- PROVIDE DOWN GUY AND ANCHOR
- EXISTING UNDERGROUND PRIMARY DUCT AND CABLE
- PROVIDE UNDERGROUND PRIMARY DUCT AND CABLE
- EXISTING POLE TYPE TRANSFORMER
- EXISTING PAD MOUNTED TRANSFORMER
- PROVIDE MEDIUM VOLTAGE SECTIONALIZER
- EXISTING PAD MOUNTED PRIMARY SWITCH
- EXISTING MANHOLE
- PROVIDE MANHOLE

GENERAL NOTES

1. WHERE EXISTING TRANSFORMERS ARE INDICATED ON NEW POLES, TRANSFER TRANSFORMERS FROM EXISTING POLES TO NEW POLES. PROVIDE NEW MOUNTING HARDWARE AS NECESSARY.
2. WHERE UNDERGROUND TERMINATIONS ARE INDICATED ON NEW POLES, ADJUST POLE LOCATION TO MINIMIZE DISTANCE BETWEEN NEW POLE AND EXISTING CONDUIT. MEASURE AND RECORD TRANSFORMER VOLTAGE PRIOR TO DE-ENERGIZING TRANSFORMER. SET TRANSFORMER TAPS TO MATCH MEASURED VOLTAGE AFTER INSTALLATION.
3. SUPPORT EXISTING PRIMARY CONDUCTORS, SECONDARY CONDUCTORS, STREET LIGHTING CONDUCTORS, TELEPHONE CABLES, TELEVISION CABLES, ETC. WHEN TRANSFERING CONDUCTORS AND CABLES BETWEEN EXISTING POLES AND NEW POLES. DO NOT ALLOW CABLES TO HANG UNSUPPORTED WHEN EXISTING POLES ARE REMOVED.
4. MEASURE VOLTAGE OF EXISTING STREET LIGHTING CIRCUITS PRIOR TO REMOVAL OF EXISTING STREET LIGHTS. SET NEW BALLAST VOLTAGE TAP FOR PROPER VOLTAGE PRIOR TO INSTALLATION.
5. PROVIDE MANHOLES AS INDICATED IN DETAIL B/E5/E5.

PLEASE NOTE: THIS DRAWING HAS BEEN REDUCED TO "D" SIZE (24" x 36") THE FINAL DRAWING SHALL BE ENLARGED TO STANDARD "F" SIZE (30" x 42")

GRAPHIC SCALE

0' 50' 100' 150' 200' 250' 300' 1"=100'

REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED

POLE NOTES

- [5 4] POLE # 400-1
  45' CLASS 4, VE1-2, F1-4S, ST LT (6' ARM), (3) J6
- [5 4] POLE # 400-2
  45' CLASS 4, VA5, VG66 (1-5KVA), VE1-2, F1-4S, ST LT (6' ARM), (3) J5, UG TERM (1 PHASE), 4" CONDUIT RISER, VM2-11
- [5 4] POLE # 400-3
  45' CLASS 4, VA1, ST LT (6' ARM), (3) J5, VM2-11
- [5 4] POLE # 400-4
  45' CLASS 4, VA1, VE1-2, F1-4S, ST LT (6' ARM), (3) J6, VM2-11
- [5 4] POLE # 400-5
  45' CLASS 4, VA5, VE1-2, F1-4S, ST LT (6' ARM), (2) J6, VM2-11
- [5 4] POLE # 400-6
  45' CLASS 4, VA5, VG10 (1-50KVA) VE1-2, F1-4S, ST LT (6' ARM), (4) J5, VM2-11
- [5 4] POLE # 400-7
  45' CLASS 4, VE1-2, F1-4S, ST LT (6' ARM), (2) J6
- [4 1] POLE # 400-8
  40' CLASS 3, (2) J5, ST LT (8' ARM)
- [4 1] POLE # 400-9
  40' CLASS 3, (2) J5
- [4 1] POLE # 400-10
  40' CLASS 3, (2) J5, ST LT (8' ARM)
- [4 1] POLE # 400-11
  40' CLASS 3, (2) J5
- [4 1] POLE # 400-12
  40' CLASS 3, (2) J5, ST LT (8' ARM), VM2-11
- [4 1] POLE # 400-13
  45' CLASS 3, VA5, VE1-2, F1-4S,, VG67 (1-10KVA), (2) J5, VM2-11
- [4 1] POLE # 400-14
  45' CLASS 3, VA1, (2) J5, TELEPHONE CLAMP, VM2-11
- [4 1] POLE # 400-15
  45' CLASS 1, VC8-1 (ONLY SINGLE PHASE + NEUTRAL IN POLE 400-14 DIRECTION), VC8-1 (ONE DIRECTION ONLY), VG-67 (1-10KVA), VE1-2, F1-4S, ST LT (8' ARM), J5, VM2-11
- [4 1] POLE # 400-30
  45' CLASS 3, VC9-1, J5, TEL CLAMP, TV CLAMP, VM2-11
- [4 1] POLE # 400-31
  45' CLASS 3, VC9-1, (2) J6, ST LT (8' ARM), TEL CLAMP, TV CLAMP, VM2-11
- [4 1] POLE # 400-32
  45' CLASS 3, VC9-1, UG TERM W/X-ARM, (2) J5, (3) TEL CLAMP, TV CLAMP (W/STUB ARM), 4" CONDUIT RISER, VM2-11
- [4 1] POLE # 400-33
  45' CLASS 1, VC9-1, VG311 (3-25KVA), (2) J6, ST LT (8' ARM), TEL CLAMP, TV CLAMP, VM2-11
- [4 1] POLE # 400-34
  45' CLASS 3, VC9-1, VG39 (1-25KVA), UG TERM W/X-ARM, (2) J6, (3) TEL CLAMP, TV CLAMP(W/STUB ARM), (2) 1-1/2" CONDUIT RISER, 3-1/2" CONDUIT RISER, VM2-11
- [6 4 1 3] POLE # 400-35
  50' CLASS 2, VC9-1, UG TERM W/(2)X-ARM, SECTIONALIZING SWITCH FOR UG TERM., TEL CLAMP, TV CLAMP, (2) 4" CONDUIT RISER, VM2-11
- [4 1] POLE # 400-36
  45' CLASS 1, VC9-1, VG311 (3-50KVA), VE1-2, F1-4S, (3) J6, ST LT (8' ARM), TEL CLAMP, TV CLAMP, TEL RISER, VM2-11
- [4 1] POLE # 400-37
  45' CLASS 1, VC9-1, VG311 (3-50KVA)(CO & LA ON VC9-1 X-ARM), VE-2, F1-4S, (3) J6, (2) TEL CLAMP, TV CLAMP, 2-1/2" CONDUIT RISER, TEL RISER, VM2-11
- [4 1] POLE # 400-38
  45' CLASS 3, VC9-1, UG TERM W/X-ARM, VE1-2, F1-4S, (2) TEL CLAMP, 4" CONDUIT RISER, VM2-11, TEL PRESSURE FILL TUBE ON POLE

WORK NOTES

1. REMOVE EXISTING POLE AND HARDWARE. PROVIDE NEW POLE AND HARDWARE TO MATCH EXIST. EXCEPT AS NOTED. TRANSFER HV TERMINATORS, TRANSFORMERS AND SECONDARY SERVICE DROPS TO NEW POLE. PROTECT AND RECONNECT EXISTING PRIMARY, SECONDARY , TELEPHONE, TELEVISION, AND STREET LIGHT CONDUCTORS TO NEW POLE.
2. PROVIDE PRIMARY SECTIONALIZER PER DETAIL A/E5/E5. CONNECT SECTIONALIZER TO EXISTING PRIMARY CIRCUIT AS INDICATED ON SPECIFIC MANHOLE DETAIL. SEE MANHOLE DETAILS ON SHEETS E5, E6, E7.
3. EXISTING POLE HAS CONCRETE POURED AROUND BASE. REMOVE CONCRETE AS NECESSARY. MOUNT POLE TO SUPPORT EXISTING UNDERGROUND RISER CONDUITS.
4. PROVIDE POLE CAPS ON ALL NEW AND EXISTING POLES.
5. EXISTING POLE TO REMAIN.
6. PROVIDE SECTIONALIZING SWITCH IN LIEU OF FUSED CUTOUT FOR UG TERMINAL. PROVIDE OPERATING MECHANISM, OPERATING HANDLE, 3'x 3' GROUND GRID 12" BELOW GRADE AT HANDLE. GROUND HANDLE TO GROUND GRID WITH #1/0 CABLE. FABRICATE GROUND GRID FROM #1/0 BARE COPPER 18" ON CENTERS, EACH WAY.

E-2

AMERICAN CONSULTING ENGINEERS

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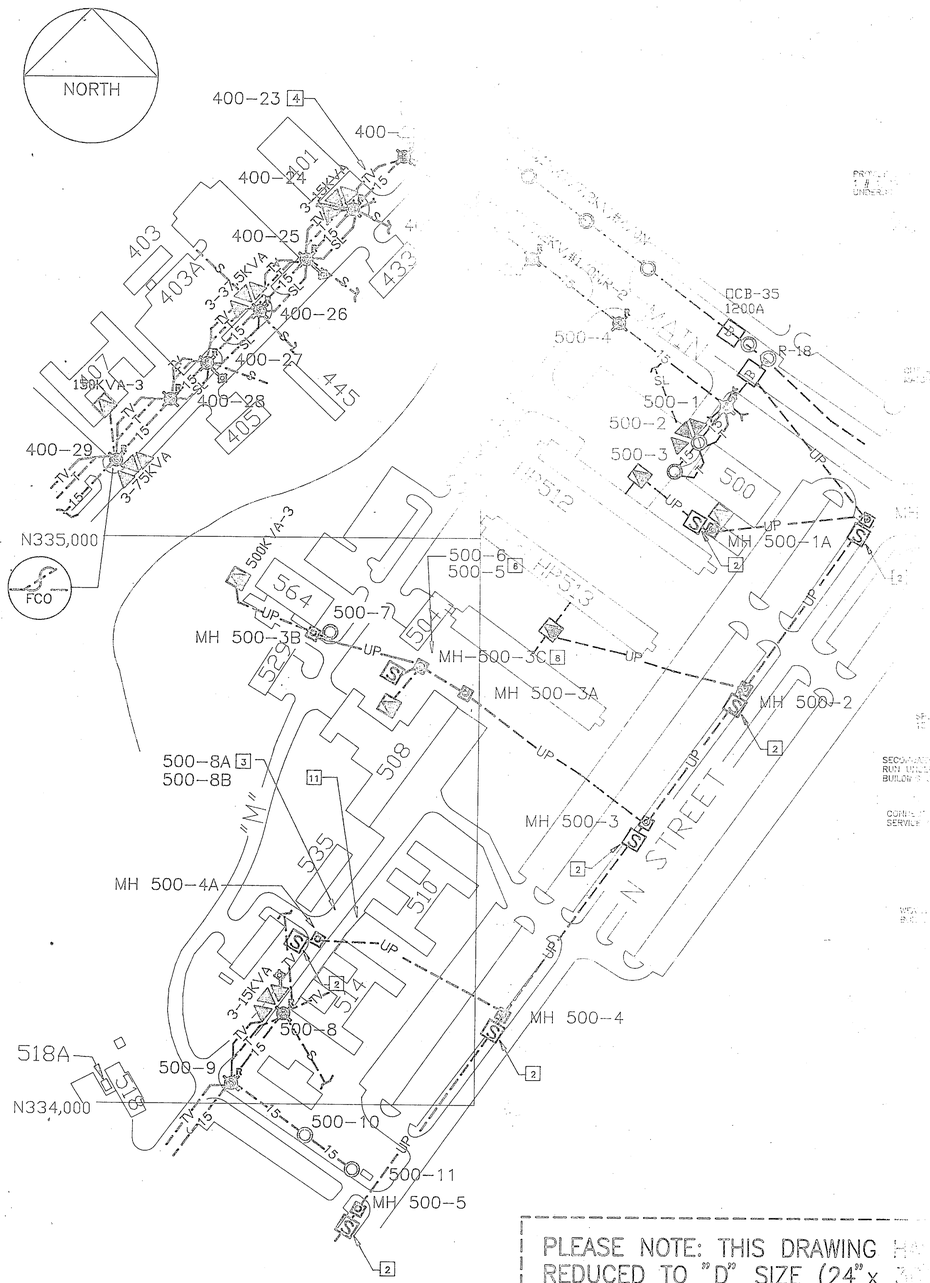
DEPT OF NAVY NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

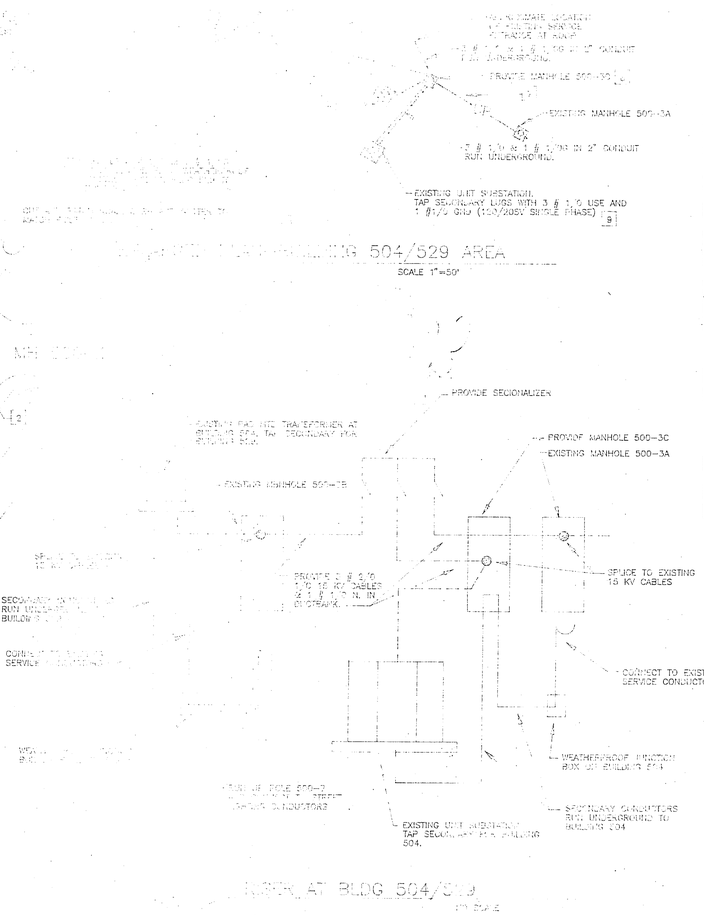
REPLACE MEDIUM VOLTAGE ELECTRICAL DISTRIBUTION SYSTEM, DIVISION [illegible]
MCB CAMP LEJEUNE

ELECTRICAL DISTRIBUTION

SIZE CODE IDENT
F



PLEASE NOTE: THIS DRAWING HA
REDUCED TO "D" SIZE (24"x 3
THE FINAL DRAWING SHALL BE
TO STANDARD "F" SIZE (30"x



SYM.	REVISIONS DESCRIPTION	DATE	APPROVED

POLE NOTES

5 1 — POLE # 400-20
45' CLASS 3, VC9-1, VM2-11

5 1 — POLE # 400-21
45' CLASS 3, VC9-1, VM2-11

5 1 — POLE # 400-22
45' CLASS 1, VC8-1 (ONE DIRECTION ONLY), VC8-1 (ONE DIRECTION ONLY) (BACK CONSTRUCTION), (2)J6, VE1-2, F1-4S, 1-1/2" CONDUIT RISER (CAPPED), TV CLAMP, VM2-11, SPAN GUY ATTACHMENT

1 — POLE # 400-23

5 1 — POLE # 400-24
45' CLASS 3, VC9-1, VG311 (3-25KVA), (2)VE1-2, (2)F1-4S, TV CLAMP, VM2-11

5 1 — POLE # 400-25
45' CLASS 3, VC9-1, (3) J5, ST LT (8" ARM), TEL CLAMP, TV CLAMP

5 1 — POLE # 400-26
45' CLASS 1, VC9-1, VE1-2, F1-4S, VG311 (3-37.5KVA), (2) J6, TEL CLAMP, M8-11 (3-400:5 CT'S & 3 STATOR METER), TV CLAMP, VM2-11

5 1 — POLE # 400-27
45' CLASS 3, VC9-1, (2) J5, ST LT (8" ARM), TEL CLAMP, TV CLAMP, VM2-11

5 1 — POLE # 400-28
45' CLASS 3, VC9-1, J5, TEL CLAMP, TV CLAMP, 1-1/2" CONDUIT RISER (TEL), VM2-11

5 1 — POLE # 400-29
45' CLASS 1, VC9-1, UG TERM W/X-ARM, J5, TEL CLAMP, TV CLAMP, CONDUIT RISER

5 1 — POLE # 500-1
45' CLASS 1, VC8-1, VC8-1 (ONE DIRECTION ONLY), (3) VE1-2, (3) F1-4S, 2-1/2" CONDUIT RISER (TEL), (2) J6, TEL CLAMP, VM2-11

12 5 — POLE # 500-2
40' CLASS 2, VC9-1, VG312 (3-15KVA), (2) J6, TEL CLAMP, VM2-11

12 5 — POLE # 500-3
45' CLASS 3, VC8-1 (ONE DIRECTION ONLY), (2)VE1-2, F1-4S, TEL CLAMP, VM2-11

5 1 — POLE # 500-4
45' CLASS 3, VC9-1, J5, VM2-11

6 — POLE # 400-5

6 — POLE # 400-6

12 5 — POLE # 500-7
45' CLASS 4, (2) J6, 2" CONDUIT RISER (ST LT), TV CLAMP, VM2-11.

5 1 — POLE # 500-8
45' CLASS 1, VC9-1, VG311 (3-37.5KVA), VE1-2, F1-4S, (2) J6, ST LT (8" ARM), TEL CLAMP, TV CLAMP, 1-1/2" CONDUIT RISER (TEL-CAPPED), VM2-11

3 — POLE # 400-8A

3 — POLE # 400-8B

5 1 — POLE # 500-9
45' CLASS 1, VC8-1, VC8-1 (ONE DIRECTION ONLY), TEL CLAMP, TV CLAMP, 1-1/2" CONDUIT RISER (TEL), SPAN GUY, VM2-11

12 5 — POLE # 500-10
45' CLASS 3, VC9-1, VM2-11

12 5 — POLE # 500-11
45' CLASS 3, VC8-1 (ONE DIRECTION ONLY), UG TERM (CUTOUTS & SURGE ARRESTORS ON VC8-1 X-ARM), VE1-2, F1-4S, (2) 4" CONDUIT RISERS, VM2-11

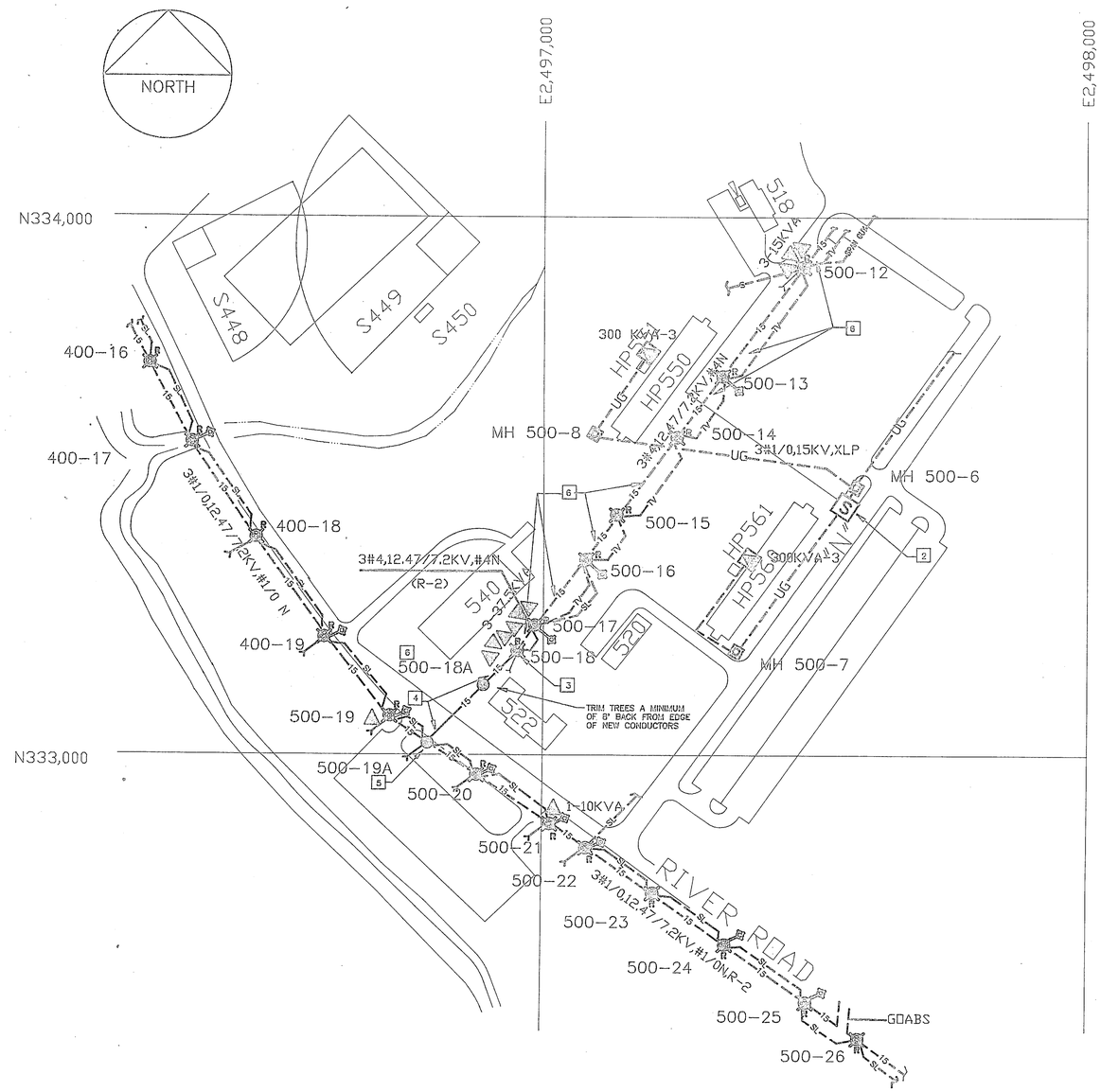
WORK NOTES

1. REMOVE EXISTING POLE AND HARDWARE. PROVIDE NEW POLE AND HARDWARE TO MATCH EXIST. EXCEPT AS NOTED. TRANSFER HV TERMINATORS, TRANSFORMERS AND SECONDARY SERVICE DROPS TO NEW POLE. PROTECT AND RECONNECT EXISTING PRIMARY, SECONDARY TELEPHONE, TV AND STREET LIGHT CONDUCTORS TO NEW POLE.
2. PROVIDE PRIMARY SECTIONALIZER PER DETAIL A/E5/E5. CONNECT SECTIONALIZER TO EXISTING PRIMARY CIRCUIT AS SHOWN ON SPECIFIC MANHOLE DETAIL. SEE MANHOLE DETAILS ON SHEETS E5, E6, E7
4. REMOVE EXISTING POLE AND OVERHEAD LINE. DO NOT REPLACE. TERMINATE OVERHEAD LINE AT POLE 500-[illegible]
5. REMOVE EXISTING POLE AND TRANSFER [illegible] CONDUCTORS TO ADJACENT POLE.
6. PROVIDE POLE CAPS ON ALL EXISTING AND NEW POLES.
8. REMOVE EXISTING POLE. SEE ENLARGED PLAN THIS SHEET FOR RECONNECTION.
7. PROVIDE 2 WAY 4" CONCRETE ENCASED DUCTBANK FROM MANHOLE 500-4A TO MANHOLE 500-4A. PROVIDE WARNING AS [illegible] ON RISER THIS SHEET.
9. PROVIDE MANHOLE 500-4B OVER EXISTING UNDERGROUND DUCT FEEDING THE TRANSFORMER FOR BUILDING 518. CAREFULLY REMOVE DUCT WITHIN MANHOLE TO REUSE CABLES. RECONNECT CABLES AS INDICATED ON RISER, THIS SHEET.
9. PROVIDE SECONDARY WIRING FROM TRANSFORMER TO BUILDING AS INDICATED. RUN CONDUIT UNDERGROUND TO BUILDING. PROVIDE WEATHER-PROOF JUNCTION BOX ABOVE GRADE. RUN CONDUIT UP BUILDING WALL TO EXISTING OVERHEAD SERVICE ENTRANCE. RECONNECT EXISTING SERVICE ENTRANCE CONDUCTORS TO NEW SERVICE WIRES. PROVIDE ENGRAVED SIGN ON J-BOX STATING "SERVICE FROM TRANSFORMER AT BLDG ____"
10. PROVIDE [illegible] CONDUIT FROM TRANSFORMER UP POLE # 500-7 TO STREET LIGHT [illegible] WEATHERHEAD AND CONNECT WIRING TO MAINTAIN STREET LIGHTS CIRCUIT.
11. REPOSE [illegible] CABLE FROM POLE 500-8 TO BUILDING 510. RUN CABLE ON SIDE OF [illegible] MANHOLE AND SPAN BETWEEN BLDG 514 & 510. [illegible] FROM POLE 500-8 TO POLE 500-8A TO POLE 500-8B AND [illegible] BLDG.
12. [illegible]

E-3

NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA
REPLACE HIGH VOLTAGE ELECTRICAL DISTRIBUTION SYSTEM, DIVISION 400 AREA
CAMP LEJEUNE, N.C.

ELECTRICAL DISTRIBUTION PLAN-AREA B



REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED

POLE NOTES

1 POLE # 400-16
45' CLASS 3, VC9-1, (3) J6, VM2-11

1 POLE # 400-17
45' CLASS 3, VC9-1, (2) J5, ST LT (6' ARM), VM2-11

1 POLE # 400-18
45' CLASS 3, VC9-1, (2) J5, VE1-2, F1-4S, VM2-11

1 POLE # 400-19
45' CLASS 3, VC9-1, (2) J5, VE1-2, F1-4S, ST LT (6' ARM), VM2-11

1 POLE # 500-12
50' CLASS 2, VC9-1, VG311 (3-15KVA), J6, SPAN GUY, VE1-2, F1-4S, TV CLAMP W/STUB ARM, VM2-11

1 POLE # 500-13
50' CLASS 2, VC9-1, ST LT (6' ARM), TV CLAMP, 1" CONDUIT RISER (FOR ST LT), VM2-11

1 POLE # 500-14
50' CLASS 2, VC9-1, TV CLAMP, VM2-11

1 POLE # 500-15
50' CLASS 2, VC9-1, TV CLAMP, VM2-11

1 POLE # 500-16
50' CLASS 2, VC9-1, J6, ST LT (6' ARM), TV CLAMP, VM2-11

1 POLE # 500-17
50' CLASS 2, VC9-1, VG311 (3-25KVA)(CO & LA ON VC9-1 X-ARM), (2) J5, ST LT (6' ARM), TV CLAMP, 4" CONDUIT RISER, 1" CONDUIT RISER, VM2-11

1 POLE # 500-18
50' CLASS 2, VC9-1(ONE DIRECTION ONLY), VG311 (3-50KVA), VE1-2, F1-4S, TV CLAMP, 2-1/2" CONDUIT RISER, VM2-11

1 POLE # 500-19
45' CLASS 3, VC9-1, VG167 (1-10KVA), VE1-2, F1-4S, (2) J5, ST LT (6' ARM), VM2-11

1 POLE # 500-20
45' CLASS 3, VC9-1, VE1-2, F1-4S, (2) J5, ST LT (6' ARM), VM2-11

1 POLE # 500-21
45' CLASS 3, VC9-1, VE1-2, F1-4S, (2) J5, ST LT (6' ARM), VM2-11

1 POLE # 500-22
50' CLASS 2, VC9-1, VG19(10KVA), (3) J5, ST LT (6' ARM), VE2, F4S, VM2-11

1 POLE # 500-23
45' CLASS 3, VC9-1, (2) J5

1 POLE # 500-24
45' CLASS 3, VC9-1, VG19 (1-10KVA, 3 PHASE)(CUTOUTS AND SURGE ARRESTORS MTD ON X-ARM), (2) J5, 1-1/4" CONDUIT RISER, VM2-11

1 POLE # 500-25
45' CLASS 3, VC9-1, (2) J5, ST LT (6' ARM), VM2-11

8 1 POLE # 500-26
45' CLASS 1, VC8-1, POLE TOP SWITCH, (2) J5, VM2-11

WORK NOTES

1 REMOVE EXISTING POLE AND HARDWARE. PROVIDE NEW POLE AND HARDWARE TO MATCH EXIST. EXCEPT AS NOTED. TRANSFER HV TERMINATORS, TRANSFORMERS AND SECONDARY SERVICE DROPS TO NEW POLE. PROTECT AND RECONNECT EXISTING PRIMARY, SECONDARY, TELEPHONE, TV, AND STREET LIGHT CONDUCTORS TO NEW POLE. PROVIDE POLE CAPS ON ALL POLES.

2 PROVIDE PRIMARY SECTIONALIZER PER DETAIL A/E3/E5. CONNECT SECTIONALIZER TO EXISTING PRIMARY CIRCUIT AS INDICATED ON SPECIFIC MANHOLE DETAIL. SEE MANHOLE DETAILS ON SHEETS E5, E6, E7.

3 PROVIDE SUSPENSION INSULATORS (3), NEUTRAL DEAD-END BRACKET, AND PIN INSULATORS (4) ON EXISTING CROSSARM TO EXTEND CIRCUIT TO NEW POLE.

4 PROVIDE 4 # 1/0 COPPER OVERHEAD CONDUCTORS.

5 PROVIDE NEW POLE # 500-19A WITH THE FOLLOWING: 45' CLASS 3 POLE, VC9-1, VC8-1 (1 DIRECTION), VE1-2, F1-4S, (2)J5, VM2-11. PROVIDE FUSED CUTOUTS (3) ON VC8-1 CROSSARM AND CONNECT THE EXISTING CIRCUIT TO THE NEW CONDUCTORS VIA THE CUTOUTS.

6 PROVIDE NEW POLE # 500-18A WITH THE FOLLOWING: 45' CLASS 3 POLE, VC9-1, VM2-11.

7 REMOVE 4 # 4 OVERHEAD CONDUCTORS AND PROVIDE 4 # 1/0 OVERHEAD COPPER CONDUCTORS.

8 PROVIDE NEW POLE TOP SWITCH, OPERATING MECHANISM, HANDLE, 3'x 3' GROUND GRID 12" BELOW GRADE AT HANDLE AND ALL MOUNTING HARDWARE. GROUND OPERATING HANDLE TO GROUND GRID.

PLEASE NOTE: THIS DRAWING HAS BEEN REDUCED TO "D" SIZE (24"x 36") THE FINAL DRAWING SHALL BE ENLARGED TO STANDARD "F" SIZE (30"x 42")

GRAPHIC SCALE

0' 50' 100' 150' 200' 250' 300' 1"=100'

E-4

AMERICAN CONSULTING ENGINEERS

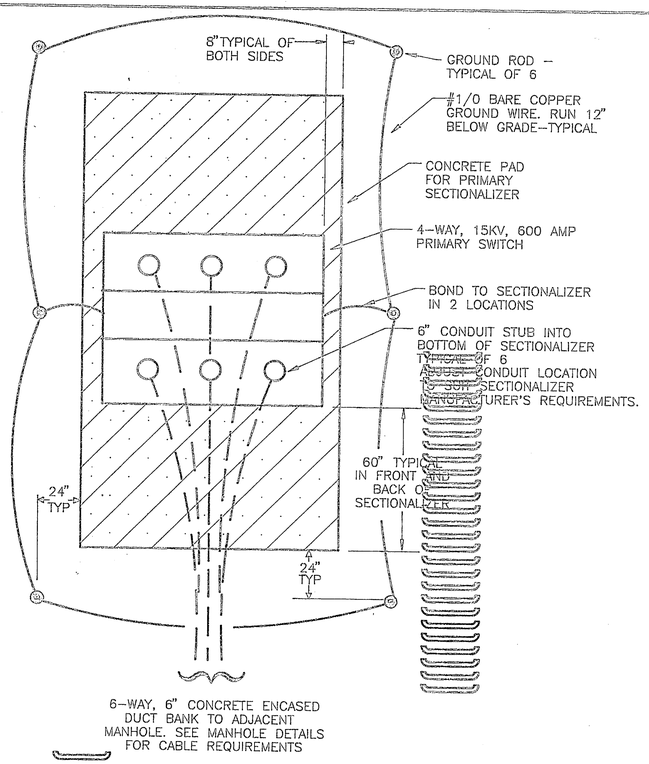
DES
DR
CHK
SUBMITTED BY:
DESIGN DIR:
APPROVED: PWO OR OICC DATE
SATISFACTORY TO DATE

DEPT OF NAVY NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

REPLACE MEDIUM VOLTAGE ELECTRICAL DISTRIBUTION SYSTEM, DIVISION 400 AREA MCB CAMP LEJEUNE, N.C.

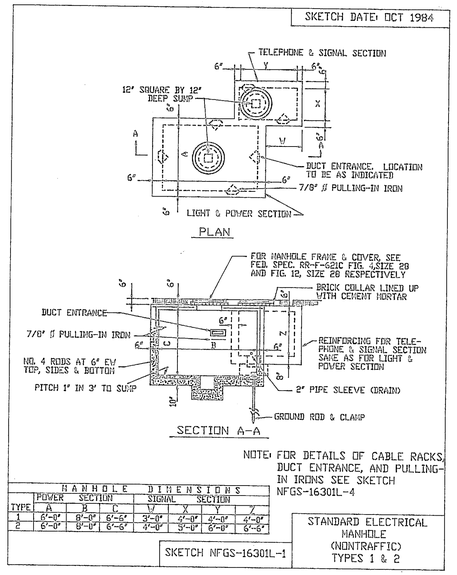
ELECTRICAL DISTRIBUTION PLAN-AREA C

SIZE F | CODE IDENT. NO. 80091 | NAVFAC DRAWING NO.
CONSTR. CONTR. NO.
SCALE: GRAPHIC SPEC. SHEET OF



PRIMARY SECTIONALIZER PLAN VIEW (A / E5 E5)

NO SCALE

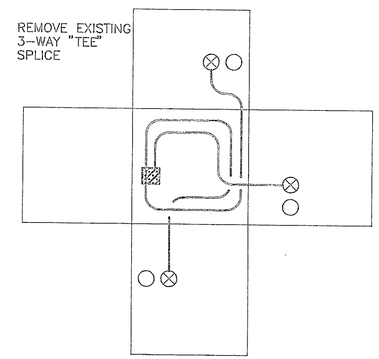


MANHOLE DIMENSIONS								
	POWER SECTION			SIGNAL SECTION				
TYPE	A	B	C	V	X	Y	Z	
1	6'-0"	8'-0"	6'-6"	3'-0"	4'-0"	4'-0"	4'-0"	
2	6'-0"	8'-0"	6'-6"	4'-0"	3'-0"	6'-0"	6'-6"	

NOTE: PROVIDE TYPE 1 MANHOLES, POWER SECTION ONLY. SIGNAL SECTION IS NOT REQUIRED.

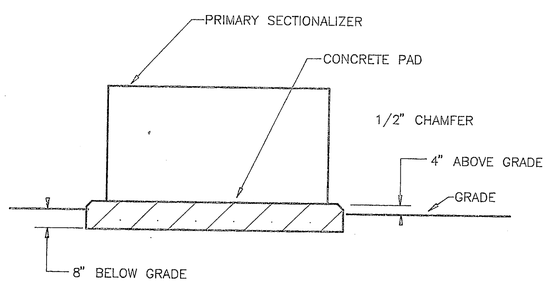
NEW MANHOLE DETAIL (B / E5 E5)

REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED



MANHOLE 400–11 EXISTING CONDITIONS

NO SCALE



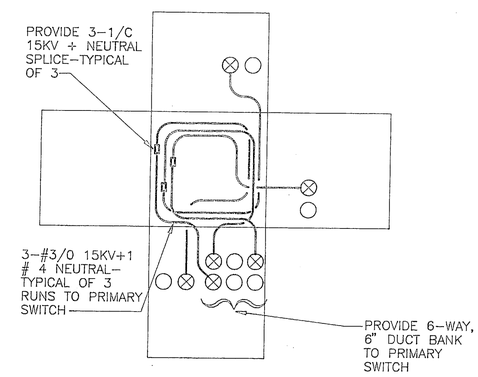
PRIMARY SECTIONALIZER ELEVATION (1 / E5 E5)

NO SCALE

ADDITIVE BID ITEM NOTE

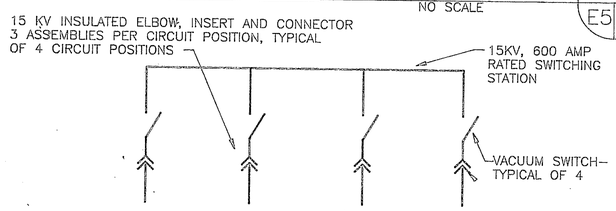
AS PART OF THE BASE BID PROVIDE A SECTIONALIZER TERMINAL WHERE THE TREM "SECTIONALIZER" IS USED.

AS ADDITIVE BID ITEM 1, PROVIDE A SECTIONALIZER SWITCH IN LIEU OF A SECTIONALIZER TERMINAL WHERE THE TERM "SECTIONALIZER" IS USED.



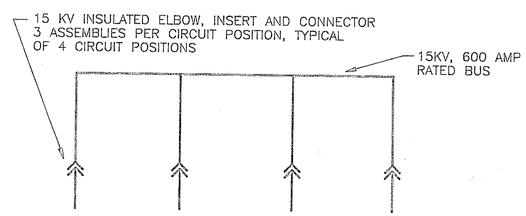
MANHOLE 400–11 NEW CONDITIONS

NO SCALE



SECTIONALIZER SWITCH DIAGRAM

NO SCALE



SECTIONALIZER TERMINAL DIAGRAM

NO SCALE

E-5

AMERICAN CONSULTING ENGINEERS

DES
DR
CHK
SUBMITTED BY:
DESIGN DIR:
APPROVED: PWO OR OICC DATE
SATISFACTORY TO DATE

DEPT OF NAVY — NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

REPLACE MEDIUM VOLTAGE ELECTRICAL DISTRIBUTION SYSTEM, DIVISION 400 AREA MCB CAMP LEJEUNE, N.C.

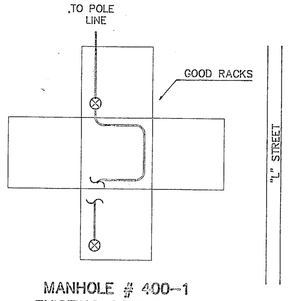
DETAILS

SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.
F	80091	

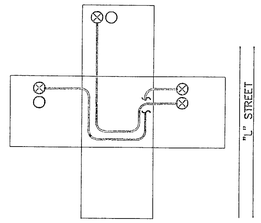
CONSTR. CONTR. NO.

SCALE: GRAPHIC SPEC. SHEET OF

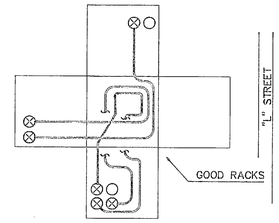
REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED



MANHOLE # 400-1
EXISTING CONDITIONS
NO SCALE

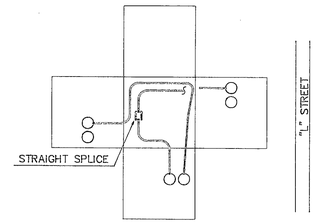


MANHOLE # 400-5
EXISTING CONDITIONS
NO SCALE

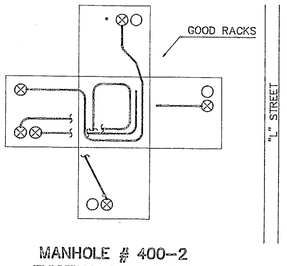


START WITH M.H. #8 IN "I" ST.

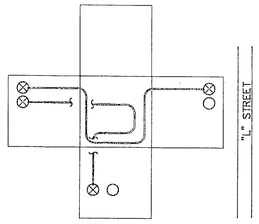
MANHOLE # 400-8
EXISTING CONDITIONS
NO SCALE



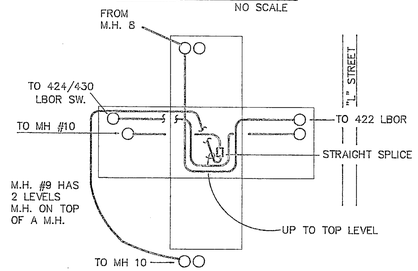
MANHOLE # 400-12
EXISTING CONDITIONS
NO SCALE



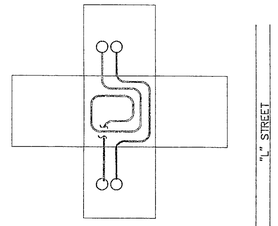
MANHOLE # 400-2
EXISTING CONDITIONS
NO SCALE



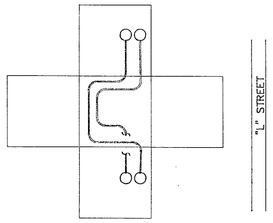
MANHOLE # 400-6
EXISTING CONDITIONS
NO SCALE



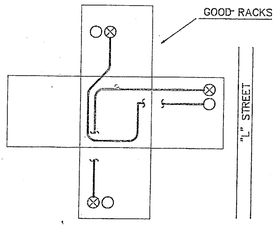
MANHOLE # 400-9
EXISTING CONDITIONS
NO SCALE



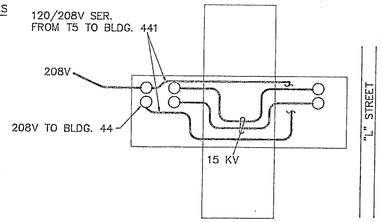
MANHOLE # 400-13
EXISTING CONDITIONS
NO SCALE



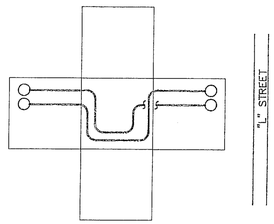
MANHOLE # 400-16
EXISTING CONDITIONS
NO SCALE



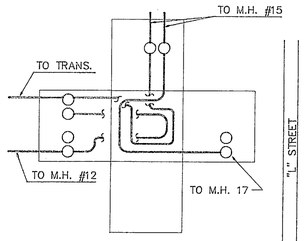
MANHOLE # 400-3
EXISTING CONDITIONS
NO SCALE



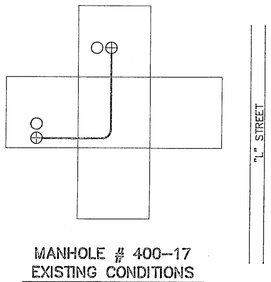
MANHOLE # 400-6A
EXISTING CONDITIONS
NO SCALE



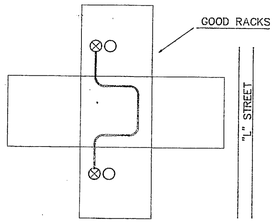
MANHOLE # 400-9A
EXISTING CONDITIONS
NO SCALE



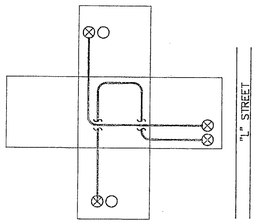
MANHOLE # 400-14
EXISTING CONDITIONS
NO SCALE



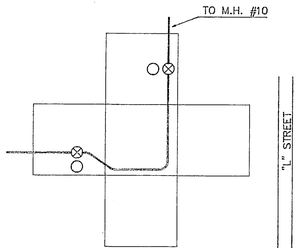
MANHOLE # 400-17
EXISTING CONDITIONS
NO SCALE



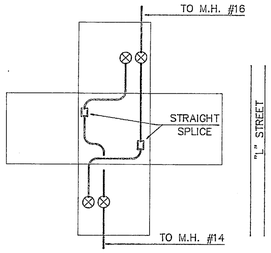
MANHOLE # 400-4
EXISTING CONDITIONS
NO SCALE



MANHOLE # 400-7
EXISTING CONDITIONS
NO SCALE



MANHOLE # 400-11
EXISTING CONDITIONS
NO SCALE



MANHOLE # 400-15
EXISTING CONDITIONS
NO SCALE

E-6

AMERICAN CONSULTING ENGINEERS

DEPT OF NAVY — NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

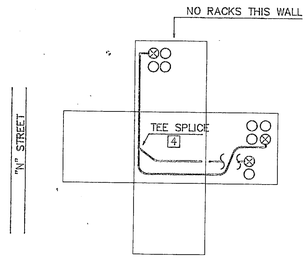
REPLACE MEDIUM VOLTAGE ELECTRICAL DISTRIBUTION SYSTEM, DIVISION 400 AREA
MCB CAMP LEJEUNE, N.C.

MANHOLE DETAILS

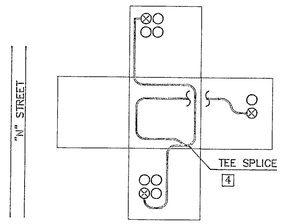
DES
DR
CHK
SUBMITTED BY:
DESIGN DIR:
APPROVED: PWO OR OICC — DATE
SATISFACTORY TO — DATE

SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.
F	80091	CONSTR. CONTR. NO.
SCALE: GRAPHIC	SPEC.	SHEET OF

REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED



MANHOLE # 500-1
EXISTING CONDITIONS
NO SCALE



MANHOLE # 500-2
EXISTING CONDITIONS
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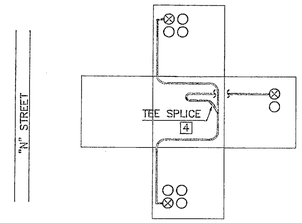

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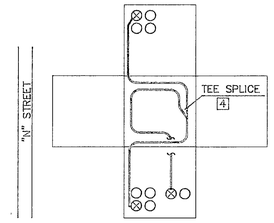

MANHOLE # 500-4
EXISTING CONDITIONS
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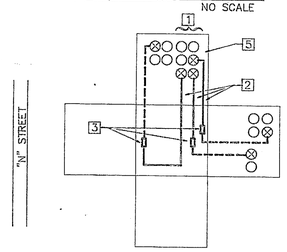
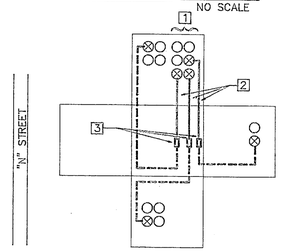


MANHOLE # 500-1
NEW CONDITIONS
NO SCALE



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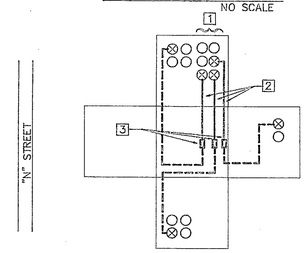

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NEW CONDITIONS
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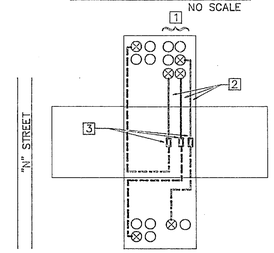

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NEW CONDITIONS
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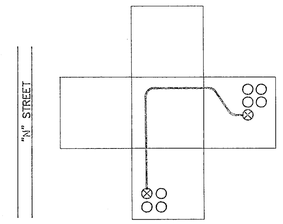
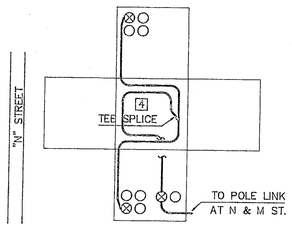
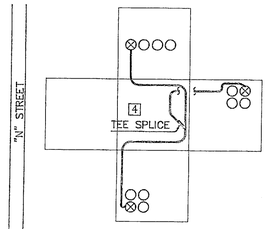


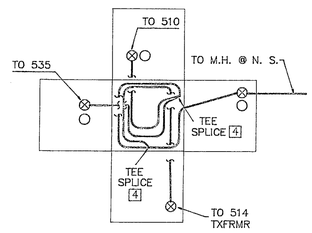
MANHOLE # 500-7
EXISTING CONDITIONS
NO SCALE



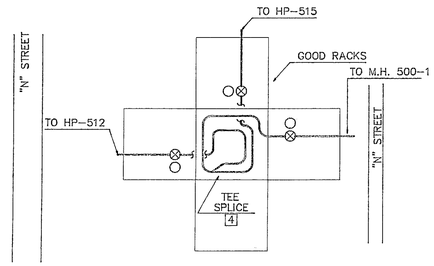
MANHOLE # 500-5
EXISTING CONDITIONS
NO SCALE



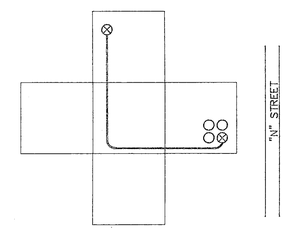
MANHOLE # 500-6
EXISTING CONDITIONS
NO SCALE



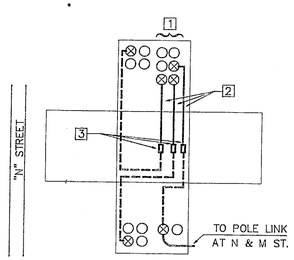
MANHOLE # 500-4A
EXISTING CONDITIONS
NO SCALE



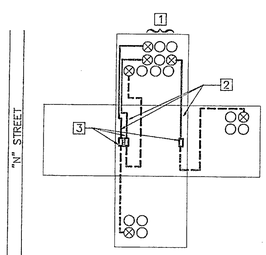
MANHOLE # 500-1A
EXISTING CONDITIONS
NO SCALE



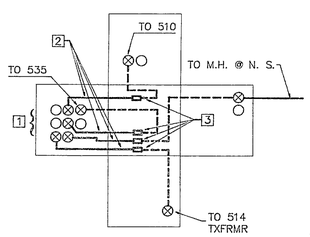
MANHOLE # 500-6
BEHIND HP-550
EXISTING CONDITIONS
NO SCALE



MANHOLE # 500-5
NEW CONDITIONS
NO SCALE



MANHOLE # 500-6
NEW CONDITIONS
NO SCALE



MANHOLE # 500-4A
NEW CONDITIONS
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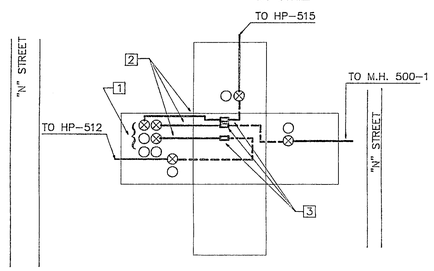
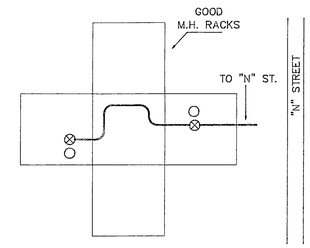


MANHOLE # 500-1A
NEW CONDITIONS
NO SCALE



MANHOLE # 500-3A
EXISTING CONDITIONS
NO SCALE

WORK NOTES:

1. PROVIDE 6-WAY, 6" DUCT BANK TO PRIMARY SECTIONALIZER.
2. PROVIDE 3-#3/0 15 KV + 1 # 4 NEUTRAL CABLE TO PRIMARY SECTIONALIZER. ROUTE CABLE A MINIMUM OF 3/4 TURN AROUND MANHOLE TO ALLOW SLACK FOR FUTURE REQUIREMENTS.
3. PROVIDE 3-1/C 15 KV + NEUTRAL SPLICE.
4. REMOVE EXISTING 3-WAY TEE SPLICE.
5. PROVIDE 2 ADDITIONAL CABLE RACKS ON WALL OF MANHOLE.

E-7

AMERICAN CONSULTING ENGINEERS

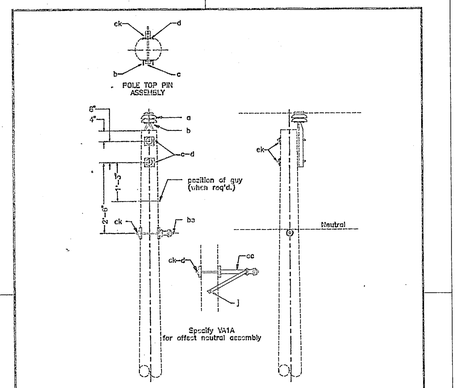
DES
DR
CHK
SUBMITTED BY:
DESIGN DIR:
APPROVED: PWO OR OICC DATE
SATISFACTORY TO DATE

DEPT OF NAVY NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

REPLACE MEDIUM VOLTAGE ELECTRICAL DISTRIBUTION SYSTEM, DIVISION 400 AREA
MCB CAMP LEJEUNE, N.C.

MANHOLE DETAILS

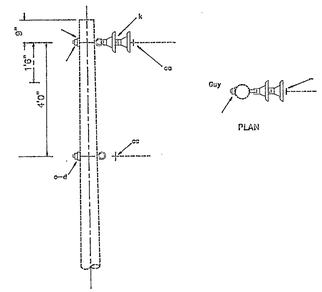
SIZE F | CODE IDENT. NO. 80091 | NAVFAC DRAWING NO.
CONSTR. CONTR. NO.
SCALE: GRAPHIC SPEC. SHEET OF



ITEM	NO.	MATERIAL	ITEM	NO.	MATERIAL
a	1	Insulator, pin type	d	3	Washer, square, 2-1/4"
b	1	Pin, pole top, 20"	ba	1	Bolt, single upset, insulated
c	2	Bolt, machine, 5/8" x req'd. length	ck		Locknuts
j	2	Screw, lag, 1/2"x4" (VA1A only)			
cc	1	Bracket, offset, insulated (VA1A only)			

14.4/24.9 KV PRIMARY, 1-PHASE, 0° TO 5° ANGLE
SINGLE PRIMARY AND NEUTRAL SUPPORTS

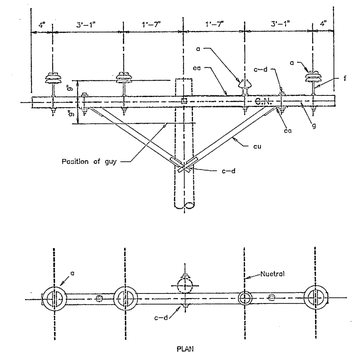
Jan 1, 1963 — VA1, VA1A



ITEM	NO.	MATERIAL	ITEM	NO.	MATERIAL
d	2	Washer, square 2 1/4"	cc	1	Deadend assembly, neutral
k	2	Insulator, suspension, 10"	ck		Locknuts
o	2	Bolt, eye, 5/8" x req'd. length			
ca	1	Deadend assembly, primary			

14.4/129 KV PRIMARY
1-PHASE, DEADEND (SINGLE)

Jan 1, 1963 — VA5



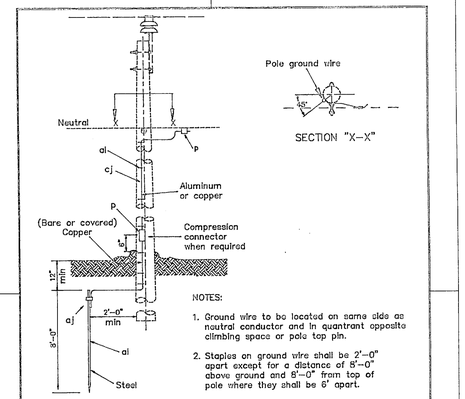
ITEM	NO.	MATERIAL	ITEM	NO.	MATERIAL
e	3	Insulator, pin type	f	3	Pin, crossarm, steel, 5/8" x 14"
o	1	Insulator, pin type, 12.5 KV	f	1	Pin, crossarm, steel 5/8" x 10 3/4"
c	2	Bolt, machine, 5/8" x req'd. length	g	1	Crossarm, 3 3/4"x4 3/4"x10'-0"
c	2	Bolt, machine, 1/2" x req'd. length	cu	1	Brace, crossarm, wood, 60" span
d	3	Washer, square, 2 1/4"	ec	4	Latters, 2 "C", 2 "N", with 1" nails
d	2	Washer, round, 1 3/8"	ek		Locknuts

14.4/24.9 KV, 3- PHASE
CROSSARM CONSTRUCTION-SINGLE LINE ARM

Jan 1, 1963 — VC9-1

REVISIONS

SYM.	DESCRIPTION	DATE	APPROVED



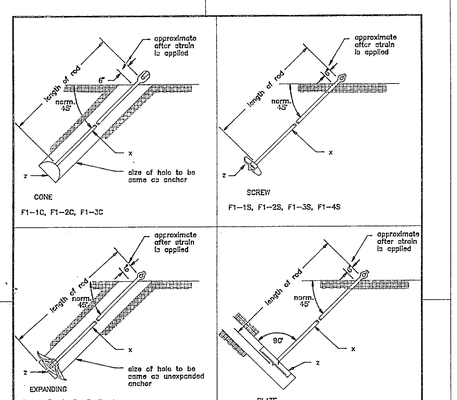
NOTES:

1. Ground wire to be located on same side as neutral conductor and in quadrant opposite climbing space or pole top pin.
2. Staples on ground wire shall be 2'-0" apart except for a distance of 5'-0" above ground and 8'-0" from top of pole where they shall be 6" apart.

ITEM	NO.	MATERIAL	ITEM	NO.	MATERIAL
p		Connectors, as required	cj		Ground wire, No. 6 copper or equiv.
					conductivity, as required
cl	1	Rod, ground, steel, 5/8" dia. min.			
aj	1	Clamp, ground rod			
cl		Staples, ground wire, as required			

GROUNDING ASSEMBLY - GROUND ROD TYPE

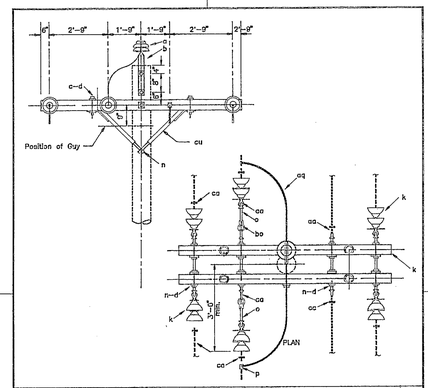
Apr. 1989 — VM2-11



	ASSEMBLY UNIT							
	F1-1		F1-2		F1-3		F1-4	
Holding Power in Ordinary Soil (pounds)	6000		8000		10000		12000	
ITEM	MATERIAL	NO.		NO.		NO.		NO.
x	Rod, anchor, thimble eye	1	5/8"x7'-0"	1	5/8"x7'-0"			
x	Rod, anchor, twin eye					1	3/4"x8'-0"	1 3/4"x8'-0"
z	Anchor_____ type	1		1		1		1

LINE ANCHOR ASSEMBLIES

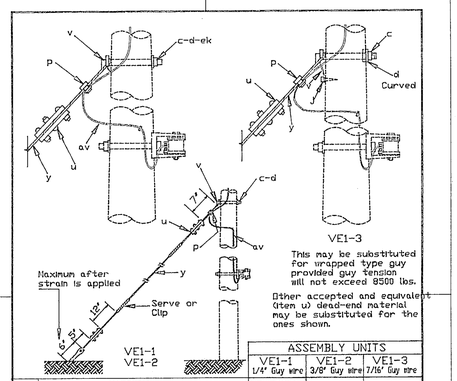
Jan 1, 1962 — F1-1 TO 4



ITEM	NO.	MATERIAL	ITEM	NO.	MATERIAL
a	1	Insulator , pin type	o	2	Bolt, eye, 5/8" x required length
c	2	Bolt, machine, 5/8" x req'd. length	p		Connectors, as required
c	4	Bolt, machine, 1/2" x req'd. length	aq	10	Nut, eye, 5/8"
d	4	Washer, round, 1 3/8" diameter	aq		Jumpers or lead as required
d	20	Washer, square, 2 1/4"	bo	2	Shackle, anchor
b	1	Pin, pole top, 20"	ca	6	Deadend assembly, primary
g	2	Crossarm, 3 3/4" x 4 3/4" x10'-0"	cc	2	Deadend assembly, neutral
k	12	Insulator, suspension, 10"	cu	2	Brace, crossarm, wood, 60" span
n	6	Bolt, double arming, 5/8" x req'd. length	ek		Locknuts

14.4/24.9 KV, 3- PHASE
CROSSARM CONSTRUCTION - DEADEND (DOUBLE)

Jan 1, 1963 — VC8-1



	ASSEMBLY UNITS		
	VE1-1 1/4" Guy wire	VE1-2 3/8" Guy wire	VE1-3 7/16" Guy wire
ITEM MATERIAL	NO. REQ'D.	NO. REQ'D.	NO. REQ'D.
c Bolt, machine, 5/8" x required length	1	1	1
d Washer, square, 2 1/4"	1	1	
d Washer, curved, 3" x 3"			1
j Screw, lag, 1/2" x 4"			1
p Connectors, as required			
u Deadend for guy strand	2 - Light Duty	2 - Heavy Duty	2 - Heavy Duty
v Guy attachment	1	1	1 - Heavy Duty
y Guy wire, S.M., 7 Strand	req'd. length	req'd. length	req'd. length
ck Clamp, anchor rod bending	1	1	1
av Jumper, No. 4 stranded Al. alloy or equiv.	1	1	1
ek Locknuts			

14.4/24.9 KV
SINGLE DOWN GUY, THROUGH BOLT TYPE

July 12, 1968 — VE1-1,VE1-2,VE1-3

E-8

AMERICAN CONSULTING ENGINEERS

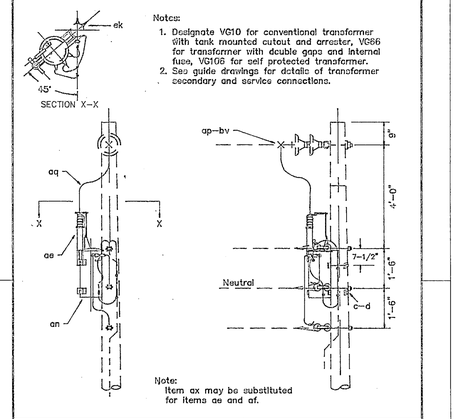
DEPT OF NAVY — NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

REPLACE MEDIUM VOLTAGE ELECTRICAL DISTRIBUTION SYSTEM, DIVISION 400 AREA
MCB CAMP LEJEUNE, N.C.

POLE DETAILS

DES JMW
DR CAD
CHK JMW
SUBMITTED BY:
DESIGN DIR:
APPROVED: PWO OR OICC DATE
SATISFACTORY TO DATE

SIZE F — CODE IDENT. NO. 80091 — NAVFAC DRAWING NO.
CONSTR. CONTR. NO. N62470-91-B-7373
SCALE: GRAPHIC — SPEC. 05-91-7373 — SHEET OF



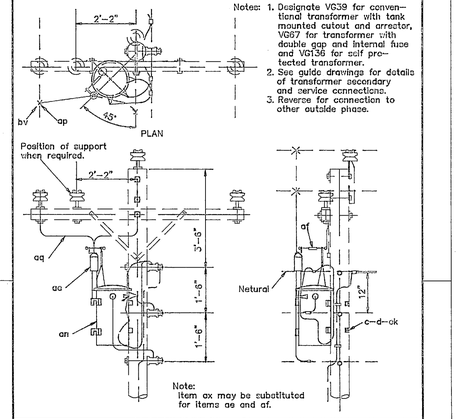
Notes:
1. Designate VG10 for conventional transformer with tank mounted cutout and arrester, VG66 for transformer with double gaps and internal fuse, VG106 for self protected transformer.
2. See guide drawings for details of transformer secondary and service connections.

Note:
Item ax may be substituted for items ae and af.

ITEM	NO.	MATERIAL	ITEM	NO.	MATERIAL
c	2	Bolt, machine, 5/8" x req'd. length	cn	1	Transformer
d	2	Washer, square, 2 1/4"	ap	1	Clamp, hot line, tap assembly
p		Connectors, as required	aq		Jumpers, stranded, as required
ae	1	Lightning arrester (VG10 only)	bv	1	Rods, armor
af	1	Cutout, face, open link (VG10 only)	ek		Locknuts

14.4/24.9 KV.
SINGLE PHASE TRANSFORMER
AT DEADEND

Jan 1, 1963 — VG10,VG66,VG106



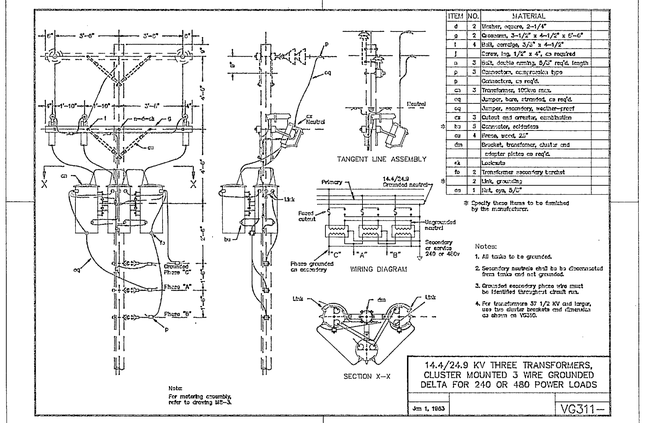
Notes:
1. Designate VG39 for conventional transformer with tank mounted cutout and arrester, VG67 for transformer with double gap and internal fuse and VG136 for self protected transformer.
2. See guide drawings for details of transformer secondary and service connections.
3. Reverse for connection to other outside phase.

Note:
Item ax may be substituted for items ae and af.

ITEM	NO.	MATERIAL	ITEM	NO.	MATERIAL
c	2	Bolt, machine, 5/8" x req'd length	aq		Jumpers, stranded, as required
d	2	Washer, square 2 1/4"	af	1	Cutout, face, open link (VG 39 only)
p		Connectors, as required	ae	1	Lightning arrester (VG 39 only)
an	1	Transformer	bv	1	Rods, armor
ap	1	Clamp, hot line, tap assembly	ek		Locknuts

14.4 / 24.9 KV.
SINGLE PHASE TRANSFORMER
ON THREE PHASE CIRCUIT

Jan. 1, 1963 — VG39–VG67–VG136



ITEM	NO.	MATERIAL
d	2	Washer, square, 2-1/4"
g	5	Washers, 3-1/2" x 4-1/2" x 0'-6"
i	4	Bolt, carriage, 3/8" x 4-1/2"
j		Screw, lag, 1/2" x 4", as required
n	3	Bolt, machine carriage, 5/8" req'd length
p	3	Connectors, compression type
q		Connectors, as req'd.
cn	3	Transformer, 100kva max.
cq		Jumper, bare, stranded, as req'd.
aq		Jumper, insulated, neutral-ground
ex	3	Cutout and arrester, combination
bs	3	Connector, compression
ap	4	Clamp, wire, 3/0"
dm		Bracket, transformer, cluster and arrester plates as req'd.
ek		Locknuts
fo	3	Transformer secondary bracket
	2	Link, grounding
ea	1	Bolt, eye, 5/8"

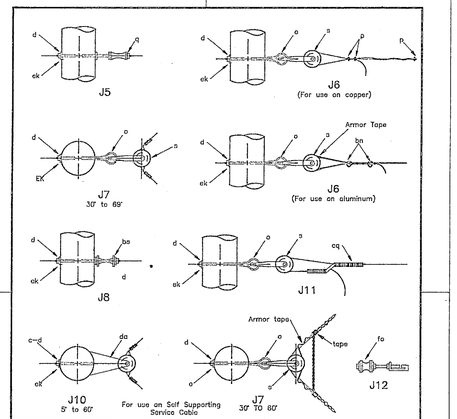
* Crosby clamps shown to be furnished by the manufacturer.

Notes:
1. All tanks to be grounded.
2. Secondary neutrals shall be be disconnected from tanks and not grounded.
3. Grounded secondary phase wire must be identified throughout circuit run.
4. For transformers 37 1/2 KV and larger, use ten stacker brackets and dimensions as shown on VG100.

14.4/24.9 KV THREE TRANSFORMERS, CLUSTER MOUNTED 3 WIRE GROUNDED DELTA FOR 240 OR 480 POWER LOADS

Jan 1, 1963 — VG311–

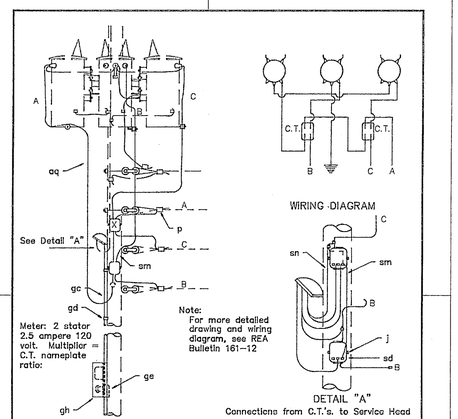
Note:
For metering assembly, refer to drawing M5–3.



ITEM	NO.	MATERIAL	ITEM	NO.	MATERIAL
c		Bolt, machine, 5/8" x req'd. length	ba		Bolt, single upset insulated
d		Washer,2 1/4"x2 1/4"x3/16", 13/16"hole	bn		Clamp, loop, deadend
e		Bolt, eye, 5/8" x req'd. length	cq		Sleeve, offset, splicing
p		Connectors, as required	da		Bracket, insulated
q		Bolt, double upset, insulated	fo		Transformer secondary bracket
a		Clevis, secondary, swinging, insulated	ek		Locknuts

SECONDARY ASSEMBLIES

Jan 1, 1963 — J5 to J12



Meter: 2 stator 2.5 ampere 120 volt. Multiplier = C.T. nameplate ratio:

Note:
For more detailed drawing and wiring diagram, see REA Bulletin 161–12

ITEM	NO.	MATERIAL	ITEM	NO.	MATERIAL
j	4	Screw, lag	gh	1	Meter box, meter and test block
p		Connectors, as required	cd	2	Transformer, current
cq		Jumpers, insulated	sm		Wire, no. 12, insul. for current
gc		Conduit, 1–1/4", as required	sn		Wire, No. 14, insul. for potential
gd		Straps, conduit, as required		1	Service Head
ge	1	Conduit, type "LB"			

SECONDARY METERING GUIDE
THREE PHASE, 120/208 VOLTS
4 GROUNDED WIRE WYE

Jan 1, 1962 — M–811

REVISIONS

SYM.	DESCRIPTION	DATE	APPROVED

E-9

AMERICAN CONSULTING ENGINEERS

DEPT OF NAVY — NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

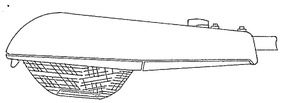
DES JMW
DR CAD
CHK JMW
SUBMITTED BY:
DESIGN DIR:
APPROVED: PWO OR OICC — DATE
SATISFACTORY TO — DATE

REPLACE MEDIUM VOLTAGE ELECTRICAL DISTRIBUTION SYSTEM, DIVISION 400 AREA
MCB CAMP LEJEUNE, N.C.

POLE DETAILS

SIZE F — CODE IDENT. NO. 80091 — NAVFAC DRAWING NO.
CONSTR. CONTR. NO. N62470–91–B–7373
SCALE: GRAPHIC — SPEC. 05–91–7373 — SHEET — OF

REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED



LUMINAIRE REQUIREMENTS

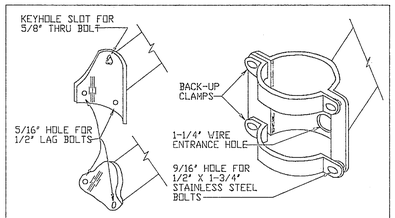
1. REFRACTOR - PRISMATIC GLASS, EXCEPT AS INDICATED.
2. REFLECTOR - ANODIZED ALUMINUM.
3. HOUSING - DIE CAST ALUMINUM, W/BAKED ENAMEL GREY FINISH.
4. HINGED ALUMINUM DOOR WITH GASKET AND LATCH.
5. INTEGRAL BALLAST - TYPE AND VOLTAGE AS SPECIFIED.
6. ALL HARDWARE, STAINLESS STEEL, OR NONCORROSIVE.
7. ADJUSTABLE PORCELAIN SOCKET.
8. 1-1/4" TO 2", SLIPFITTER - 2 OR 4 BOLT.
9. PHOTOCELL, WHEN INDICATED.
10. LAMP - 70-WATT TO 400-WATT HIGH PRESSURE SODIUM - WATTAGE AS SPECIFIED.
11. LEVEL INDICATOR.
12. UL LISTED - SUITABLE FOR OUTDOOR WET LOCATIONS.

NOTE: I.E.S. TYPE DISTRIBUTION AS SPECIFIED ON PLANS.

MAX. E.P.A. 1.3 SQ. FT.

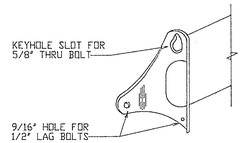
Roadway And Area Light

Sketch Date	May 1989	Style	XL-4



MOUNTING PLATE FOR TRUSS MEMBER TAPERED ELLIPTICAL ARM "A"

MOUNTING PLATE FOR SINGLE MEMBER TAPERED ELLIPTICAL ARM "B"



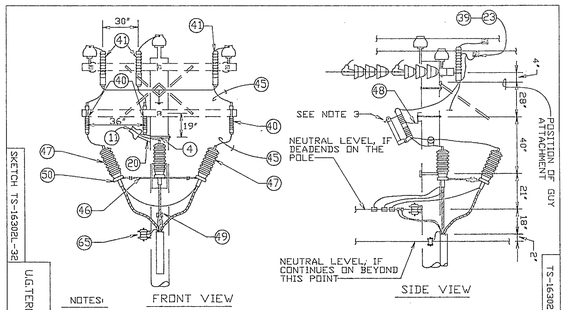
NOTE:
TYPES "A" & "C" ARE FOR WOOD POLES, TYPE "B" IS FOR CONCRETE OR STEEL POLES.

MOUNTING PLATE FOR SINGLE MEMBER TAPERED ELLIPTICAL ARM "C"

Various Luminaire Mounting Arm Types

Sketch Date	May 1989	Style	XL-29

STREET LIGHTING FIXTURES SHALL BE IN ACCORDANCE WITH STYLE XL-4, 250 WATT HIGH PRESSURE SODIUM. PROVIDE 6' MOUNTING ARMS WITH EACH FIXTURE. ARM MOUNTING ATTACHMENT IS INDICATED BY SKETCH STYLE XL-29.



NOTES:

1. MODIFY POSITION OF TERMINAL ON DEADENDS TO BE UNDER THE CONDUCTORS AND THE CUTOUTS TO BE ON THE BACKSIDE OF CROSSARM. POLE RISER MUST BE OFFSET TO CLEAR NEUTRAL CLEVIS BRACKET.
2. CONNECT SURGE ARRESTER ON LINE SIDE (AHEAD) OF FUSED CUTOUT. CONNECT BOTTOM LEAD OF ARRESTER DIRECTLY TO POLE GROUND.
3. MODIFY CUTOUT, IF REQUIRED, TO PROVIDE SOLID BLADE IN LIEU OF FUSE TO COORDINATE WITH DESIGN INFORMATION PROVIDED ON SITE PLAN.

SKETCH TS-16302L-3E

UGTERMINAL (S-25KV)

TS-16302L (JANUARY 1988)

POLE LINE MATERIAL LIST — TS-16302L (JANUARY 1988)

1. FLAT STEEL BRACE (TWO PIECES)
2. MACHINE BOLT, 3/8" X LENGTH NEEDED WITH WASHER, NUT AND LOCKWASHER
3. 8' WOOD CROSSARM
4. MACHINE BOLT, 5/8" X LENGTH NEEDED WITH WASHER, NUT AND LOCKWASHER
5. TIMBER CONNECTOR
6. LAGSCREW, 1/2" X 4"
7. ANGLE STEEL BRACE (TWO PIECES)
8. MACHINE BOLT, 1/2" X LENGTH NEEDED, WITH WASHER, NUT & LOCKWASHER
9. DEADEND BOX
10. STEEL PIN
11. PIN INSULATOR
12. GRID GAIN USED ONLY WHEN THERE IS NO POLE GAIN
13. ANGLE STEEL BRACE (ONE PIECE)
14. 10' WOOD CROSSARM
15. 5/8" EYE NUT
16. 5/8" EYE BOLT, LENGTH AS NEEDED, WITH WASHER, NUT & LOCKWASHER
17. EXTENSION LINK
18. BELL TYPE SUSPENSION INSULATOR WITH CONNECTING HARDWARE
19. STRAIN CLAMP
20. STEEL ANGLE PIN
21. CLUSTER MOUNTING BRACKET, STEEL
22. TRANSFORMER GROUNDING CONNECTION
23. STIRRUP
24. SECONDARY LEAD SUPPORT BRACKET
25. ADAPTER PLATE FOR CLUSTER MOUNTING
26. CLEVIS BRACKET FOR SPOOL INSULATOR
27. SPOOL INSULATOR
28. U BOLT CLAMP
29. PREFORMED GUY GRIP
30. GUY HOOK
31. GUY STRAIN INSULATOR
32. GUY WIRE, SIZE AS SPECIFIED
33. #4 WP CU. SOFT DRAWN GROUND WIRE
34. GROUND CLAMP
35. CONDUIT COUPLING
36. CONDUIT BEND
37. INSULATED BUSHING
38. PERFORATED STRAPPING, 1-1/2" WIDE
39. HOT LINE CLAMP
40. FUSED CUTOUT, AS SPECIFIED
41. SURGE ARRESTER, AS SPECIFIED
42. POLE TOP PIN (RIDGE PIN) - 24 INCHES LONG
43. CROSSARM ANGLE PIN
44. ANGLE POLE TOP PIN
45. SOFT DRAWN WIRE-SIZE
    (a) TO MATCH OR EXCEED AMPACITY OF CONNECTING CABLE; OR
    (b) AT 125% OF TRANSFORMER FULL LOAD CURRENT, BUT NOT LESS THAN NO. 4 A.W.G.

SKETCH TS-16302L-1.5 — POLE LINE MATERIAL LIST

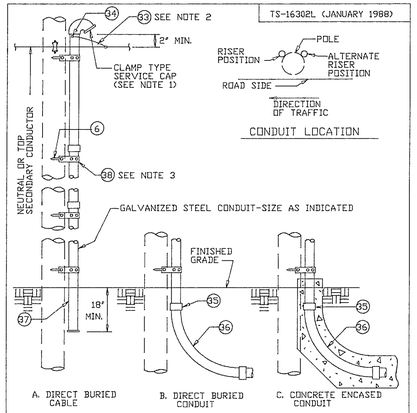
TS-16302L (JANUARY 1988)

POLE LINE MATERIAL LIST

46. TRI-MOUNT BRACKET
47. TERMINATOR, PORCELAIN HOUSED
48. MOUNTED BRACKET
49. CABLE GRIP HANGER
50. HOSE CLAMP
51. STUD, 3/4" X 1-3/4"
52. LINE POST INSULATOR
53. TRIPLE INSULATOR BRACKET
54. ANGLE CLAMP
55. INSULATOR, LINE POST CLAMP
56. 4' CROSSARM
57. CROSSARM GAIN BRACKET
58. PULLEY BRACKET
59. WEDGE CLAMP
60. MIDSPAN SERVICE CLAMP
61. STUD, 7"
62. SADDLE, ANGLE
63. SADDLE CROSSARM
64. FITTING, POLE TOP
65. CONNECTOR
66. SUSPENSION CLAMP
67. TIE, SERVICE CABLE
68. 54" FIBERGLASS STRAIN INSULATOR

SKETCH TS-16302L-1.5A — POLE LINE MATERIAL LIST

TS-16302L (JANUARY 1988)



NOTES

1. ON CONDUIT RISER FOR PRIMARY CIRCUITS, ELIMINATE SERVICE CAP AND PROVIDE GROUNDING TYPE INSULATING BUSHING.
2. CONNECT TO GROUNDED NEUTRAL OR PROVIDE GROUND PER SPECIFICATIONS.
3. SPACE STRAPS AT MAXIMUM OF 4' INTERVALS.

SKETCH TS-16302L-35 — CONDUIT RISER (SIZE & TYPE AS INDICATED)

SAG TABLES

RULING SPAN = 200'

SPAN LENGTH	#4 CONDUCTOR (COPPER)						#1/0 CONDUCTOR (COPPER)					
	INITIAL SAG			FINAL SAG			INITIAL SAG			FINAL SAG		
	TEMPERATURE			TEMPERATURE			TEMPERATURE			TEMPERATURE		
	30°	60°	90°	30°	60°	90°	30°	60°	90°	30°	60°	90°
50	1	1	1	1	1	2	1	1	1	1	1	1
75	2	2	2	3	3	4	2	2	2	2	2	3
100	3	4	4	5	6	7	3	3	4	3	4	6
125	5	6	7	7	9	12	5	5	6	5	7	9
150	7	8	10	10	13	16	6	7	9	7	10	12
175	9	10	13	14	18	22	9	10	12	10	13	18
200	12	14	17	18	23	29	11	13	16	13	17	22
225	15	18	22	23	29	37	14	17	20	17	22	28
250	19	22	27	28	36	45	17	20	25	20	27	34

E-10

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DEPT OF NAVY — NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

REPLACE MEDIUM VOLTAGE ELECTRICAL DISTRIBUTION SYSTEM, DIVISION 400 AREA
MCB CAMP LEJEUNE, N.C.

POLE DETAILS

SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.
F	80091	

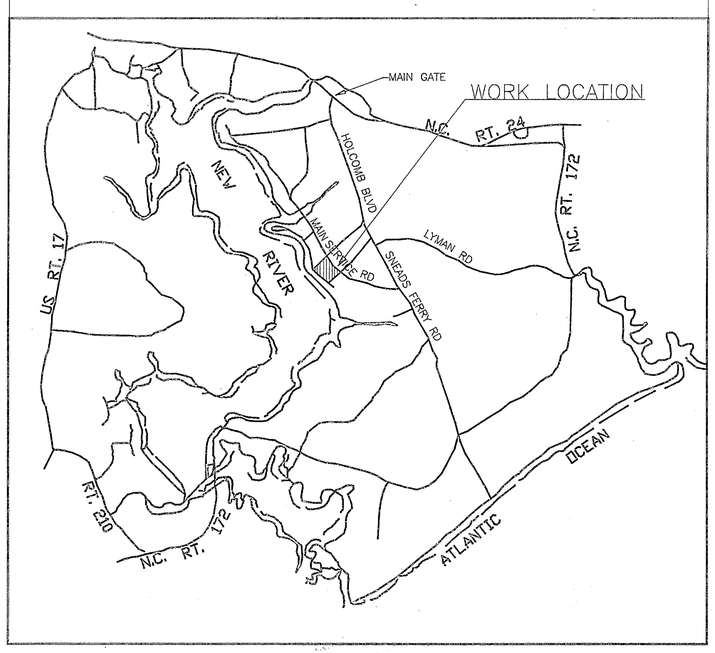
CONSTR. CONTR. NO. N62470-9 -B-7373
SCALE: GRAPHIC SPEC. 05-91-7373 SHEET

REVISIONS	
SYM.	DESCRIPTION

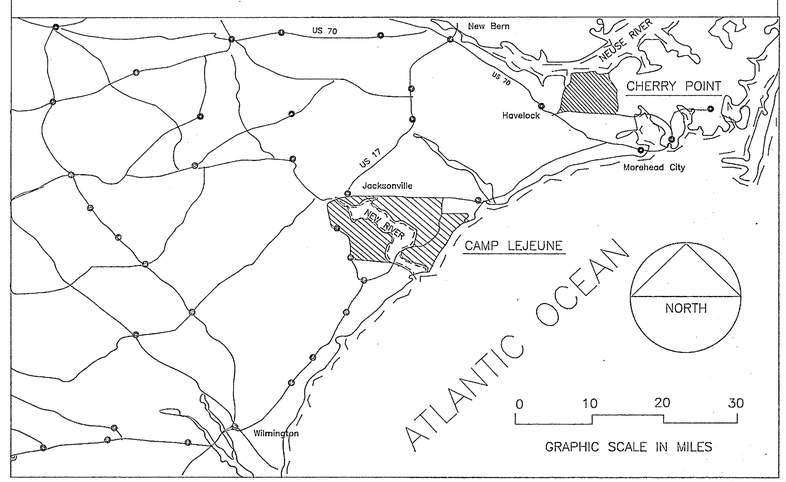
REPLACE MEDIUM VOLTAGE ELECTRICAL DISTRIBUTION SYSTEM, DIVISION 400 AREA MCB CAMP LEJEUNE, N.C.

PLEASE NOTE: THIS DRAWING HAS BEEN REDUCED TO "D" SIZE (24"x 36") THE FINAL DRAWING SHALL BE ENLARGED TO STANDARD "F" SIZE (30"x 42")

VICINITY MAP



LOCATION MAP



PRELIMINARY SUBMITTAL
Date DEC 27 1991

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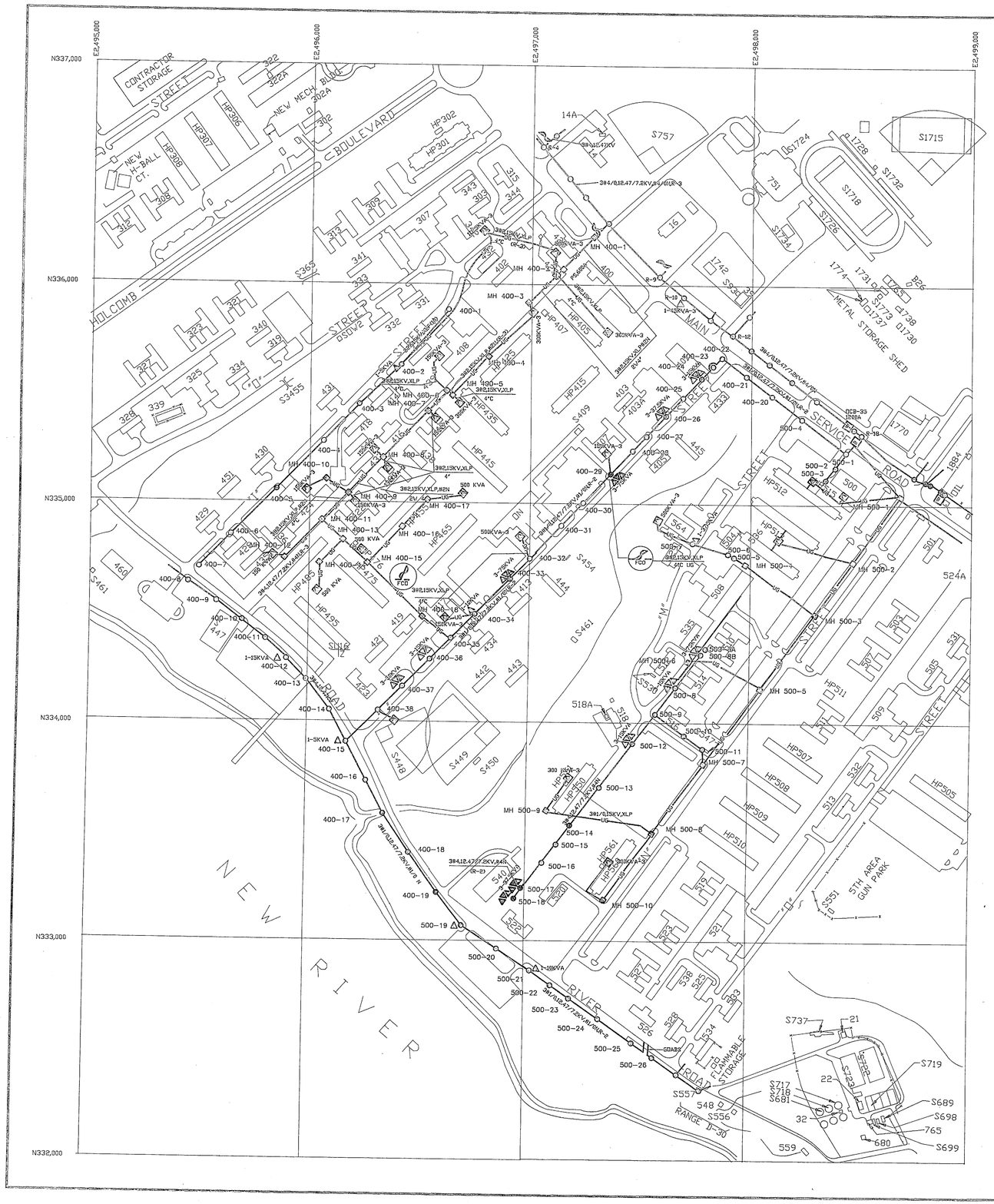
AMERICAN CONSULTING ENGINEERS		DEPT OF NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
	DES DR CHK SUBMITTED BY: DESIGN DIR: APPROVED: PWO OR OICC DATE SATISFACTORY TO DATE	REPLACE MEDIUM VOLTAGE ELECTRICAL DISTRIBUTION SYSTEM, DIVISION 400 AREA MCB CAMP LEJEUNE TITLE SHEET SIZE F · CODE IDENT. NO. 80091 · NAVFAC CONTR. NO. SCALE: GRAPHIC SPEC. · CONSTR. CONTR. NO.



NORTH

PLEASE NOTE: THIS DRAWING HAS BEEN REDUCED TO "D" SIZE (24"x 36") THE FINAL DRAWING SHALL BE ENLARGED TO STANDARD "F" SIZE (30"x 42")

REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED

LEGEND

QUANTITY, SIZE, VOLTAGE (KV=KILOVOLTS)(NEUTRAL)(MATERIAL COPPER UNLESS NOTED)
3#1/0,12.47/7.2KV,#1/0 N

400-3 — POLE IDENTIFICATION NUMBER — EXISTING OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED. REPLACE POLE AS INDICATED.

3-25 KVA — QUANTITY, CAPACITY (KVA) — EXISTING OVERHEAD DISTRIBUTION TRANSFORMER

EXISTING FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N.O.)

EXISTING AIR SWITCH OPEN POSITION OR CLOSED POSITION

S — PROVIDE SECTIONALIZING TERMINAL (PAD MOUNTED) WITH UNDERGROUND DUCT AND CABLE CONNECTION

T — 750 KVA-3 — CAPACITY KVA THREE PHASE OR SINGLE PHASE — EXISTING PAD MOUNTED TRANSFORMER

S — EXISTING PAD MOUNTED SWITCH

QUANTITY, SIZE, VOLTAGE (KV), INSULATION
3#8,15KV, XLP — 4"C — UG — 1H-3 EG 2 U 4" — DUCT WAYS AND SIZE (INCHES) (EB=DIRECT BURIED) — HANDHOLE IDENTIFICATION NUMBER — EXISTING UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED

B — 1200 A — RATING AMPS — EXISTING CIRCUIT BREAKER

OH — PROVIDE OVERHEAD POLE LINE AND POLES

POLE NOTES (EXISTING)

- POLE # 400-1
  40' CLASS 4, VE-2, F1-4S, ST LT (6' ARM), (2) J6
- POLE # 400-2
  40' CLASS 4, VA5, VG106 (1-5KVA), VE-2, F1-4S, ST LT (6' ARM), (2) J5, UG TERM (1 PHASE), 4" CONDUIT RISER, VM2-11
- POLE # 400-3
  40' CLASS 4, VA1, ST LT (6' ARM), (2) J5, VM2-11
- POLE # 400-4
  40' CLASS 4, VA1, VE-2, F1-4S, ST LT (2' ARM), (2) J6, VM2-11
- POLE # 400-5
  40' CLASS 4, VA1, VE-2, F1-4S, ST LT (2' ARM), (2) J6, VM2-11
- POLE # 400-6
  40' CLASS 4, VA5-1, VG10 (1-50KVA)(CUTOUT AND SURGE ARRESTOR MTD ON POLE), VE-2, F1-4S, ST LT (6' ARM), (4) J5, VM2-11
- POLE # 400-7
  40' CLASS 4, VE-2, F1-4S, ST LT (6' ARM), (2) J6
- POLE # 400-8
  35' CLASS 5, (2) J5, ST LT (8' ARM)
- POLE # 400-9
  35' CLASS 5, (2) J5
- POLE # 400-10
  35' CLASS 5, (2) J5, ST LT (8' ARM)
- POLE # 400-11
  35' CLASS 5, (2) J5
- POLE # 400-12
  40' CLASS 4, VA7, VE-2, F1-4S, (2) J5, ST LT (8' ARM), VM2-11
- POLE # 400-13
  40' CLASS 4, VA9-1, VG105 (1-10KVA), J5, VM2-11
- POLE # 400-14
  40' CLASS 4, VA9-1, J5, TELEPHONE CLAMP, VM2-11
- POLE # 400-15
  40' CLASS 2, VC8-1 (ONLY SINGLE PHASE + NEUTRAL IN POLE 400-14 DIRECTION), VC8-1 (ONE DIRECTION ONLY), VG-1J6 (1-10KVA), VE-2, F1-4S, ST LT (8' ARM), J6, VM2-11
- POLE # 400-16
  35' CLASS 4, VC9-1, (3) J5, VM2-11
- POLE # 400-17
  35' CLASS 4, VC9-1, (2) J5, ST LT (8' ARM), VM2-11
- POLE # 400-18
  40' CLASS 4, VC9, (2) J5, VE-2, F1-4S, VM2-11
- POLE # 400-19
  35' CLASS 4, VC9, VE-2, F1-4S, (2) J5, ST LT (8' ARM), VM2-11
- POLE # 400-20
  40' CLASS 2, VC9-1, VM2-11
- POLE # 400-21
  45' CLASS 3, VC9-1, VM2-11
- POLE # 400-22
  40' CLASS 1, VC8-1 (ONE DIRECTION ONLY), VC8-1 (ONE DIRECTION ONLY) (BUCK CONSTRUCTION), VE-2, F1-4S, 1-1/2" CONDUIT RISER, TV CLAMP, VM2-11
- POLE # 400-23
  STUB POLE WITH VE-2, F1-4S, TEL CLAMP
- POLE # 400-24
  40' CLASS 4, VC9-1, VG311 (3-25KVA), TV CLAMP, VM2-11
- POLE # 400-25
  40' CLASS 4, VC9-1, (2) J5, ST LT (8' ARM), TEL CLAMP, TV CLAMP
- POLE # 400-26
  40' CLASS 3, VC9-1, VE-2, F1-4S, VG311 (3-37.5KVA), (3) J6, TEL CLAMP, M8-11 (3-400:5 CT'S & 3 STATOR METER), VM2-11
- POLE # 400-27
  40' CLASS 3, VC9-1, (2) J5, ST LT (8' ARM), TEL CLAMP, TV CLAMP, VM2-11
- POLE # 400-28
  40' CLASS 3, VC9-1, TEL CLAMP, TV CLAMP, 1-1/2" CONDUIT RISER (TEL), VM2-11
- POLE # 400-29
  40' CLASS 3, VC9-1, UG TERM W/X-ARM, TEL CLAMP, TV CLAMP, 4" CONDUIT RISER (PRI), VM2-11
- POLE # 400-30
  40' CLASS 3, VC9-1, TEL CLAMP, TV CLAMP, VM2-11
- POLE # 400-31
  40' CLASS 3, VC9-1, (2) J5, ST LT (8' ARM), TEL CLAMP, TV CLAMP, VM2-11
- POLE # 400-32
  40' CLASS 4, VC9-1, UG TERM W/X-ARM, (2) J5, (3) TEL CLAMP, TV CLAMP (W/STUB ARM), 4" CONDUIT RISER, VM2-11
- POLE # 400-33
  40' CLASS 2, VC9-1, VG311 (3-25KVA), (3) J6, ST LT (8' ARM), TEL CLAMP, TV CLAMP, VM2-11
- POLE # 400-34
  40' CLASS 4, VC9-1, VG39 (1-25KVA), UG TERM W/X-ARM, (1) J6, (3) TEL CLAMP, TV CLAMP(W/STUB ARM), (2) 1-1/2" CONDUIT RISER, 3-1/2" CONDUIT RISER, VM2-11
- POLE # 400-35
  40' CLASS 2, VC9-1, UG TERM W/X-ARM, TEL CLAMP, TV CLAMP, (2) 4" CONDUIT RISER, VM2-11
- POLE # 400-36
  40' CLASS 4, VC9-1, VG311 (3-50KVA), VE-2, F1-4S, (2) J6, ST LT (8' ARM), TEL CLAMP, TV CLAMP, TEL RISER, VM2-11
- POLE # 400-37
  40' CLASS 3, VC9-1, VG311 (3-50KVA)(CO & LA ON VC9-1 X-ARM), VE-2, F1-4S, (4) J6, J6(TEL), (2) TEL CLAMP, TV CLAMP, 2-1/2" CONDUIT RISER, TEL RISER, VM2-11
- POLE # 400-38
  40' CLASS 3, VC9-1, UG TERM W/X-ARM, VE-2, F1-4S, (2) TEL CLAMP, 4" CONDUIT RISER, VM2-11
- POLE # 500-1
  40' CLASS 2, VC8-1, VC8-1 (ONE DIRECTION ONLY), (3) VE-2, (3) F1-4S, 2-1/2" CONDUIT RISER (TEL), (2) J6, VM2-11
- POLE # 500-2
  40' CLASS 2, VC9-1, VG311 (3-15KVA), (2) J6, VM2-11
- POLE # 500-3
  45' CLASS 3, VC8-1 (ONE DIRECTION ONLY), VE-2, F1-4S, VM2-11
- POLE # 500-4
  40' CLASS 2, VC9-1, VM2-11
- POLE # 500-5
  40' CLASS 4, VC8-1 (ONE DIRECTION ONLY), UG TERM (CUTOUTS & SURGE ARRESTORS ON VC8-1 X-ARM), VE-2, F1-4S, (2) 3-1/2" CONDUIT RISERS, VM2-11
- POLE # 500-6
  40' CLASS 4, VC9-1, VG136 (1-25KVA), UG TERM, VE-2, F1-4S, (2) 3-1/2" CONDUIT RISERS, VM2-11
- POLE # 500-7
  45' CLASS 4, VC8-1 (ONE DIRECTION ONLY), VG136 (1-37.5KVA), UG TERM (CUTOUTS & SURGE ARRESTORS ON VC8-1 X-ARM), J6, VE-2, F1-4S, 4" CONDUIT RISER, VM2-11
- POLE # 500-8
  40' CLASS 2, VC9-1, VG311 (3-37.5KVA), VE-2, F1-4S, (3) J6, ST LT (8' ARM), TEL CLAMP, TV CLAMP, 1-1/2" CONDUIT RISER (TEL), VM2-11
- POLE # 500-8A
  40' CLASS 3, VC9-1, VG311 (3-75KVA), (2) J6, ST LT (8' ARM), TEL CLAMP, TV CLAMP, VM2-11
- POLE # 500-8B
  45' CLASS 2, VC8-1 (ONE DIRECTION ONLY), TV CLAMP, VE-2, F1-4S
- POLE # 500-9
  40' CLASS 3, VC9-1, VC8-1 (ONE DIRECTION ONLY), TEL CLAMP, TV CLAMP, 1-1/2" CONDUIT RISER (TEL), VM2-11
- POLE # 500-10
  45' CLASS 3, VC9-1, VM2-11
- POLE # 500-11
  45' CLASS 3, VC8-1 (ONE DIRECTION ONLY), UG TERM (CUTOUTS & SURGE ARRESTORS ON VC8-1 X-ARM), VE-2, F1-4S, (2) 4" CONDUIT RISERS, VM2-11
- POLE # 500-12
  40' CLASS 3, VC9-1, VG311 (3-15KVA), J6, SPAN GUY, VE-2, F1-4S, TV CLAMP W/STUB ARM, VM2-11
- POLE # 500-13
  40' CLASS 3, VC9-1, ST LT (6' ARM), TV CLAMP, 1" CONDUIT RISER (FOR ST LT), VM2-11
- POLE # 500-14
  45' CLASS 4, VC9-1, TV CLAMP, VM2-11
- POLE # 500-15
  45' CLASS 4, VC9-1, TV CLAMP, VM2-11
- POLE # 500-16
  45' CLASS 4, VC9-1, J6, ST LT (6' ARM), TV CLAMP, VM2-11
- POLE # 500-17
  40' CLASS 3, VC9-1, VG311 (3-25KVA)(CO & LA ON VC9-1 X-ARM), (2) J6, ST LT (2' ARM), TV CLAMP, 4" CONDUIT RISER, 1" CONDUIT RISER, VM2-11
- POLE # 500-18
  40' CLASS 2, VC8-1(ONE DIRECTION ONLY), VG311 (3-50KVA), VE-2, F1-4S, TV CLAMP, 2-1/2" CONDUIT RISER, VM2-11
- POLE # 500-19
  40' CLASS 2, VC9, VG10 (1-10KVA), VE-2, F1-4S, (2) J5, ST LT (2' ARM), VM2-11
- POLE # 500-20
  35' CLASS 4, VC9, VE-2, F1-4S, (2) J5, ST LT (8' ARM), VM2-11
- POLE # 500-21
  35' CLASS 4, VC9, VE-2, F1-4S, (2) J5, ST LT (2' ARM), VM2-11
- POLE # 500-22
  40' CLASS 4, VC9-1, VG19(1-10KVA), (3) J5, ST LT (6' ARM), VM2-11
- POLE # 500-23
  35' CLASS 4, VC9-1, (2) J5
- POLE # 500-24
  40' CLASS 3, VC9, VG19 (1-10KVA, 3 PHASE)(CUTOUTS AND SURGE ARRESTORS MTD ON X-ARM), (2) J5, 1-1/4"CONDUIT RISER, VM2-11
- POLE # 500-25
  35' CLASS 3, VC9-1, (2) J5, ST LT (6' ARM), VM2-11
- POLE # 500-26
  40' CLASS 4, VC8-1, POLE TOP SWITCH, (2) J5, VM2-11

GRAPHIC SCALE

0' 100' 200' 300' 400' 500' 600'

E-1

AMERICAN CONSULTING ENGINEERS

DEPT OF NAVY — NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

DES
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DESIGN DIR:
APPROVED: PWO OR OICC — DATE
SATISFACTORY TO — DATE

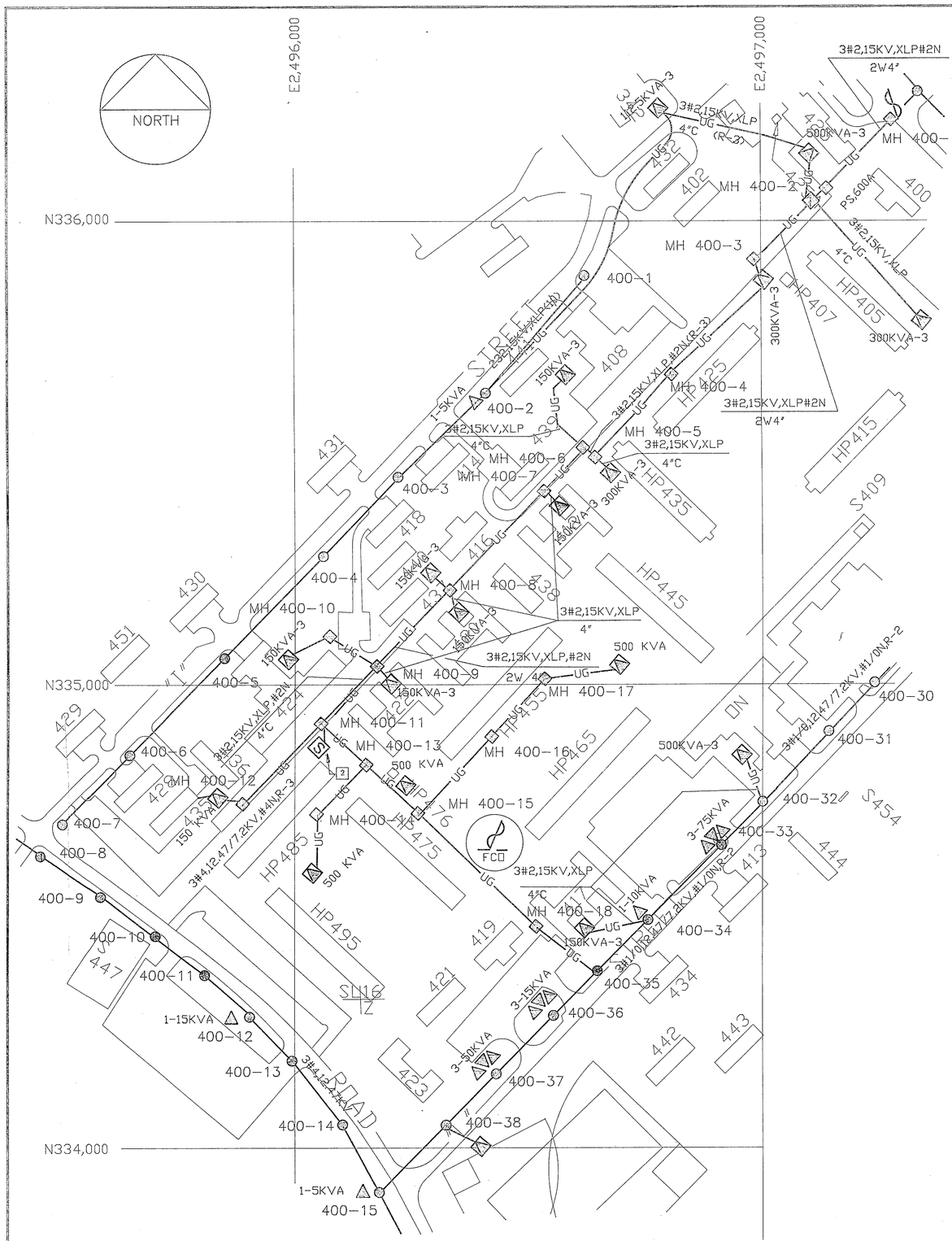
REPLACE MEDIUM VOLTAGE ELECTRICAL DISTRIBUTION SYSTEM, DIVISION 400 AREA
MCB CAMP LEJEUNE, N.C.

EXISTING ELECTRICAL DISTRIBUTION PLAN

SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.
F	80091	

CONSTR. CONTR. NO.

SCALE: GRAPHIC SPEC. SHEET OF



REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED

POLE NOTES

- POLE # 400-1
  40' CLASS 4, VE-2, F1-4S, ST LT (6' ARM), (2) J6
- POLE # 400-2
  40' CLASS 4, VA5, VG106 (1-5KVA), VE-2, F1-4S, ST LT (6' ARM), (2) J5, UG TERM (1 PHASE), 4" CONDUIT RISER, VM2-11
- POLE # 400-3
  40' CLASS 4, VA1, ST LT (6' ARM), (2) J5, VM2-11
- POLE # 400-4
  40' CLASS 4, VA1, VE-2, F1-4S, ST LT (2' ARM), (2) J6, VM2-11
- POLE # 400-5
  40' CLASS 4, VA1, VE-2, F1-4S, ST LT (2' ARM), (2) J6, VM2-11
- POLE # 400-6
  40' CLASS 4, VA5-1, VG10 (1-50KVA)(CUTOUT AND SURGE ARRESTOR MTD ON POLE), VE-2, F1-4S, ST LT (6' ARM), (4) J5, VM2-11
- POLE # 400-7
  40' CLASS 4, VE-2, F1-4S, ST LT (6' ARM), (2) J6
- 1 — POLE # 400-8
  35' CLASS 5, (2) J5, ST LT (8' ARM)
- 1 — POLE # 400-9
  35' CLASS 5, (2) J5
- 1 — POLE # 400-10
  35' CLASS 5, (2) J5, ST LT (8' ARM)
- 1 — POLE # 400-11
  35' CLASS 5, (2) J5
- 1 — POLE # 400-12
  40' CLASS 4, VA7, VE-2, F1-4S, (2) J5, ST LT (8' ARM), VM2-11
- 1 — POLE # 400-13
  40' CLASS 4, VA9-1, VG105 (1-10KVA), J5, VM2-11
- 1 — POLE # 400-14
  40' CLASS 4, VA9-1, J5, TELEPHONE CLAMP, VM2-11
- 1 — POLE # 400-15
  40' CLASS 2, VC8-1 (ONLY SINGLE PHASE + NEUTRAL IN POLE 400-14 DIRECTION), VC8-1 (ONE DIRECTION ONLY), VG-136 (1-10KVA), VE-2, F1-4S, ST LT (8' ARM), J5, VM2-11
- 1 — POLE # 400-30
  40' CLASS 3, VC9-1, TEL CLAMP, TV CLAMP, VM2-11
- 1 — POLE # 400-31
  40' CLASS 3, VC9-1, (2) J5, ST LT (8' ARM), TEL CLAMP, TV CLAMP, VM2-11
- 1 — POLE # 400-32
  40' CLASS 4, VC9-1, UG TERM W/X-ARM, (2) J5, (3) TEL CLAMP, TV CLAMP (W/STUB ARM), 4" CONDUIT RISER, VM2-11
- 1 — POLE # 400-33
  40' CLASS 2, VC9-1, VG311 (3-25KVA), (3) J6, ST LT (8' ARM), TEL CLAMP, TV CLAMP, VM2-11
- 1 — POLE # 400-34
  40' CLASS 4, VC9-1, VG39 (1-25KVA), UG TERM W/X-ARM, (1) J6, (3) TEL CLAMP, TV CLAMP(W/STUB ARM), (2) 1-1/2" CONDUIT RISER, 3-1/2" CONDUIT RISER, VM2-11
- 1 — POLE # 400-35
  40' CLASS 2, VC9-1, UG TERM W/X-ARM, TEL CLAMP, TV CLAMP, (2) 4" CONDUIT RISER, VM2-11
- 1 — POLE # 400-36
  40' CLASS 4, VC9-1, VG311 (3-50KVA), VE-2, F1-4S, (2) J6, ST LT (8' ARM), TEL CLAMP, TV CLAMP, TEL RISER, VM2-11
- POLE # 400-37
  40' CLASS 3, VC9-1, VG311 (3-50KVA)(CO & LA ON VC9-1 X-ARM), VE-2, F1-4S, (4) J6, J6(TEL), (2) TEL CLAMP, TV CLAMP, 2-1/2" CONDUIT RISER, TEL RISER, VM2-11
- 1 — POLE # 400-38
  40' CLASS 3, VC9-1, UG TERM W/X-ARM, VE-2, F1-4S, (2) TEL CLAMP, 4" CONDUIT RISER, VM2-11

WORK NOTES

1. REMOVE EXISTING POLE AND HARDWARE. PROVIDE NEW POLE AND HARDWARE TO MATCH EXISTING. TRANSFER HIGH VOLTAGE TERMINATORS, TRANSFORMERS AND SECONDARY SERVICE DROPS TO NEW POLE. PROTECT AND RECONNECT EXISTING PRIMARY, SECONDARY AND STREET LIGHT CONDUCTORS TO NEW POLE.
2. PROVIDE PRIMARY SECTIONALIZING SWITCH PER DETAIL A/E5/E5. CONNECT SWITCH TO EXISTING PRIMARY CIRCUIT AS INDICATED ON SPECIFIC MANHOLE DETAIL. SEE MANHOLE DETAILS ON SHEETS E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17 ETC.

PLEASE NOTE: THIS DRAWING HAS BEEN REDUCED TO "D" SIZE (24" x 36") THE FINAL DRAWING SHALL BE ENLARGED TO STANDARD "F" SIZE (30" x 42")

E-2

AMERICAN CONSULTING ENGINEERS

DES
DR
CHK
SUBMITTED BY:
DESIGN DIR:
APPROVED: PWO OR OICC DATE
SATISFACTORY TO DATE

DEPT OF NAVY — NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

REPLACE MEDIUM VOLTAGE ELECTRICAL DISTRIBUTION SYSTEM, DIVISION 400 AREA
MCB CAMP LEJEUNE, N.C.

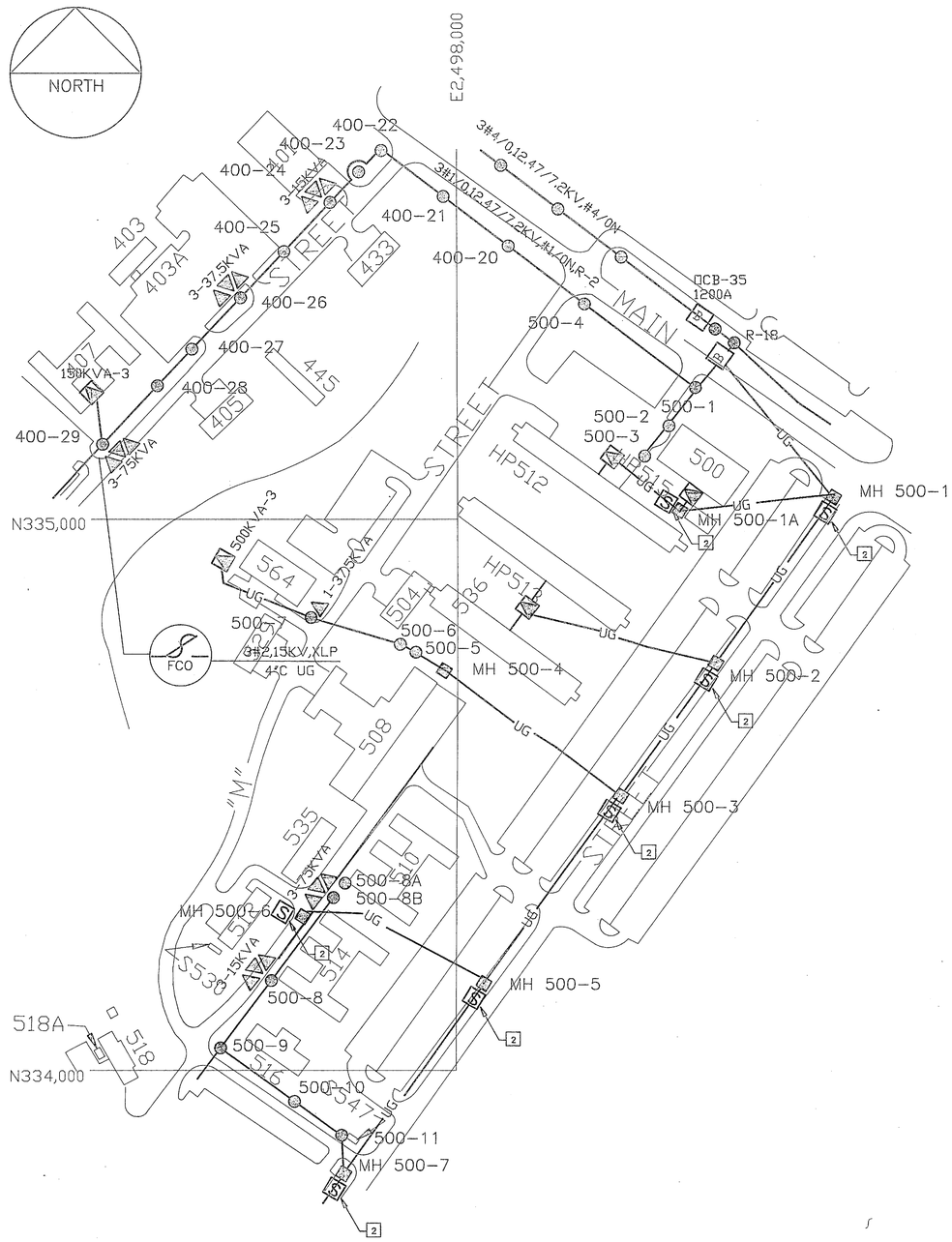
ELECTRICAL DISTRIBUTION PLAN-AREA A

SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.
F	80091	

CONSTR. CONTR. NO.

SCALE: GRAPHIC SPEC. SHEET OF

REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED



POLE NOTES

1 POLE # 400-20
40' CLASS 2, VC9-1, VM2-11

1 POLE # 400-21
45' CLASS 3, VC9-1, VM2-11

1 POLE # 400-22
40' CLASS 1, VC8-1 (ONE DIRECTION ONLY), VC8-1 (ONE DIRECTION ONLY) (BUCK CONSTRUCTION), VE-2, F1-4S, 1-1/2" CONDUIT RISER, TV CLAMP, VM2-11

4 POLE # 400-23
STUB POLE WITH VE-2, F1-4S, TEL CLAMP

1 POLE # 400-24
40' CLASS 4, VC9-1, VG311 (3-25KVA), TV CLAMP, VM2-11

1 POLE # 400-25
40' CLASS 4, VC9-1, (2) J5, ST LT (8' ARM), TEL CLAMP, TV CLAMP

1 POLE # 400-26
40' CLASS 3, VC9-1, VE-2, F1-4S, VG311 (3-37.5KVA), (3) J5, TEL CLAMP, M8-11 (3-400A CTS & 3 STATOR METER), VM2-11

1 POLE # 400-27
40' CLASS 3, VC9-1, (2) J5, ST LT (8' ARM), TEL CLAMP, TV CLAMP, VM2-11

1 POLE # 400-28
40' CLASS 3, VC9-1, TEL CLAMP, TV CLAMP, 1-1/2" CONDUIT RISER (TEL), VM2-11

1 POLE # 400-29
40' CLASS 3, VC9-1, UG TERM W/X-ARM, TEL CLAMP, TV CLAMP, 4" CONDUIT RISER

1 POLE # 500-1
40' CLASS 2, VC8-1, VC8-1 (ONE DIRECTION ONLY), (3) VE-2, (3) F1-4S, 2-1/2" CONDUIT RISER (TEL), (2) J6, VM2-11

POLE # 500-2
40' CLASS 2, VC9-1, VG311 (3-15KVA), (2) J6, VM2-11

POLE # 500-3
45' CLASS 3, VC8-1 (ONE DIRECTION ONLY), VE-2, F1-4S, VM2-11

1 POLE # 500-4
40' CLASS 2, VC9-1, VM2-11

POLE # 500-5
40' CLASS 4, VC8-1 (ONE DIRECTION ONLY), UG TERM (CUTOUTS & SURGE ARRESTORS ON VC8-1 X-ARM), VE-2, F1-4S, (2) 3-1/2" CONDUIT RISERS, VM2-11

1 POLE # 500-6
40' CLASS 4, VC9-1, VG136 (1-25KVA), UG TERM, VE-2, F1-4S, (2) 3-1/2" CONDUIT RISERS, VM2-11

POLE # 500-7
45' CLASS 4, VC8-1 (ONE DIRECTION ONLY), VG136 (1-37.5KVA), UG TERM (CUTOUTS & SURGE ARRESTORS ON VC8-1 X-ARM), J6, VE-2, F1-4S, 4" CONDUIT RISER, VM2-11

1 POLE # 500-8
40' CLASS 2, VC9-1, VG311 (3-37.5KVA), VE-2, F1-4S, (3) J6, ST LT (8' ARM), TEL CLAMP, TV CLAMP, 1-1/2" CONDUIT RISER (TEL), VM2-11

3 POLE # 500-8A
40' CLASS 3, VC9-1, VG311 (3-75KVA), (2) J6, ST LT (8' ARM), TEL CLAMP, TV CLAMP, VM2-11

3 POLE # 500-8B
45' CLASS 2, VC8-1 (ONE DIRECTION ONLY), TV CLAMP, VE-2, F1-4S

1 POLE # 500-9
40' CLASS 3, VC9-1, VC8-1 (ONE DIRECTION ONLY), TEL CLAMP, TV CLAMP, 1-1/2" CONDUIT RISER (TEL), VM2-11

POLE # 500-10
45' CLASS 3, VC9-1, VM2-11

POLE # 500-11
45' CLASS 3, VC8-1 (ONE DIRECTION ONLY), UG TERM (CUTOUTS & SURGE ARRESTORS ON VC8-1 X-ARM), VE-2, F1-4S, (2) 4" CONDUIT RISERS, VM2-11

WORK NOTES

1 REMOVE EXISTING POLE AND HARDWARE. PROVIDE NEW POLE AND HARDWARE TO MATCH EXISTING. TRANSFER HIGH VOLTAGE TERMINATORS, TRANSFORMERS AND SECONDARY SERVICE DROPS TO NEW POLE. PROTECT AND RECONNECT EXISTING PRIMARY, SECONDARY AND STREET LIGHT CONDUCTORS TO NEW POLE.

2 PROVIDE PRIMARY SECTIONALIZING SWITCH PER DETAIL A/E5/E5. CONNECT SWITCH TO EXISTING PRIMARY CIRCUIT AS INDICATED ON SPECIFIC MANHOLE DETAIL. SEE MANHOLE DETAILS ON SHEETS E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17 ETC.

3 REMOVE EXISTING POLE AND OVERHEAD LINE. DO NOT REPLACE. TERMINATE OVERHEAD LINE AT POLE 500-8.

4 REMOVE EXISTING POLE AND TRANSFER CONNECTIONS TO ADJACENT POLE.

PLEASE NOTE: THIS DRAWING HAS BEEN REDUCED TO "D" SIZE (24"x 36") THE FINAL DRAWING SHALL BE ENLARGED TO STANDARD "F" SIZE (30"x 42")

GRAPHIC SCALE

0' 50' 100' 150' 200' 250' 300' 1"=100'

E-3

AMERICAN CONSULTING ENGINEERS

DES
DR
CHK
SUBMITTED BY:
DESIGN DIR:
APPROVED: PWO OR CICC DATE
SATISFACTORY TO DATE

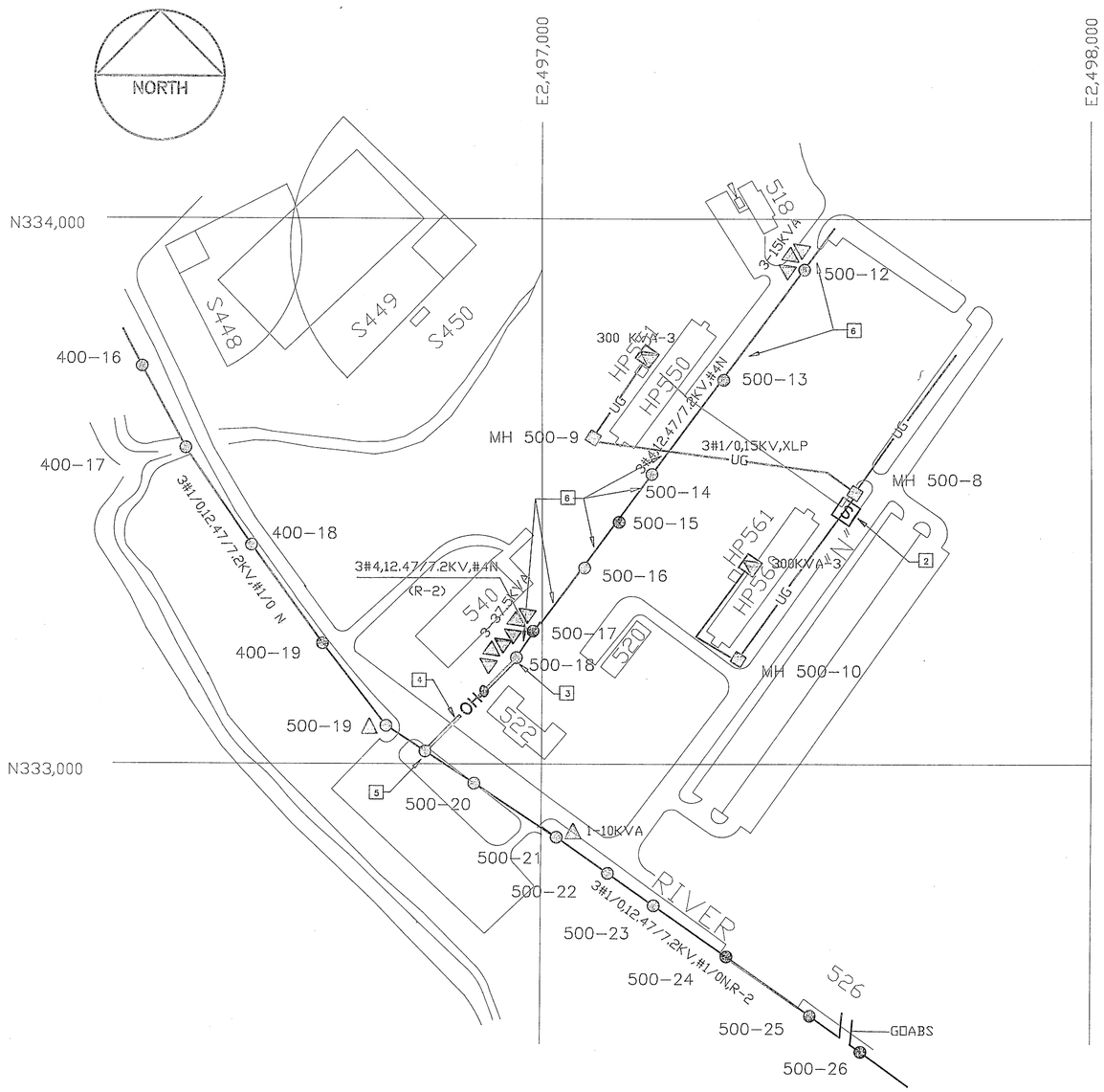
DEPT OF NAVY — NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

REPLACE MEDIUM VOLTAGE ELECTRICAL DISTRIBUTION SYSTEM, DIVISION 400 AREA
MCB CAMP LEJEUNE, N.C.

ELECTRICAL DISTRIBUTION PLAN-AREA B

SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.
F	80091	CONSTR. CONTR. NO.

SCALE: GRAPHIC | SPEC. | SHEET OF



REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED

POLE NOTES

1 POLE # 400-16
35' CLASS 4, VC9-1, (3) J5, VM2-11

1 POLE # 400-17
35' CLASS 4, VC9-1, (2) J5, ST LT (6' ARM), VM2-11

1 POLE # 400-18
40' CLASS 4, VC9, (2) J5, VE-2, F1-4S, VM2-11

1 POLE # 400-19
35' CLASS 4, VC9, (2) J5, VE-2, F1-4S, ST LT (6' ARM), VM2-11

1 POLE # 500-12
40' CLASS 3, VC9-1, VG311 (3-15KVA), J6, SPAN GUY, VE-2, F1-4S, TV CLAMP W/STUB ARM, VM2-11

1 POLE # 500-13
40' CLASS 3, VC9-1, ST LT (6' ARM), TV CLAMP, 1" CONDUIT RISER (FOR LT), VM2-11

1 POLE # 500-14
45' CLASS 4, VC9-1, TV CLAMP, VM2-11

1 POLE # 500-15
45' CLASS 4, VC9-1, TV CLAMP, VM2-11

1 POLE # 500-16
45' CLASS 4, VC9-1, J6, ST LT (6' ARM), TV CLAMP, VM2-11

1 POLE # 500-17
40' CLASS 3, VC9-1, VG311 (3-25KVA)(CO & LA ON VC9-1 X-ARM), (2) J6, ST LT (2' ARM), TV CLAMP, 4" CONDUIT RISER, 1" CONDUIT RISER, VM2-11

1 POLE # 500-18
40' CLASS 2, VC8-1(ONE DIRECTION ONLY), VG311 (3-50KVA), VE-2, F1-4S, TV CLAMP, 2-1/2" CONDUIT RISER, VM2-11

1 POLE # 500-19
40' CLASS 2, VC9, VG10 (1-10KVA), VE-2, F1-4S, (2) J5, ST LT (2' ARM), VM2-11

1 POLE # 500-20
35' CLASS 4, VC9, VE-2, F1-4S, (2) J5, ST LT (6' ARM), VM2-11

1 POLE # 500-21
35' CLASS 4, VC9, VE-2, F1-4S, (2) J5, ST LT (2' ARM), VM2-11

1 POLE # 500-22
40' CLASS 4, VC9-1, VG19(1-10KVA), (3) J5, ST LT (6' ARM), VM2-11

1 POLE # 500-23
35' CLASS 4, VC9-1, (2) J5

POLE # 500-24
40' CLASS 3, VC9, VG19 (1-10KVA, 3 PHASE)(CUTOUTS AND SURGE ARRESTORS MTD ON X-ARM), (2) J5, 1-1/4" CONDUIT RISER, VM2-11

POLE # 500-25
35' CLASS 5, VC9-1, (2) J5, ST LT (6' ARM), VM2-11

1 POLE # 500-26
40' CLASS 4, VC8-1, POLE TOP SWITCH, (2) J5, VM2-11

WORK NOTES

1. REMOVE EXISTING POLE AND HARDWARE. PROVIDE NEW POLE AND HARDWARE TO MATCH EXISTING. TRANSFER HIGH VOLTAGE TERMINATORS, TRANSFORMERS AND SECONDARY SERVICE DROPS TO NEW POLE. PROTECT AND RECONNECT EXISTING PRIMARY, SECONDARY AND STREET LIGHT CONDUCTORS TO NEW POLE.
2. PROVIDE PRIMARY SECTIONALIZING SWITCH PER DETAIL A/E5/E5. CONNECT SWITCH TO EXISTING PRIMARY CIRCUIT AS INDICATED ON SPECIFIC MANHOLE DETAIL. SEE MANHOLE DETAILS ON SHEETS E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17 ETC.
3. PROVIDE SUSPENSION INSULATORS (3), NEUTRAL DEAD-END BRACKET, AND PIN INSULATORS (4) ON EXISTING CROSSARM TO EXTEND CIRCUIT TO NEW POLE.
4. PROVIDE 4 # 1/0 COPPER OVERHEAD CONDUCTORS.
5. PROVIDE NEW POLE # 500-19A WITH THE FOLLOWING: 40' CLASS 2 POLE, VC8, VC8-1 (SINGLE DIRECTION), VE-2, F1-4S, VM2-11. PROVIDE FUSED CUTOUTS (3) ON VC8-1 CROSSARM AND CONNECT THE EXISTING CIRCUIT TO THE NEW CONDUCTORS VIA THE CUTOUTS.
6. REMOVE 4 # 4 OVERHEAD CONDUCTORS WITH 4 # 1/0 OVERHEAD COPPER CONDUCTORS.

PLEASE NOTE: THIS DRAWING HAS BEEN REDUCED TO "D" SIZE (24"x 36") THE FINAL DRAWING SHALL BE ENLARGED TO STANDARD "F" SIZE (30"x 42")

GRAPHIC SCALE

0' 50' 100' 150' 200' 250' 300' 1"=100'

E-4

AMERICAN CONSULTING ENGINEERS

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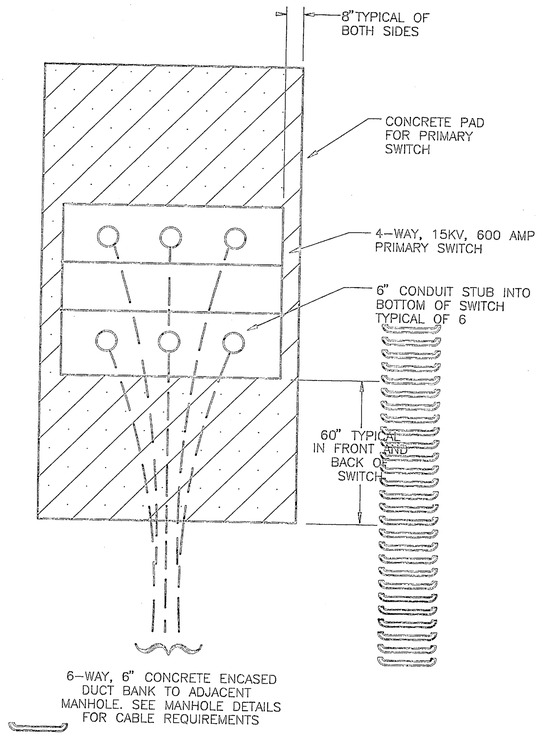
DESIGN DIR:
APPROVED: PWO OR OICC DATE
SATISFACTORY TO DATE

DEPT OF NAVY NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

REPLACE MEDIUM VOLTAGE ELECTRICAL DISTRIBUTION SYSTEM, DIVISION 400 AREA MCB CAMP LEJEUNE, N.C.

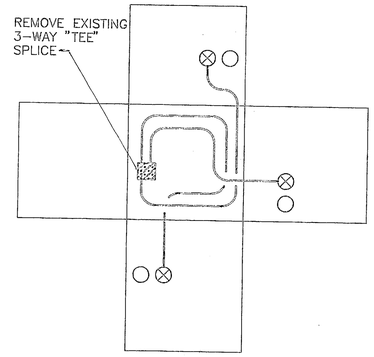
ELECTRICAL DISTRIBUTION PLAN-AREA C

SIZE F | CODE IDENT. NO. 80091 | NAVFAC DRAWING NO.
CONSTR. CONTR. NO.
SCALE: GRAPHIC | SPEC. | SHEET OF



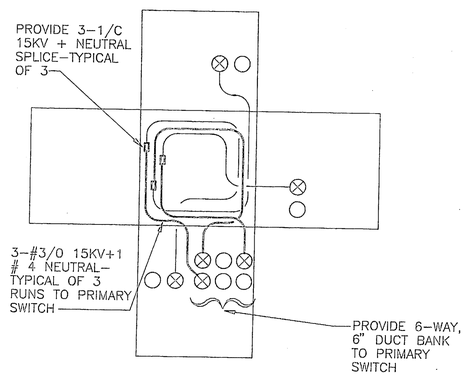
PRIMARY SWITCH PLAN VIEW

NO SCALE



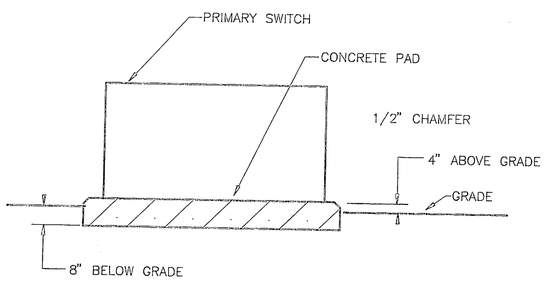
MANHOLE 400-11
EXISTING CONDITIONS

NO SCALE



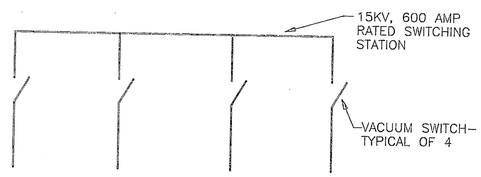
MANHOLE 400-11
NEW CONDITIONS

NO SCALE



PRIMARY SWITCH ELEVATION

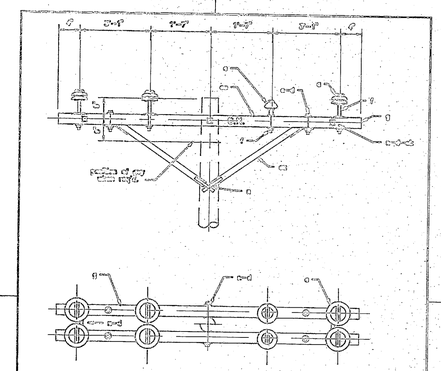
NO SCALE



PRIMARY SWITCH ONE LINE DIAGRAM

NO SCALE

REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED



PLAN

ITEM	NO.	MATERIAL	ITEM	NO.	MATERIAL
a	2	Insulator, pin type, 12.5 KV	g	2	Crossarm, 3 3/4"x4 3/4"x8'-0"
a	6	Insulator, pin type	h	4	Bolt,double arming,5/8" req'd length
c	4	Bolt, machine, 1/2" req'd. length	cu	2	Brace, crossarm, wood, 30" span
d	10	Washer, square, 2 1/4"	co	4	Lattern, 2 "C", 2 "N", with 1" bolts
d	4	Washer, round, 1 3/8" dia.	cs		Locknuts
f	6	Pin, crossarm, steel, 5/8" x 14"			
f	2	Pin, crossarm, steel, 5/8"x10 3/4"			

14.4/24.9 KV, 3-PHASE
CROSSARM CONSTRUCTION - DOUBLE LINE ARM

Jan 1, 1963 | VC9

PLEASE NOTE: THIS DRAWING HAS BEEN REDUCED TO "D" SIZE (24"x 36") THE FINAL DRAWING SHALL BE ENLARGED TO STANDARD "F" SIZE (30"x 42")

E-5

AMERICAN CONSULTING ENGINEERS

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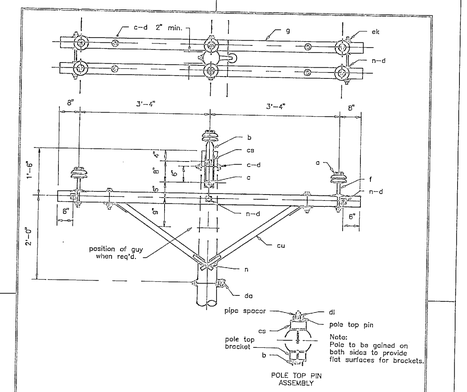
DEPT OF NAVY NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

REPLACE MEDIUM VOLTAGE ELECTRICAL DISTRIBUTION SYSTEM, DIVISION 400 AREA
MCB CAMP LEJEUNE, N.C.

DETAILS

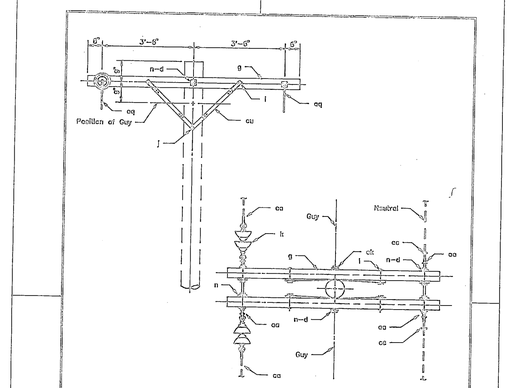
SIZE F | CODE IDENT. NO. 80091 | NAVFAC DRAWING NO.
CONSTR. CONTR. NO.
SCALE: GRAPHIC SPEC. SHEET OF



ITEM	NO.	MATERIAL	ITEM	NO.	MATERIAL
a	8	Insulator, pin type	g	2	Crossarm, 3 3/4"x4 3/4"x8'-0"
b	2	Pin, pole top, 20"	n	4	Bolt,double arming,5/8"xreq'd length
c	4	Bolt, machine, 5/8" x req'd. length	ca	2	Pole top bracket
d	13	Washer, square 2 1/4"	cu	2	Brace, wood, 60" span
d	4	Washer, rd., 1 3/8" dia.	ca	1	Bracket, insulated
f	4	Pin, crossarm, steel, clamp type	di	2	Pipe spacer, 3/4" dia. x 1 1/2"
			ck		Lockwasher

14.4/24.9 KV, 3-PHASE
CROSSARM CONSTRUCTION - DOUBLE PRIMARY SUPPORT
0 TO 5 ANGLE (LARGE CONDUCTORS)

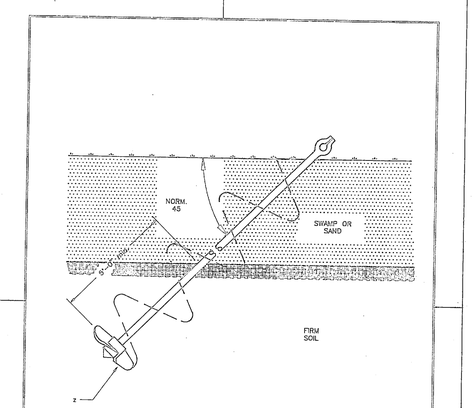
Jan 1, 1963 — VC1-3



ITEM	NO.	MATERIAL	ITEM	NO.	MATERIAL
d	10	Washer, square, 2 1/4"	p		Connector, as required
a	2	Crossarm, 3 1/2" x 4 1/2" x 8'-0"	aa	4	Nut, eye, 5/8"
cu	4	Brace, wood, 26"	eq		Jumpers, as required
i	4	Bolt, carriage, 3/8" x 4 1/2"	ca	2	Deadend assembly, primary
j	2	Screw, lag, 1/2" x 4"	cc	2	Deadend assembly, neutral
k	4	Insulator, suspension, 10"	ck	2	Lockwasher
n	3	Bolt, double arming, 5/8"xreq'd lgth			

14.4/24.9 KV. PRIMARY, 1-PHASE
CROSSARM CONSTRUCTION - DEADEND (DOUBLE)

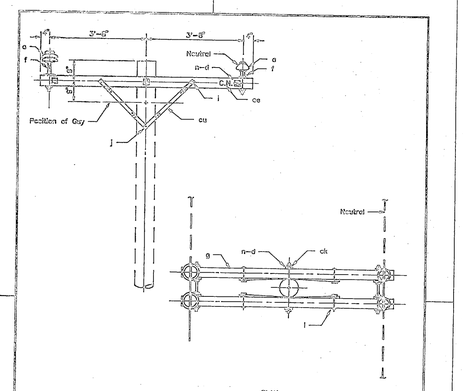
Jan 1, 1963 — VA8



ITEM	MATERIAL	ASSEMBLY UNIT FG-1 NO.		FG-2 NO.		FG-3 NO.		NO.
z	Anchor, swamp	1	16"	1	12"	1	12"	
	Holding power		6000#		6000#		10000#	
	Nut, thimble type eye	1		1		1		
	Pipe, galvanized, as req'd.							

SWAMP ANCHOR ASSEMBLY

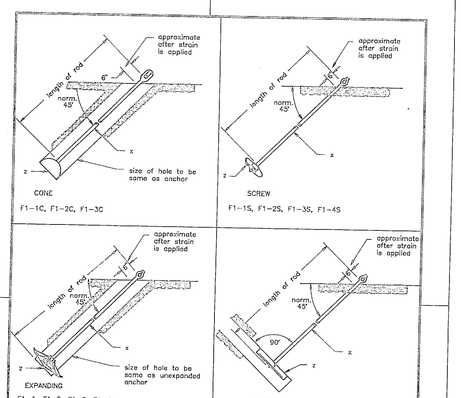
Jan 1, 1962 — FG-1,FG-2,FG-3



ITEM	NO.	MATERIAL	ITEM	NO.	MATERIAL
a	2	Insulator, pin type	f	4	Bolt, carriage, 3/8" x 4 1/2"
ca	4	Letters, 2"C", 2"N", with 1" nails	j	2	Screw, lag, 1/2" x 4"
d	10	Washer, square, 2 1/4"	n	3	Bolt, double arming, 5/8"x req'd lth
f	2	Pin, crossarm, steel, 5/8" x 14"	f	2	Pin, crossarm, steel, 5/8" x10 3/4"
g	2	Crossarm, 3 1/2" x 4 1/2" x 8'-0"	d	2	Washer, square, 3"
cu	4	Brace, wood, 26"	ck		Lockwasher
a	2	Insulator, pin type (7.2/12.5KV)			

14.4/24.9 KV. PRIMARY, 1-PHASE
CROSSARM CONSTRUCTION - DOUBLE LINE ARM

Jan 1, 1963 — VA9



F1-1C, F1-2C, F1-3C

F1-1S, F1-2S, F1-3S, F1-4S

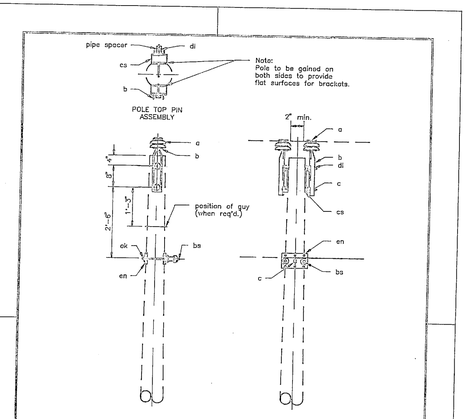
F1-1, F1-2, F1-3, F1-4

Note: Projection of anchor rods above earth may be increased to a max. of 12" in cultivated fields or other locations where necessary to prevent burying of the rod eye.

ITEM	MATERIAL	ASSEMBLY UNIT F1-1 NO.		F1-2 NO.		F1-3 NO.		F1-4 NO.	
	Holding Power in Ordinary Soil (pounds)	6000		6000		10000		12000	
x	Rod, anchor, thimble eye	1	5/8"x7'-0"	1	5/8"x7'-0"				
x	Rod, anchor, twin eye					1	3/4"x7'-0"	1	3/4"x8'-0"
z	Anchor_____ type	1		1		1		1	

LINE ANCHOR ASSEMBLIES

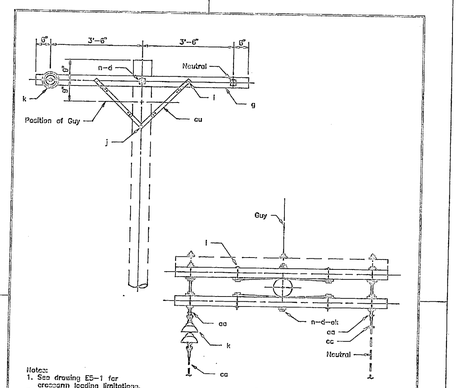
Jan 1, 1962 — F1-1 TO 4



ITEM	NO.	MATERIAL	ITEM	NO.	MATERIAL
a	2	Insulator, pin type	ca	2	Bracket, pole top, 1/4"x2"
b	2	Pin, pole top, 20"	ck		Lockwasher
c	3	Bolt, machine, 5/8" x req'd. length	en	2	Plate, double support
ba	2	Bolt, single upset, insulated	di	2	Pipe spacer, 3/4" dia. x 1 1/2"

14.4/24.9 KV PRIMARY, 1-PHASE, 0° TO 5° ANGLE
DOUBLE PRIMARY AND NEUTRAL SUPPORTS

Jan 1, 1963



Notes:
1. See drawing E5-1 for crossarm loading limitations.
2. Designate as VA7-1 for assembly with force crossarms.

ITEM	NO.	MATERIAL	ITEM	NO.	MATERIAL
d	10	Washer, square, 2 1/4"	k	2	Insulator, suspension, 10"
g	2	Crossarm, 3 1/2" x 4 1/2" x 8'-0"	n	3	Bolt,double arming,5/8"xreq'd lth
cu	4	Brace, wood, 26"	aa	2	Nut, eye, 5/8"
i	4	Bolt, carriage, 3/8" x 4 1/2"	cc	1	Deadend assembly, primary
j	2	Screw, lag, 1/2" x 4"	cc	1	Deadend assembly, neutral
			ck		Lockwasher

14.4/24.9 KV. PRIMARY, 1-PHASE
CROSSARM CONSTRUCTION - DEADEND (SINGLE)

Jan 1, 1963 — VA7,VA7-1

REVISIONS

SYM.	DESCRIPTION	DATE	APPROVED

E-6

AMERICAN CONSULTING ENGINEERS

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APPROVED: PWO OR OICC — DATE
SATISFACTORY TO — DATE

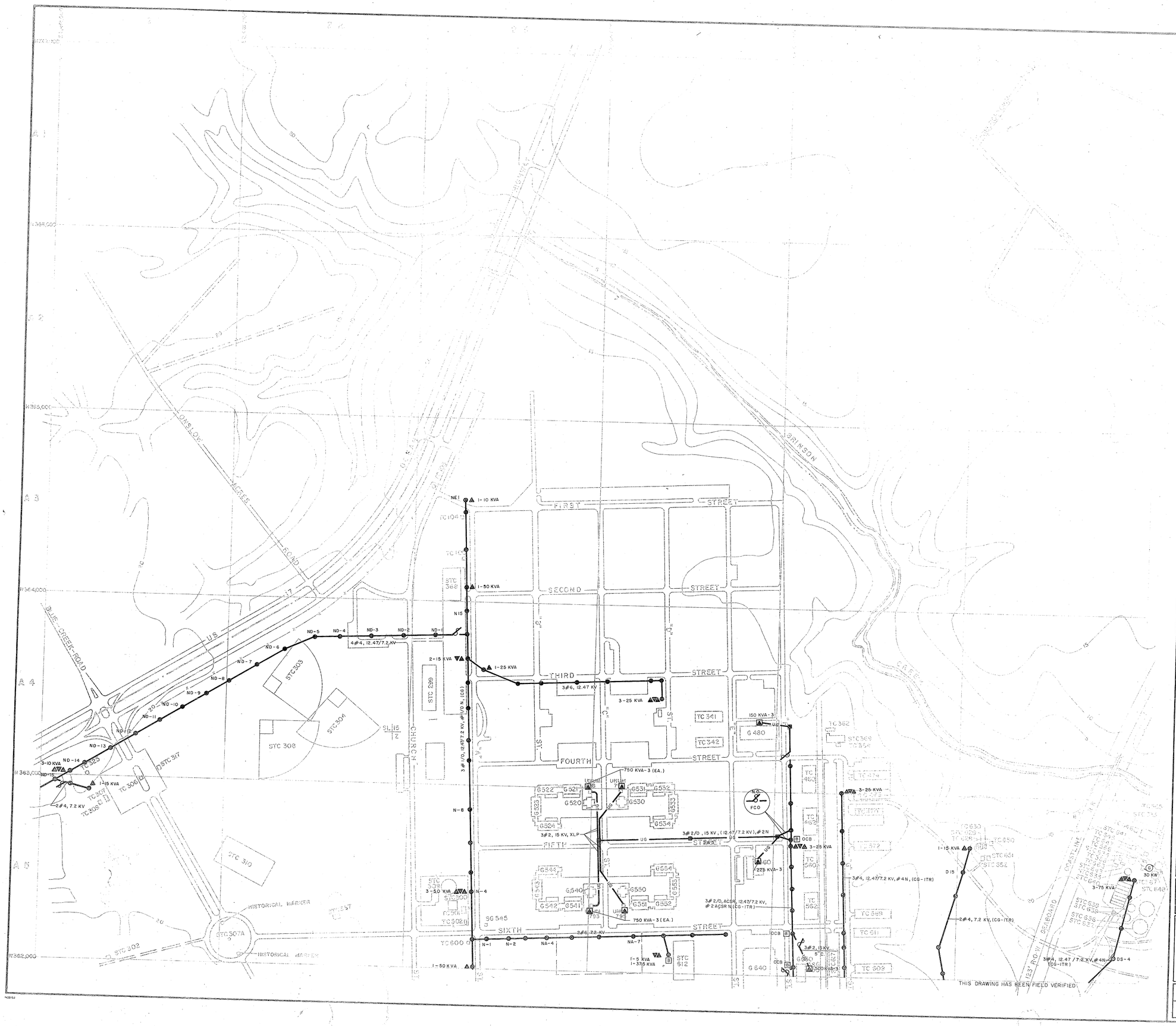
DEPT OF NAVY — NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

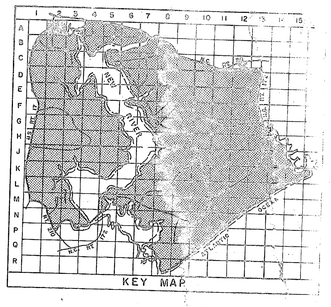
REPLACE MEDIUM VOLTAGE ELECTRICAL DISTRIBUTION SYSTEM, DIVISION 400 AREA
MCB CAMP LEJEUNE, N.C.

POLE DETAILS

SIZE: F — CODE IDENT. NO.: 80091 — NAVFAC DRAWING NO.
CONSTR. CONTR. NO.
SCALE: GRAPHIC — SPEC. — SHEET — OF

12
13
14
E2,453,000
A 1
N366,000
A 2
N365,000
A 3
N364,000
A 4
N363,000
3# 1/0, 12.47/7.2 KV, # 1/0 N
2-8-10
OVERHEAD PRIMARY
UNLESS SINGLE PHA
3-25 KVA
ND-16
ND-17
ND-18
ND-19
ND-20
3# 4, 12.47/7.2 KV, # 4 N, (CG)
ND-21
3-10 KVA
ND-22
ND-23
THIS DRAWING HAS BEEN FIELD VERIFIED





LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- HELICOPTER LANDING ZONE
- RESERVATION BOUNDARY

LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0N (QUANTITY, SIZE, VOLTAGE (KV= KILOVOLT(N=NEUTRAL) MATERIAL COPPER UNLESS ...)
I-8-10 (POLE IDENTIFICATION NUMBER)
OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.

VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA))
OVERHEAD DISTRIBUTION TRANSFORMER

LOCATED IN FIELD
FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)

LOCATED IN FIELD — 3#2, 15 KV, XLP (QUANTITY, SIZE, VOLTAGE (KV), INSULATION)
MH-3 UG or DB 2W4" (MANHOLE IDENTIFICATION NUMBER; DUCT WAYS AND SIZE (INCHES) (DB- DIRECT BURIED))
UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED

VERIFIED IN FIELD — 750 KVA-3 (CAPACITY KVA THREE PHASE OR SINGLE PHASE)
PAD MOUNTED TRANSFORMER

VERIFIED IN FIELD — 1200 A (RATING AMPS)
CIRCUIT BREAKER

VERIFIED IN FIELD — 200 KW (CAPACITY KILOWATTS)
GENERATOR

NORTH

0 200 400 600 800
GRAPHIC SCALE IN FEET

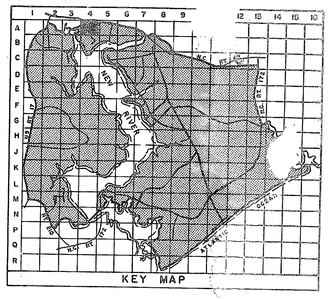
NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET A-2 OF 73

APPROVED / DATE



LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source-USGS Maps)
- HELICOPTER LANDING ZONE
- RESERVATION BOUNDARY
- SWAMP OR MARSH
- OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED. (LOCATED IN FIELD; 3#1/0, 12.47/7.2 KV, #1/0N — QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL) MATERIAL COPPER UNLESS NOTED; I-8-10 — POLE IDENTIFICATION NUMBER)
- OVERHEAD DISTRIBUTION TRANSFORMER (VERIFIED IN FIELD; 3-25 KVA — QUANTITY, CAPACITY (KVA))
- AIR SWITCH OPEN POSITION OR CLOSE POSITION (LOCATED IN FIELD)
- UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED (LOCATED IN FIELD; 3#2, 15 KV, XLP — QUANTITY, SIZE, VOLTAGE (KV), INSULATION; MH-3 UG DB 2W4" — DUCT WAYS AND SIZE (INCHES) (DB-DIRECT BURIED); MANHOLE IDENTIFICATION NUMBER)
- PAD MOUNTED TRANSFORMER (VERIFIED IN FIELD; 750 KVA-3 — CAPACITY KVA THREE PHASE OR SINGLE PHASE)
- VOLTAGE REGULATOR (VERIFIED IN FIELD; 3-500 KVA — QUANTITY, REGULATOR SIZE (KVA))
- GENERATOR (VERIFIED IN FIELD; 200 KW — CAPACITY KILOWATTS)
- CIRCUIT BREAKER (VERIFIED IN FIELD; 1200 A — RATING AMPS)

NORTH

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GRAPHIC SCALE IN FEET

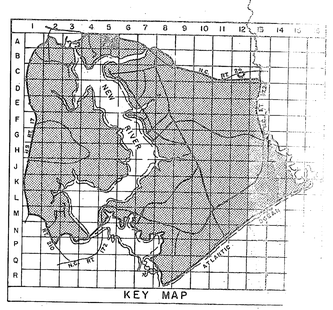
NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET A-4 OF 73

APPROVED / DATE



LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source–USGS Maps)
- RESERVATION BOUNDARY
- OVERHEAD PRIMARY POLE LINE 3 PHASE UNLESS SINGLE PHASE NOTED. (LOCATED IN FIELD; 3#1/0, 12.47/7.2 KV, #1/0N — QUANTITY, SIZE, VOLTAGE (KV=KILOVOLT)(N=NEUTRAL)(MATERIAL COPPER); I-B-10 — POLE IDENTIFICATION NUMBER)
- OVERHEAD DISTRIBUTION TRANSFORMER (VERIFIED IN FIELD; 3-25 KVA — QUANTITY, CAPACITY (KVA))
- FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N.O.) (LOCATED IN FIELD)
- PAD MOUNTED TRANSFORMER (VERIFIED IN FIELD; 750 KVA-3 — CAPACITY KVA THREE PHASE OR SINGLE PHASE)
- METER
- GENERATOR (VERIFIED IN FIELD; 200 KW — CAPACITY KILOWATTS)

NORTH

0 200 400 600 800

GRAPHIC SCALE IN FEET

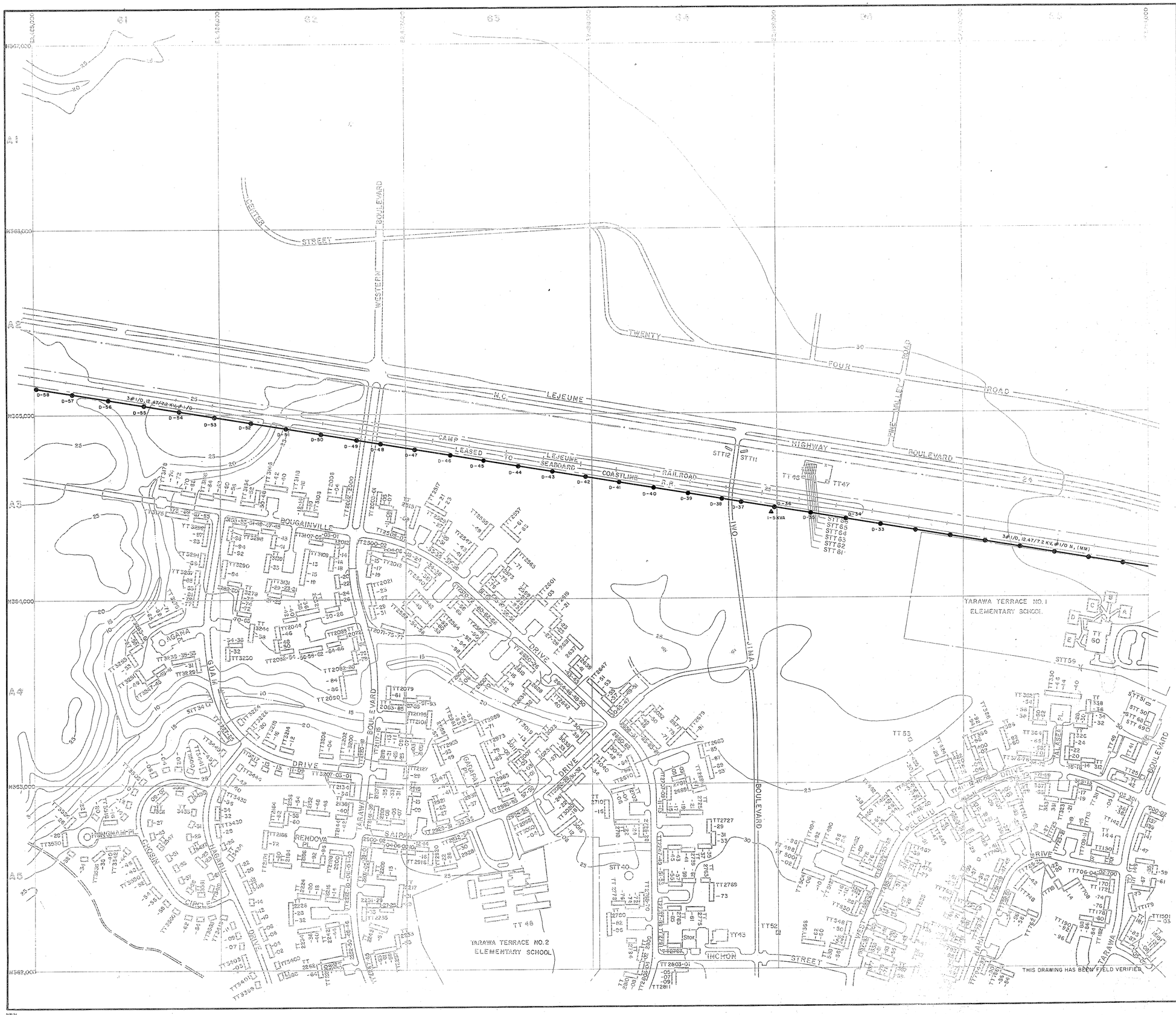
NO.	DESCRIPTION OF REVISION	DATE	INT

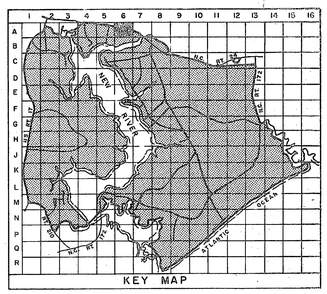
DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET A-5 OF 73

APPROVED / DATE





LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- RESERVATION BOUNDARY

LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT) (N-NEUTRAL) (MATERIAL COPPER UNLESS NOTED)); I-B-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.

VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER

NORTH

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GRAPHIC SCALE IN FEET

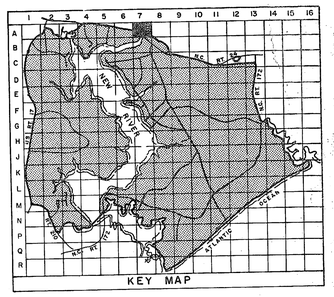
NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET A-6 OF 73

APPROVED / DATE



LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source -USGS Maps)
- RESERVATION BOUNDARY
- SWAMP OR MARSH
- LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0 N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED)); I-B-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)
- M — METER

NORTH

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GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET A-7 OF 73

APPROVED / DATE

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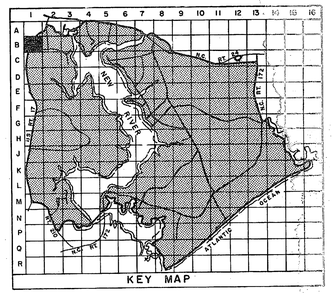

LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- RESERVATION BOUNDARY
- 5' CONTOUR (Source-USGS Maps)
- LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED); Σ-8-10 POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)
- LOCATED IN FIELD — 3#2, 15 KV, XLP (QUANTITY, SIZE, VOLTAGE (KV), INSULATION); MH-3 UG DB 2 W 4" (DUCT WAYS AND SIZE (INCHES) (DB - DIRECT BURIED); MANHOLE IDENTIFICATION NUMBER) — UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED
- VERIFIED IN FIELD — 750 KVA-3 (CAPACITY KVA THREE PHASE OR SINGLE PHASE) — PAD MOUNTED TRANSFORMER

NORTH

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GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INIT.

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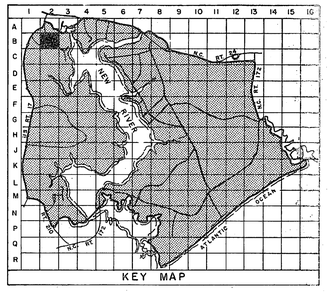
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET B-1 OF 73

APPROVED / DATE



LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source-USGS Maps)
- AIR STATION BOUNDARY
- OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED. (LOCATED IN FIELD; 3-#1/0, 12.47/7.2 KV, #1/0 N — QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED); 1-B-10 — POLE IDENTIFICATION NUMBER)
- OVERHEAD DISTRIBUTION TRANSFORMER (VERIFIED IN FIELD; 3-25 KVA — QUANTITY, CAPACITY (KVA))
- FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N.O.) (LOCATED IN FIELD)
- AIR SWITCH OPEN POSITION OR CLOSE POSITION (LOCATED IN FIELD)
- UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED (LOCATED IN FIELD; 3-#2, 15 KV, XLP — QUANTITY, SIZE, VOLTAGE (KV), INSULATION; MH-3 UG or DB, 2 W 4" — DUCT WAYS AND SIZE (INCHES) (DB-DIRECT BURIED); MANHOLE IDENTIFICATION NUMBER)
- PAD MOUNTED TRANSFORMER (VERIFIED IN FIELD; 750 KVA-3 — CAPACITY KVA THREE PHASE OR SINGLE PHASE)
- CIRCUIT BREAKER (VERIFIED IN FIELD; B, 1200 A — RATING AMPS)
- METER (M)
- GENERATOR (VERIFIED IN FIELD; G, 200 KW — CAPACITY KILOWATTS)

NORTH

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GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84	SCALE: GRAPHIC	SHEET B-2 OF 73
APPROVED / DATE		

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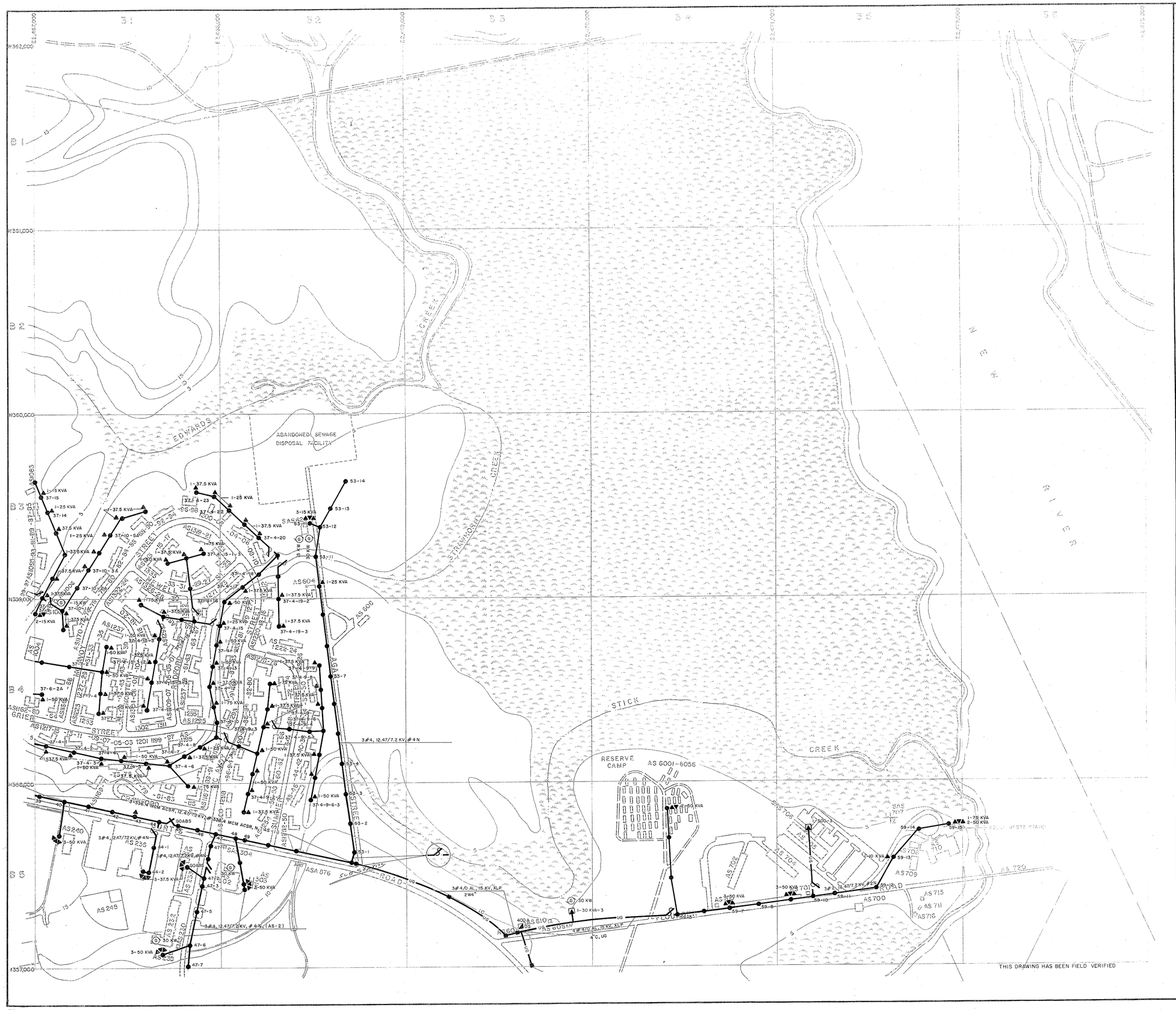

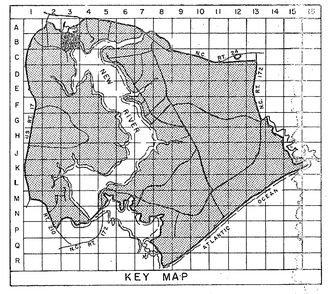

LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- HELICOPTER LANDING ZONE
- 5' CONTOUR (Source – USGS Maps)
- RESERVATION BOUNDARY
- AIR STATION BOUNDARY
- SWAMP OR MARSH

LOCATED IN FIELD — QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT) IN-NEUTRAL) (MATERIAL COPPER UNLESS NOTED) 3#1/0, 12.47/7.2KV, #1/0N; 1-8-10 — POLE IDENTIFICATION NUMBER
OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.

VERIFIED IN FIELD — 3-25 KVA — QUANTITY, CAPACITY (KVA)
OVERHEAD DISTRIBUTION TRANSFORMER

LOCATED IN FIELD
FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)

LOCATED IN FIELD
AIR SWITCH OPEN POSITION OR CLOSED POSITION

LOCATED IN FIELD — QUANTITY, SIZE, VOLTAGE (KV), INSULATION — 3#2, 15 KV, XLP; UG or OH — DUCT WAYS AND SIZE (INCHES) (DB-DIRECT BURIED); MH-3 — MANHOLE IDENTIFICATION NUMBER
UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED

VERIFIED IN FIELD — 750 KVA-3 — CAPACITY KVA THREE PHASE OR SINGLE PHASE
PAD MOUNTED TRANSFORMER

VERIFIED IN FIELD — OS — TYPE - OS - OIL SWITCH
PAD MOUNTED SWITCH

VERIFIED IN FIELD — 200 KW — CAPACITY KILOWATTS
GENERATOR

NORTH

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GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84	SCALE: GRAPHIC	SHEET B-3 OF 73
APPROVED / DATE		

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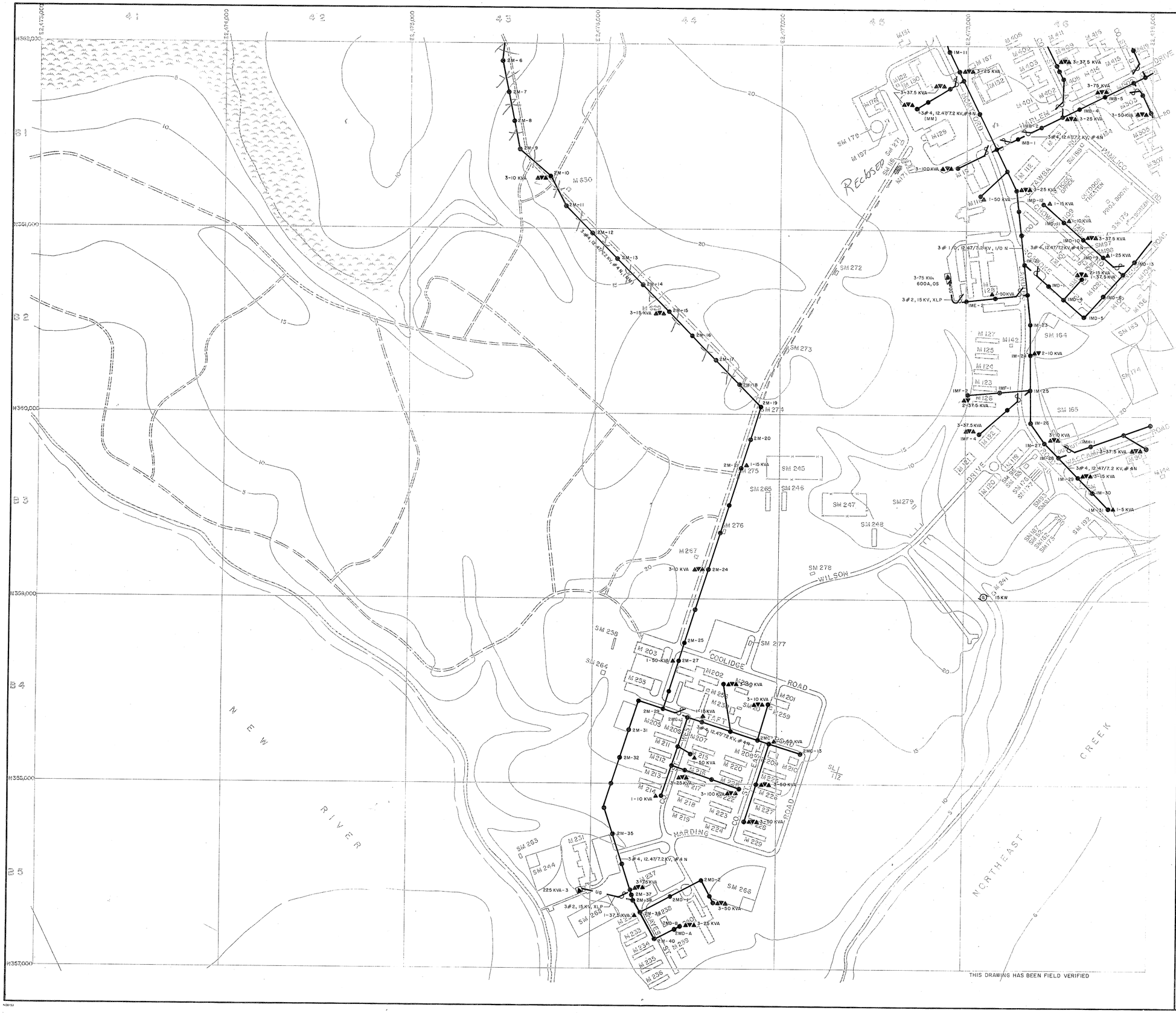

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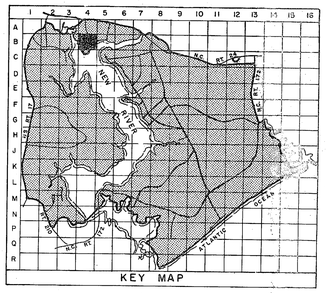

LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (USGS
- IMPACT ZONE
- SWAMP OR MARSH

LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT) N-NEUTRAL) MATERIAL COPPER UNLESS NOTED — I-8-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.

VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER

LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N.O.)

LOCATED IN FIELD — 3#2, 15 KV, XLP (QUANTITY, SIZE, VOLTAGE (KV), INSULATION) — UG — MH-3 (MANHOLE IDENTIFICATION NUMBER) — 6" OR 2 W 4" DB (DUCT WAYS AND SIZE (INCHES) (DB - DIRECT BURIED)) — UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED

VERIFIED IN FIELD — 750 KVA-3 (CAPACITY KVA THREE PHASE OR SINGLE PHASE) — PAD MOUNTED TRANSFORMER

VERIFIED IN FIELD — 600 A OS (RATING AMPS) (TYPE - OIL SWITCH) — PAD MOUNTED SWITCH

VERIFIED IN FIELD — 200 KW (CAPACITY KILOWATTS) — GENERATOR

NORTH

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GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INT.

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ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84	SCALE: GRAPHIC	SHEET B-4 OF 73
APPROVED / DATE		

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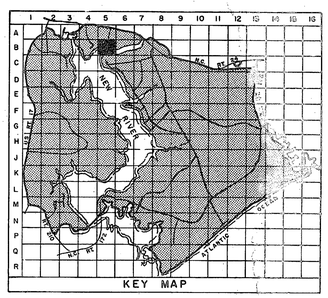

LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source – USGS Maps)
- SWAMP OR MARSH
- LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS); I-8-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)
- VERIFIED IN FIELD — 200 KW (CAPACITY KILOWATTS) — GENERATOR

NORTH

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GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	BY

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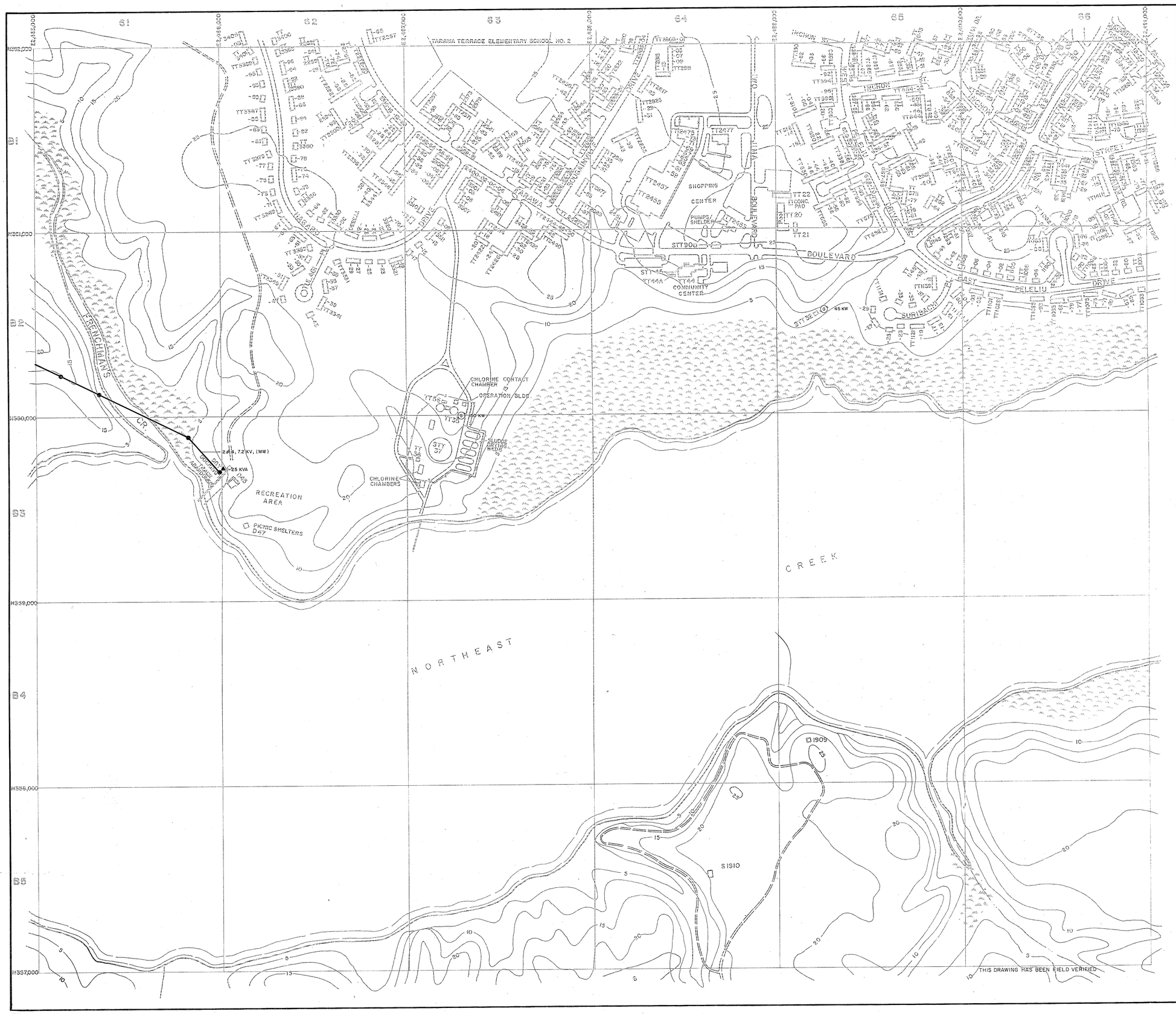
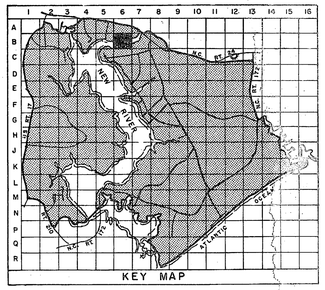
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET B-5 OF 73

APPROVED / DATE





LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- SWAMP OR MARSH

VERIFIED IN FIELD — 200 KW (CAPACITY KILOWATTS) — GENERATOR

LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0 N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL CO)) — 1-B-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE UNLESS SINGLE PHASE NOTED.

VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER

NORTH

0 200 400 600 800

GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	APPRV.

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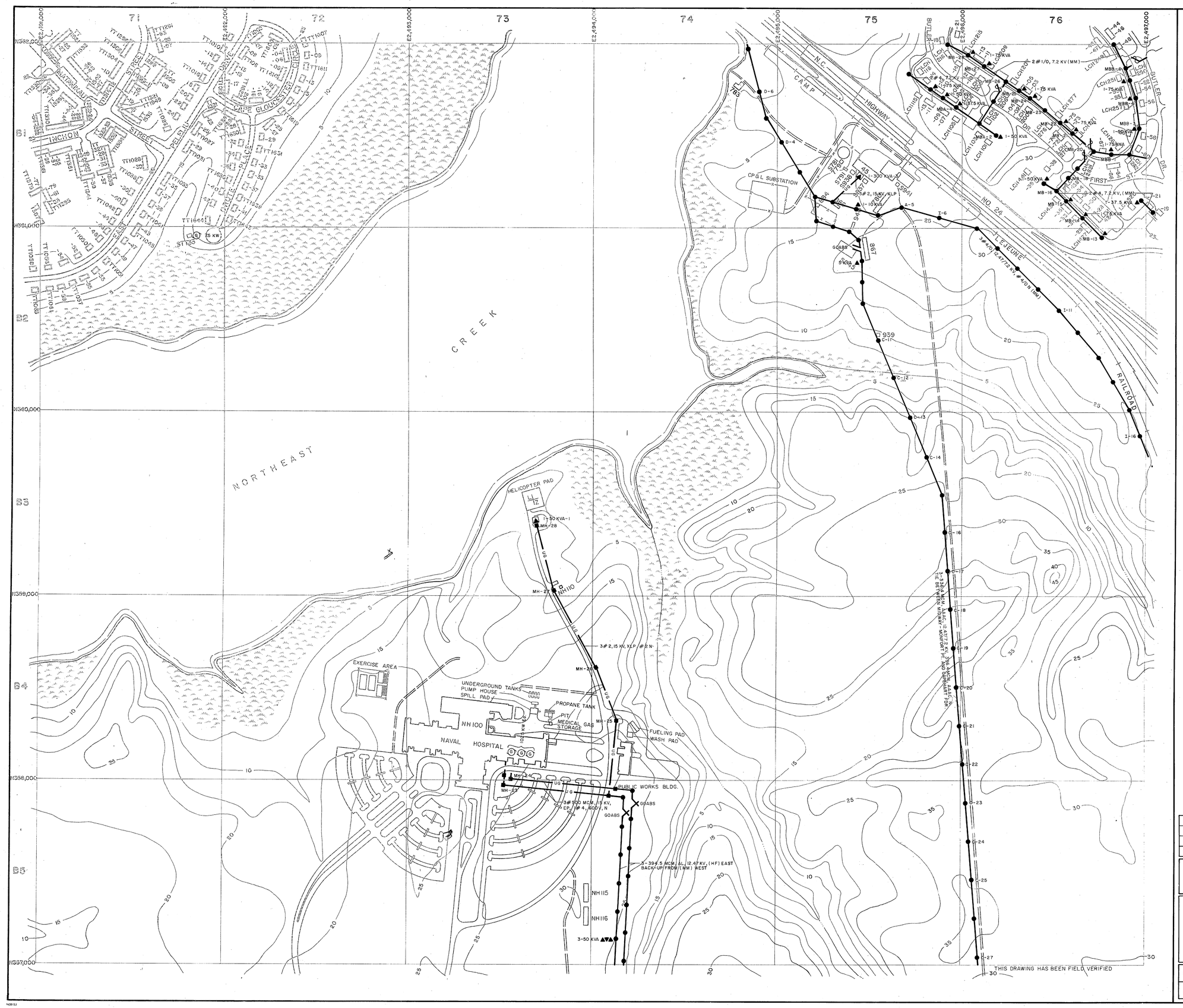
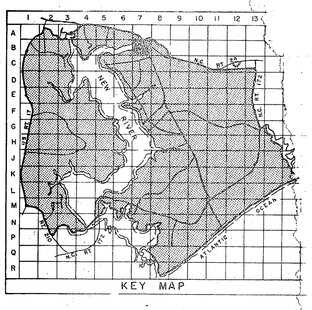
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84	SCALE: GRAPHIC	SHEET B-6 OF 73
APPROVED / DATE		





LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source-USGS Maps)
- SWAMP OR MARSH
- LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0 N — I-8-10 — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N.O.)
- LOCATED IN FIELD — AIR SWITCH (OPEN POSITION OR CLOSE POS
- LOCATED IN FIELD — 3#2, 15 KV, XLP — MH-3 — DB 2 W 4' — UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED
- VERIFIED IN FIELD — 750 KVA-3 — PAD MOUNTED TRANSFORMER
- VERIFIED IN FIELD — 200 KW — GENERATOR

NORTH

0 200 400 600 800
GRAPHIC SCALE IN FEET

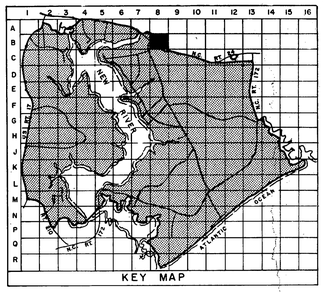
NO.	DESCRIPTION OF REVISION	DATE	INI

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE GRAPHIC | SHEET 8-7 OF 73

APPROVED / DATE



LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- RESERVATION BOUNDARY
- LOCATED IN FIELD — 3 #1/0, 12.47/7.2 KV, #1/0 N — QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED); I-8-10 — POLE IDENTIFICATION NUMBER — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA — QUANTITY, CAPACITY (KVA) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)
- LOCATED IN FIELD — AIR SWITCH OPEN POSITION OR CLOSED POSITION
- VERIFIED IN FIELD — B — 1200 A — RATING AMPS — CIRCUIT BREAKER
- M — METER

NORTH

0 200 400 600 800

GRAPHIC SCALE IN FEET

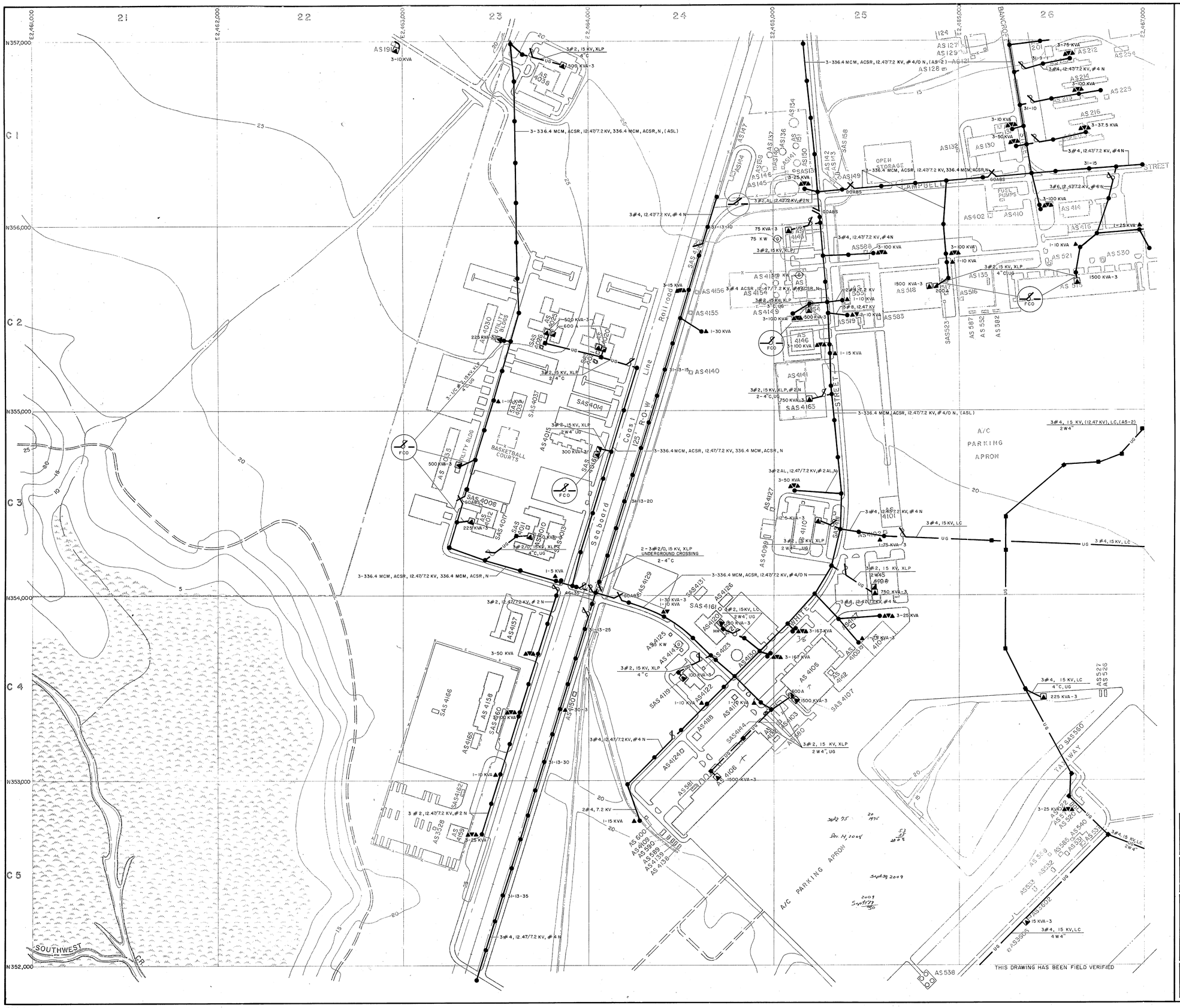
NO.	DESCRIPTION OF REVISION	DATE	INT.

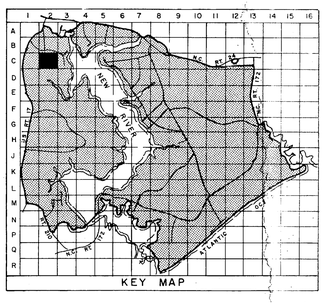
DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET B-8 OF 73

APPROVED / DATE





LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Map)
- AIR STATION BOUNDARY
- SWAMP OR MARSH
- LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, # 1/0 N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL CODE UNLESS NOTED); I-8-10 POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N.O.)
- LOCATED IN FIELD — AIR SWITCH OPEN POSITION OR CLOSE POSITION
- LOCATED IN FIELD — 3#2, 15 KV, XLP (QUANTITY, SIZE, VOLTAGE (KV), INSULATION); MH-3 (MANHOLE (IDENTIFICATION NUMBER HANDHOLE); UG DB 2W4" (DUCT WAYS AND SIZE (INCHES) (DB - DIRECT BURIED)) — UNDERGROUND PRIMARY LINE, 3 PHASE UNLESS SINGLE PHASE NOTED
- VERIFIED IN FIELD — 750 KVA-3 (CAPACITY KVA THREE PHASE OR SINGLE PHASE) — PAD MOUNTED TRANSFORMER
- VERIFIED IN FIELD — 600 A OS (TYPE, RATING) — PAD MOUNTED SWITCH
- VERIFIED IN FIELD — G, 200 KW (CAPACITY KILOWATTS) — GENERATOR

NORTH

0 200 400 600 800
GRAPHIC SCALE IN FEET

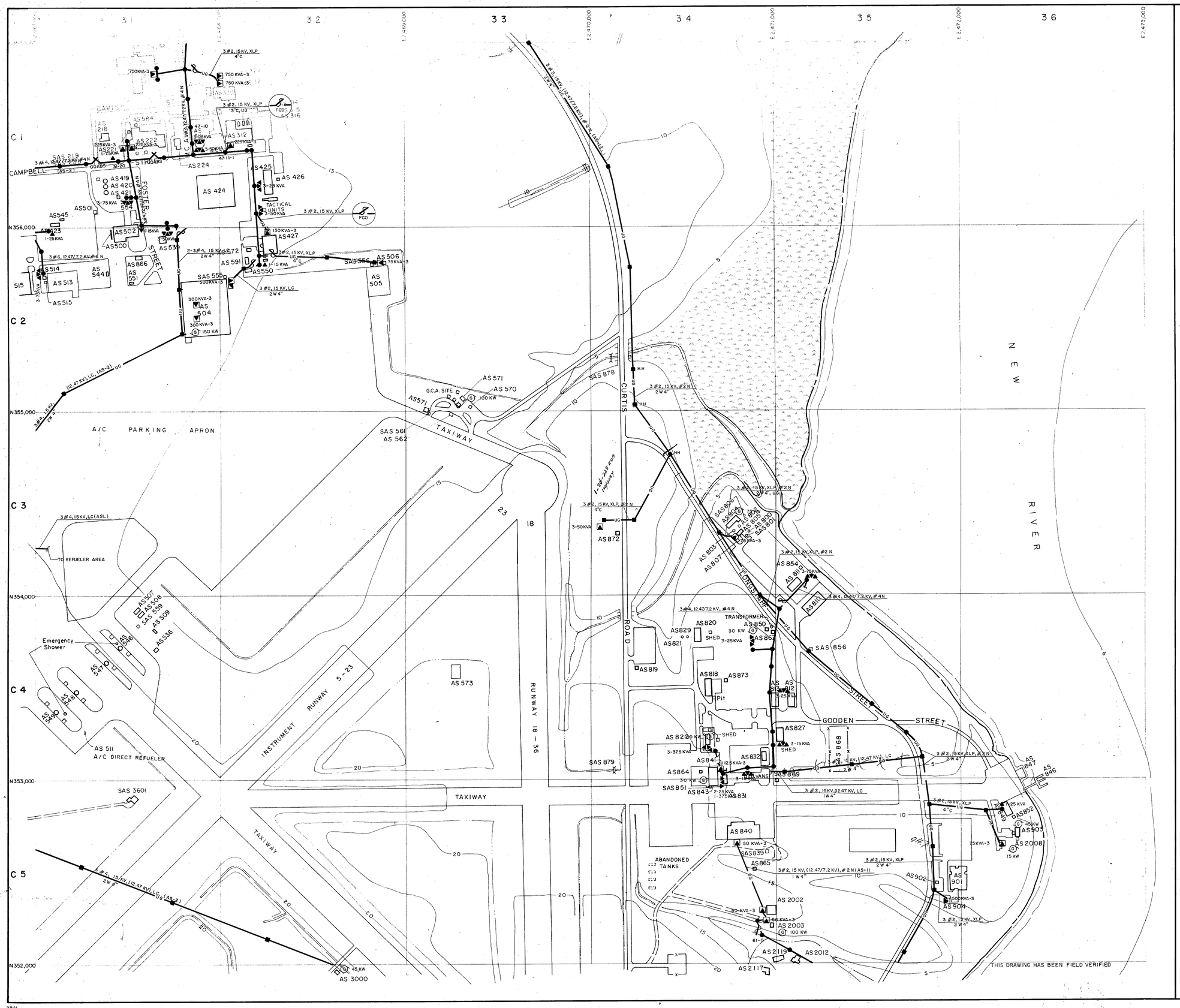
NO.	DESCRIPTION OF REVISION	DATE	INT.

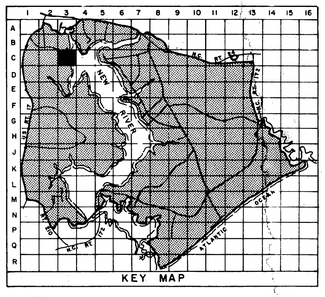
DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET C-2 OF 73

APPROVED / DATE





LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source-USGS Maps)
- AIR STATION BOUNDARY
- SWAMP OR MARSH
- LOCATED IN FIELD — QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL) MATERIAL COPPER (UNLESS NOTED). 3#1/0, 12.47/7.2 KV, #1/0 N — I-B-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N.O.)
- LOCATED IN FIELD — AIR SWITCH OPEN POSITION OR CLOSE POSITION
- LOCATED IN FIELD — QUANTITY, SIZE, VOLTAGE (KV), INSULATION — 3#2, 15KV, XLP — UG or OB — 2 W 4" (DUCT WAYS AND SIZE (INCHES) (OB - DIRECT BURIED)) — MH-3 or HH (MANHOLE IDENTIFICATION NUMBER, HANDHOLE) — UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED
- VERIFIED IN FIELD — 750 KVA-3 (CAPACITY KVA THREE PHASE OR SINGLE PHASE) — PAD MOUNTED TRANSFORMER
- VERIFIED IN FIELD — OS (TYPE) — PAD MOUNTED SWITCH
- VERIFIED IN FIELD — 200 KW (CAPACITY KILOWATTS) — GENERATOR

NORTH

0 200 400 600 800

GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84	SCALE: GRAPHIC	SHEET C-3 OF 73
APPROVED / DATE		

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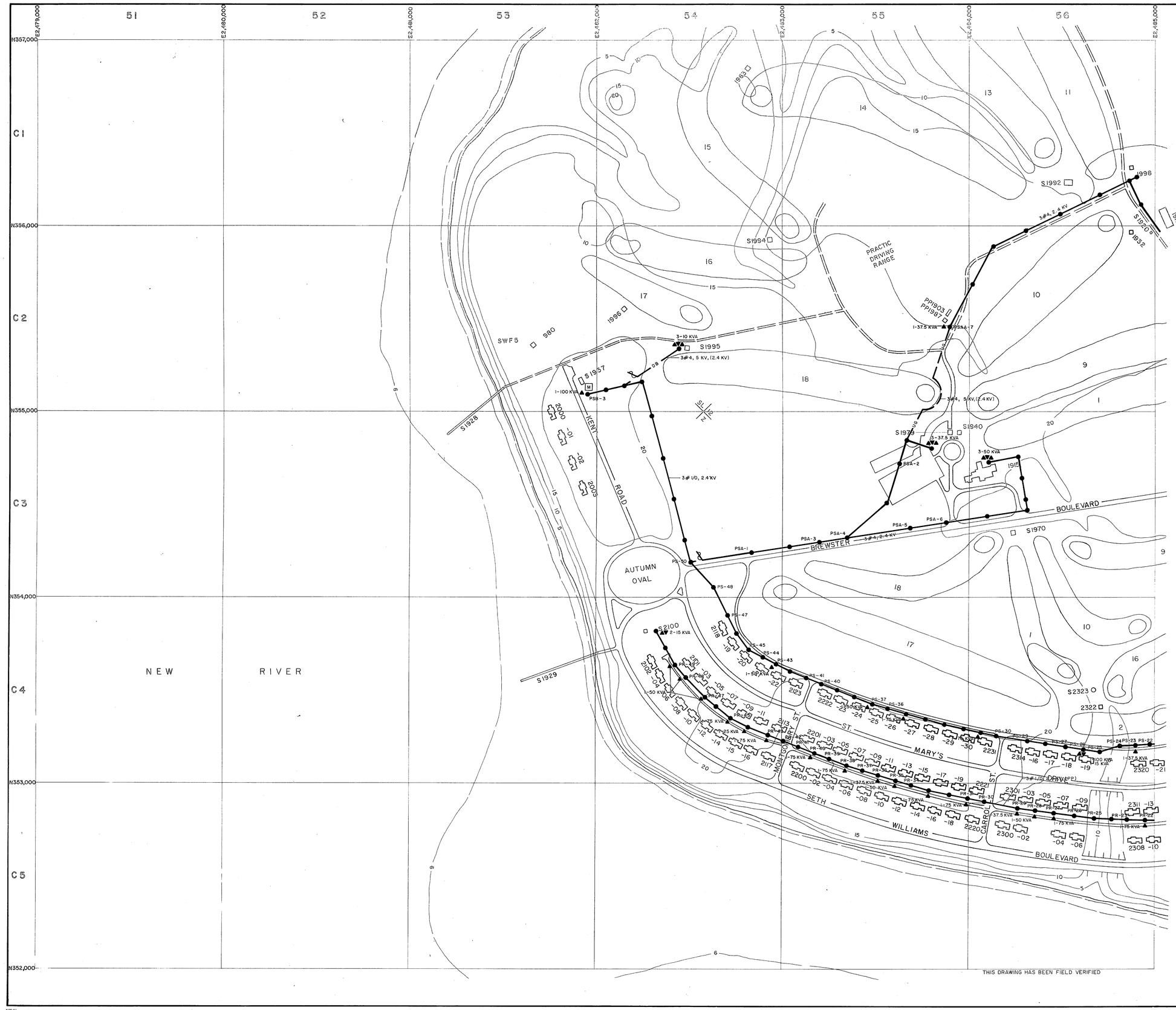

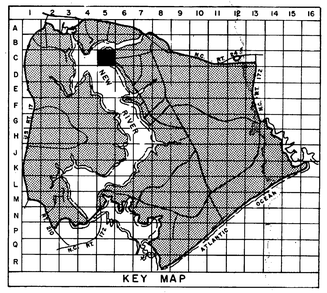

LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- HELICOPTER LANDING ZONE
- OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED. (LOCATED IN FIELD: 3#1/0, 12.47/7.2 KV, #1/0N — QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT) (N-NEUTRAL) (MATERIAL COPPER UNLESS NOTED); 1-B-10 — POLE IDENTIFICATION NUMBER)
- OVERHEAD DISTRIBUTION TRANSFORMER (VERIFIED IN FIELD: 3-25 KVA — QUANTITY, CAPACITY (KVA))
- FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.) (LOCATED IN FIELD)
- UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED (LOCATED IN FIELD: 3#2, 15 KV, XLP — QUANTITY, SIZE, VOLTAGE (KV), INSULATION; UG — DUCT WAYS AND SIZE (INCHES) (DB-DIRECT BURIED); MH-3 — MANHOLE IDENTIFICATION NUMBER)
- METER

NORTH

0 200 400 600 800

GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET C-5 OF 73

APPROVED / DATE

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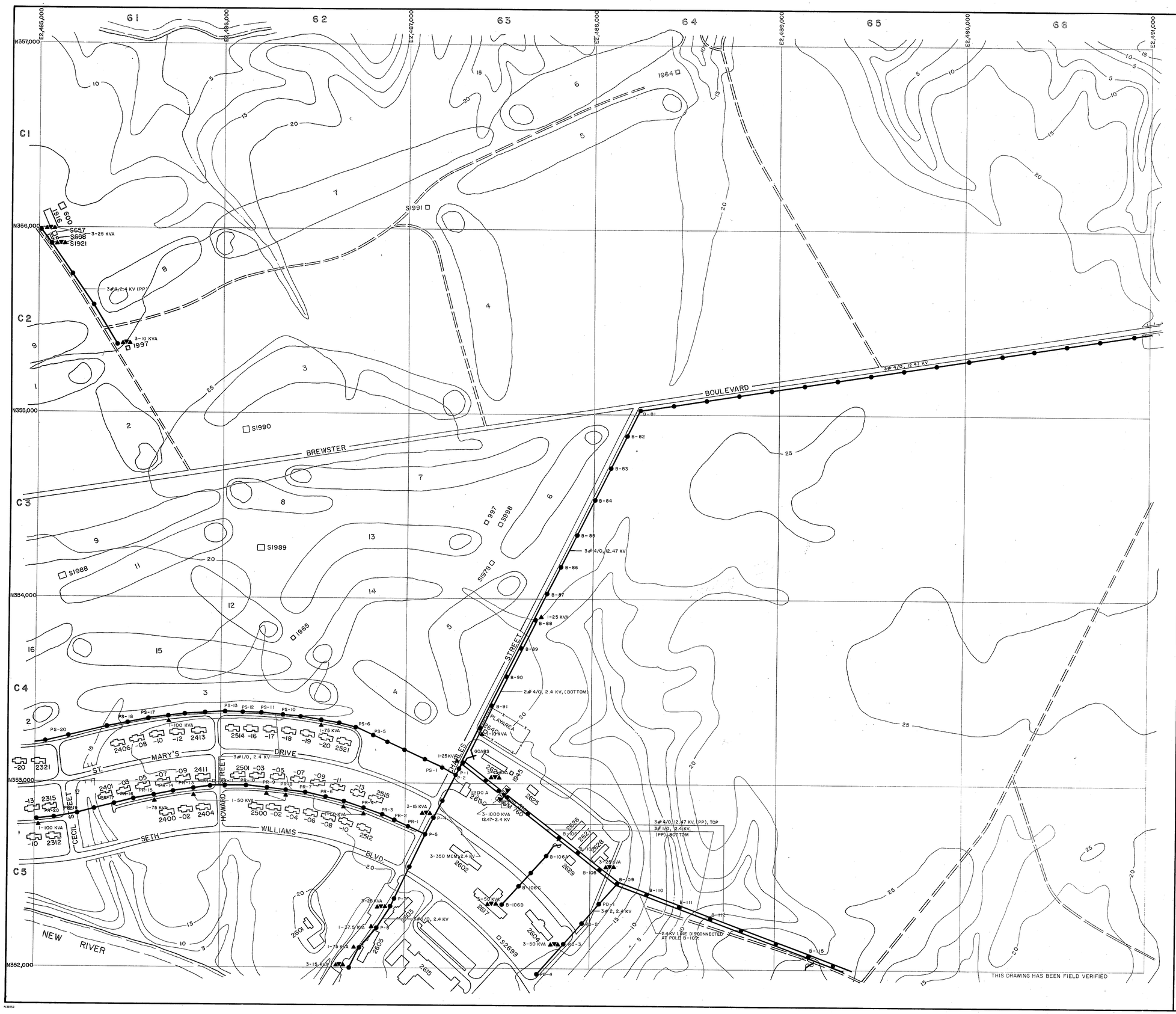
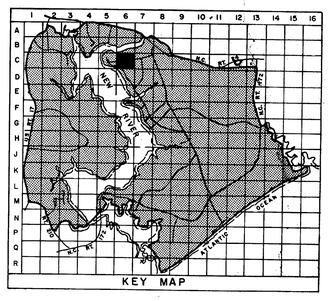




LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source-USGS Maps)
- LOCATED IN FIELD — QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED) 3#1/0, 12.47/7.2 KV, #1/0N — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED. — I-B-10 POLE IDENTIFICATION NUMBER
- VERIFIED IN FIELD — 3-25 KVA — OVERHEAD DISTRIBUTION TRANSFORMER — QUANTITY, CAPACITY (KVA)
- LOCATED IN FIELD — AIR SWITCH OPEN POSITION OR CLOSE POSITION
- VERIFIED IN FIELD — B — CIRCUIT BREAKER — 1200 A RATING AMPS

NORTH

0 200 400 600 800
GRAPHIC SCALE IN FEET

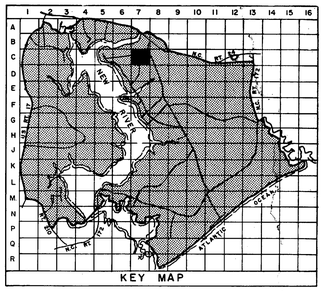
NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET C-6 OF 73

APPROVED / DATE



LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- 3#1/0, 12.47/7.2 KV, #1/0 N — QUANTITY, SIZE, VOLTAGE (KV=KILOVOLT)(N=NEUTRAL)(MATERIAL COPPER UNLESS NOTED) — I-8-10 POLE IDENTIFICATION NUMBER — LOCATED IN FIELD — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- 3-25 KVA — QUANTITY, CAPACITY (KVA) — VERIFIED IN FIELD — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)
- LOCATED IN FIELD — AIR SWITCH OPEN POSITION OR CLOSE POSITION
- 3#2, 15 KV, XLP — QUANTITY, SIZE, VOLTAGE (KV), INSULATION — MH-3 UG or DB 2W4" — DUCT WAYS AND SIZE (INCHES)(DB-DIRECT BURIED) — MANHOLE IDENTIFICATION NUMBER — LOCATED IN FIELD — UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED
- 750 KVA-3 — CAPACITY KVA THREE PHASE OR SINGLE PHASE — VERIFIED IN FIELD — PAD MOUNTED TRANSFORMER
- M — METER
- B 200 A — RATING AMPS — VERIFIED IN FIELD — CIRCUIT BREAKER
- capacitors

NORTH

0 200 400 600 800

GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET C-7 OF 73

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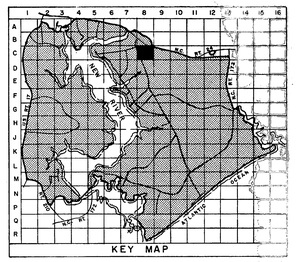

LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- RESERVATION BOUNDARY
- LOCATED IN FIELD — QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED) 3#1/0, 12.47/7.2 KV, #1/0 N — I-8-10 POLE IDENTIFICATION NUMBER — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA QUANTITY, CAPACITY (KVA) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.
- LOCATED IN FIELD — AIR SWITCH OPEN POSITION OR CLOSE POSITION
- LOCATED IN FIELD — QUANTITY, SIZE, VOLTAGE (KV), INSULATION 3#2, 15 KV, XLP — UG MH-3 2" DB 4" — DUCT WAYS AND SIZE (INCHES) (DB-DIRECT BURIED) — MANHOLE IDENTIFICATION NUMBER — UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED
- VERIFIED IN FIELD — 750 KVA-3 CAPACITY KVA THREE PHASE OR SINGLE PHASE — PAD MOUNTED TRANSFORMER
- VERIFIED IN FIELD — 3-500 KVA QUANTITY, REGULATOR SIZE (KVA) — VOLTAGE REGULATOR
- VERIFIED IN FIELD — 200 KW CAPACITY KILOWATTS — GENERATOR
- M — METER

NORTH

0 200 400 600 800
GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INIT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84	SCALE: GRAPHIC	SHEET C-8 OF 73

APPROVED / DATE

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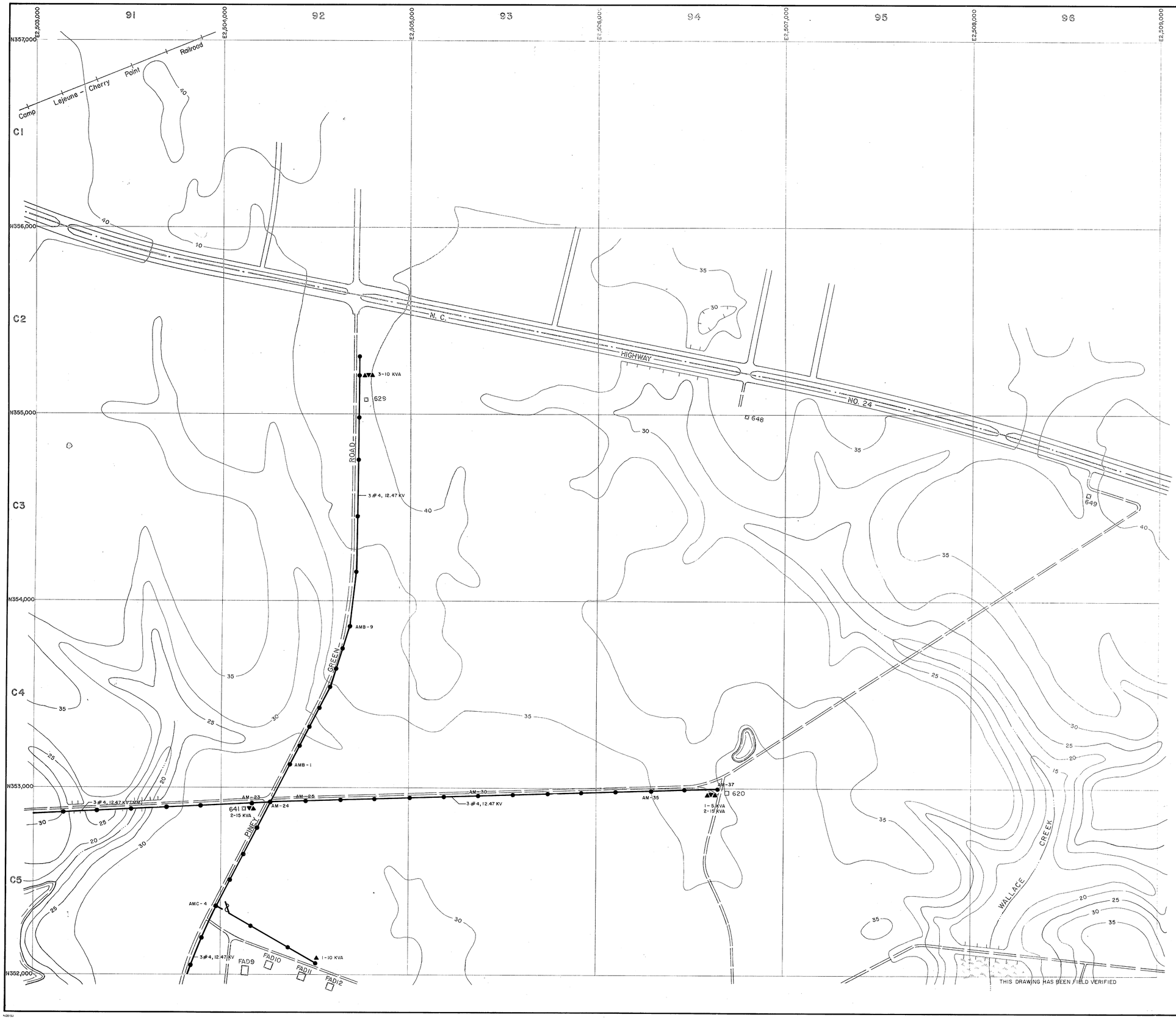

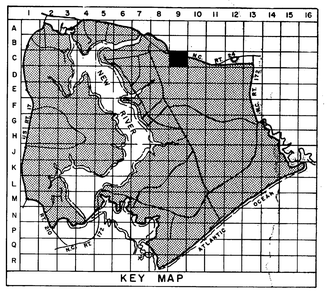

LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- RESERVATION BOUNDARY
- SWAMP OR MARSH
- LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0 N (QUANTITY, SIZE, VOLTAGE (KV=KILOVOLT) (N=NEUTRAL) (MATERIAL COPPER UNLESS NOTED)); 1-8-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)

NORTH

0 200 400 600 800
GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET C-9 OF 73

APPROVED / DATE

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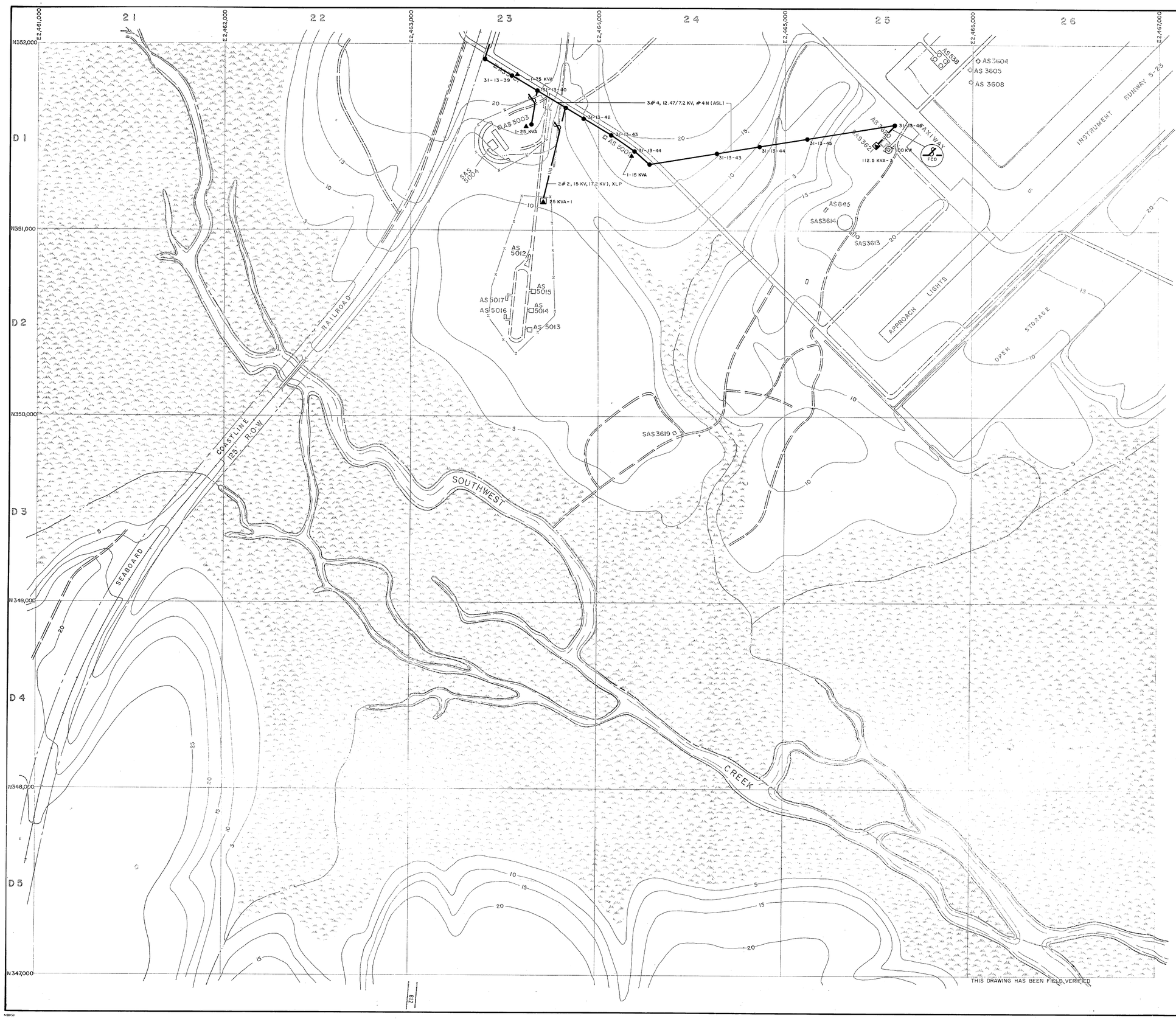

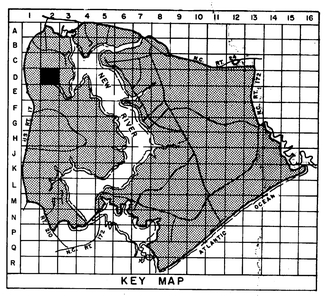

LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source-USGS Maps)
- AIR STATION BOUNDARY
- SWAMP OR MARSH
- LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0 N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLTS)(N-NEUTRAL)(MATERIAL: COPPER UNLESS NOTED)) — I-B-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)
- LOCATED IN FIELD — 3#2, 15 KV, XLP (QUANTITY, SIZE, VOLTAGE (KV), INSULATION) — MH-3 UG OF 2W4" DB (DUCT WAYS AND SIZE (INCHES) (DB-DIRECT BURIED)) (MANHOLE IDENTIFICATION NUMBER) — UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED
- VERIFIED IN FIELD — 750 KVA-3 (CAPACITY KVA THREE PHASE OR SINGLE PHASE) — PAD MOUNTED TRANSFORMER
- VERIFIED IN FIELD — G — 200 KW (CAPACITY KILOWATTS) — GENERATOR

NORTH

0 200 400 600 800

GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
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CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET D-2 OF 73

APPROVED / DATE

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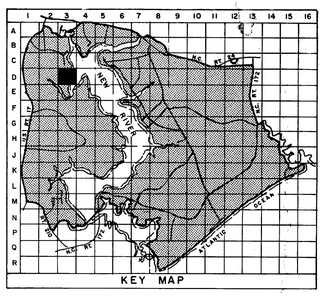

LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source -USGS Maps)
- AIR STATION BOUNDARY
- SWAMP OR MARSH

LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0 N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED); I-8-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE UNLESS SINGLE PHASE NOTED.

VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER

LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)

LOCATED IN FIELD — 3#2, 15 KV, XLP (QUANTITY, SIZE, VOLTAGE (KV), INSULATION); MH-3 (MANHOLE IDENTIFICATION NUMBER); UG DB 2 W 4" (DUCT WAYS AND SIZE (INCHES) (DB-DIRECT BURIED)) — UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED

VERIFIED IN FIELD — 750 KVA-3 (CAPACITY KVA THREE PHASE OR SINGLE PHASE) — PAD MOUNTED TRANSFORMER

VERIFIED IN FIELD — B 1200 A (RATING AMPS) — CIRCUIT BREAKER

M — METER

VERIFIED IN FIELD — G 200 KW (CAPACITY KILOWATTS) — GENERATOR

NORTH

0 200 400 600 800

GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET D-3 OF 73

APPROVED / DATE

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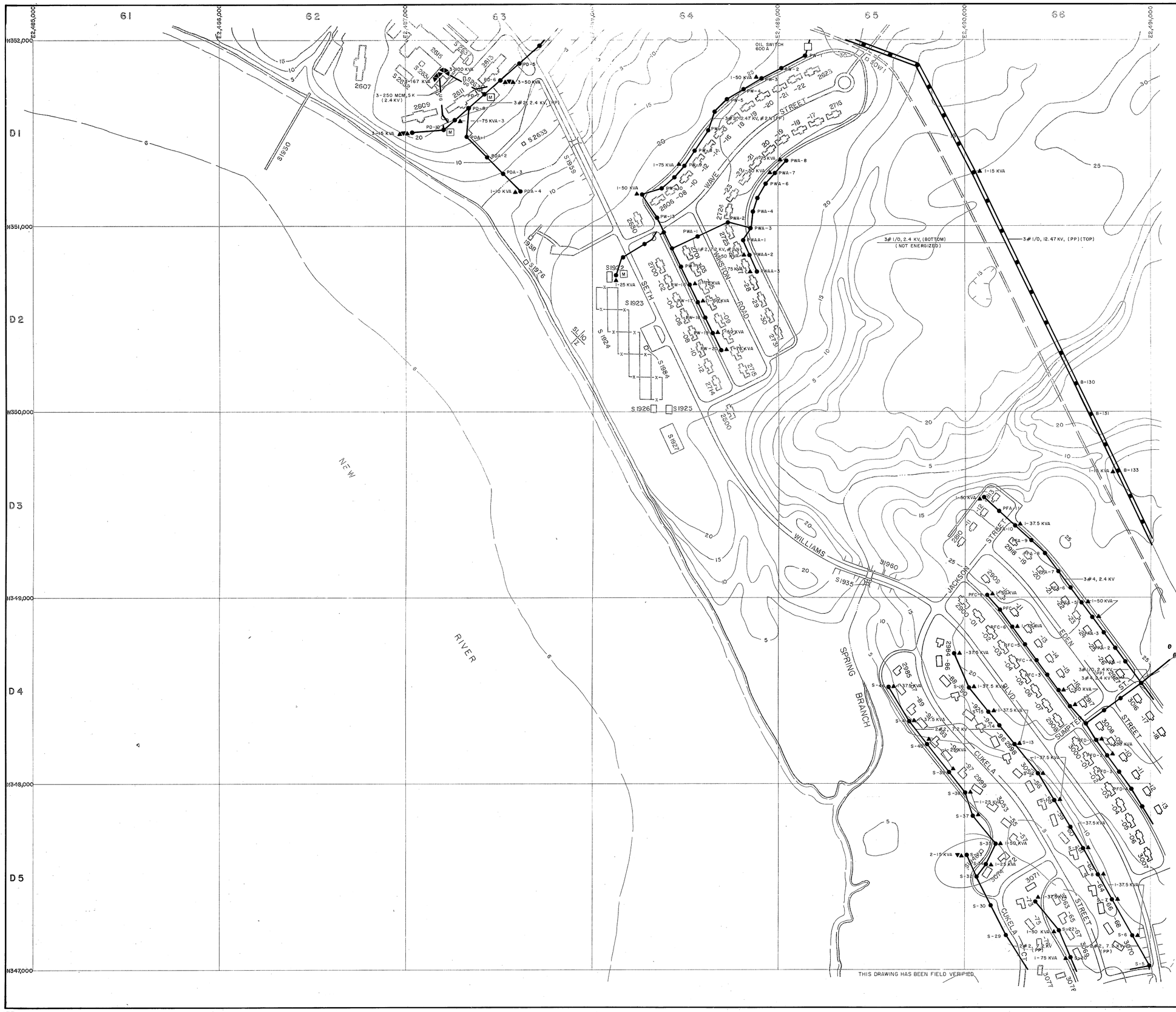
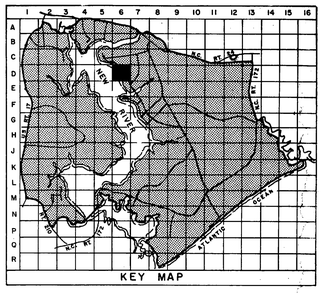




LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- SL 10 / Z — HELICOPTER LANDING ZONE
- LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED); 1-8-10 POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N.O.)
- LOCATED IN FIELD — 3#2, 15 KV, XLP (QUANTITY, SIZE, VOLTAGE (KV), INSULATION); MH-3 (MANHOLE IDENTIFICATION NUMBER); UG 5' DB 2W 4" (DUCT WAYS AND SIZE (INCHES) (DB-DIRECT BURIED)) — UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED
- M — METER

NORTH

0 200 400 600 800
GRAPHIC SCALE IN FEET

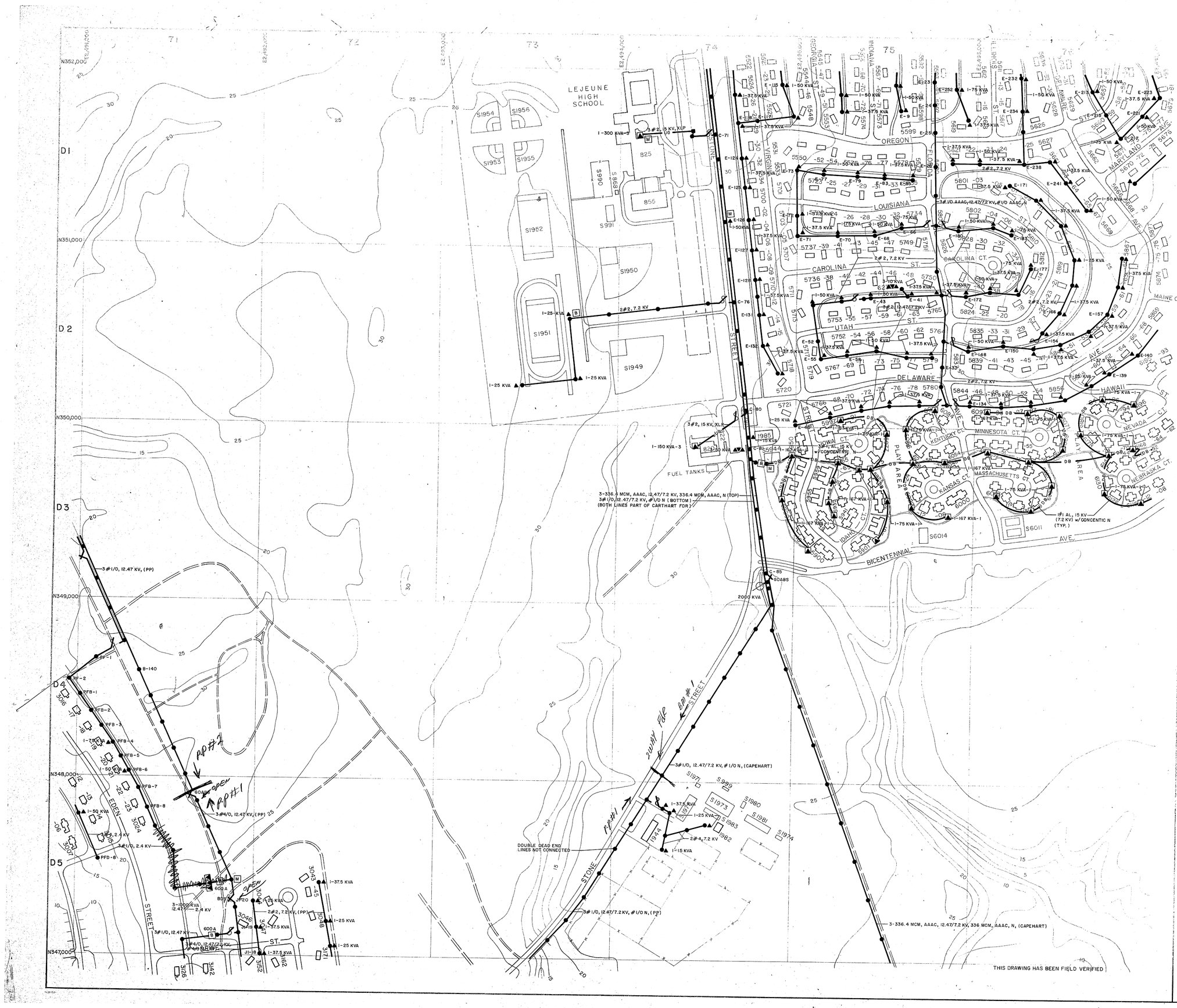
NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84	SCALE: GRAPHIC	SHEET D-6 OF 73
APPROVED / DATE		

60 OH



LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (UNPAVED)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0N — QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT) (N-NEUTRAL) (MATERIAL COPPER UNLESS NOTED) — I-B-10 (POLE IDENTIFICATION NUMBER): OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)): OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD: FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)
- LOCATED IN FIELD: AIR SWITCH OPEN POSITION OR CLOSED POSITION
- LOCATED IN FIELD — 3#2, 15 KV, XLP — QUANTITY, SIZE, VOLTAGE (KV), INSULATION; MH-3 (MANHOLE IDENTIFICATION NUMBER) — UG or DB — 2 W 4" (DUCT WAYS AND SIZE (INCHES) (DB-DIRECT BURIED)): UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED
- VERIFIED IN FIELD — 750 KVA-3 (CAPACITY KVA THREE PHASE OR SINGLE PHASE): PAD MOUNTED TRANSFORMER
- VERIFIED IN FIELD — 3-500 KVA (QUANTITY, REGULATOR SIZE (KVA)): VOLTAGE REGULATOR
- VERIFIED IN FIELD — 1200 A (RATING AMPS): CIRCUIT BREAKER
- M: METER

NORTH

0 200 400 600 800
GRAPHIC SCALE IN FEET

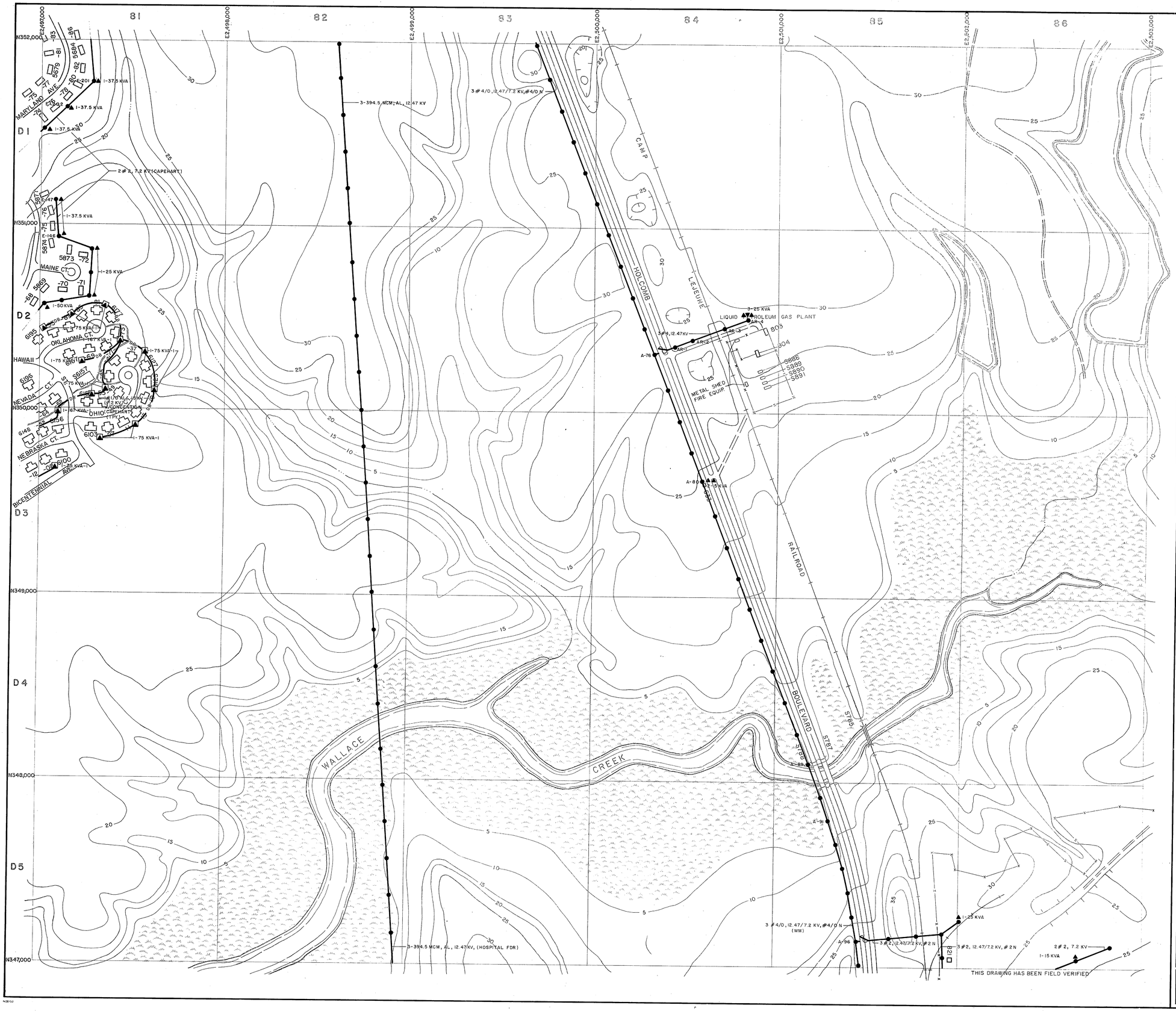
NO	DESCRIPTION OF REVISION	DATE

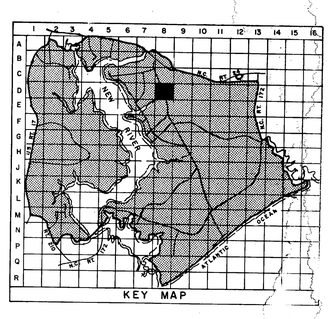
DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84	SCALE: GRAPHIC	SHEET D-7 OF 73
APPROVED / DATE		

14620





LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- SWAMP OR MARSH
- LOCATED IN FIELD — 3 #1/0, 12.47/7.2 KV, #1/0 N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT) (N-NEUTRAL) (MATERIAL COPPER UNLESS NOTED); I-8-10 POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHA UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORME
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNL SS INDICATED BY N. O.)
- LOCATED IN FIELD — 3 #2, 15 KV, XLP (QUANTITY, SIZE, VOLTAGE (KV), INSULATION); MH-3 (MANHOLE IDENTIFICATION NUMBER); UG 2" DB 2" W 4" (DUCT WAYS AND SIZE (INCHES) (DB - DIRECT BURIED)) — UNDERGROUND PRIMARY LINE, 3 PHAR UNLESS SINGLE PHASE NOTED
- VERIFIED IN FIELD — 750 KVA - 3 (CAPACITY KVA THREE PHASE OR SINGLE PHASE) — PAD MOUNTED TRANSFORMER

NORTH

0 200 400 600 800

GRAPHIC SCALE IN FEET

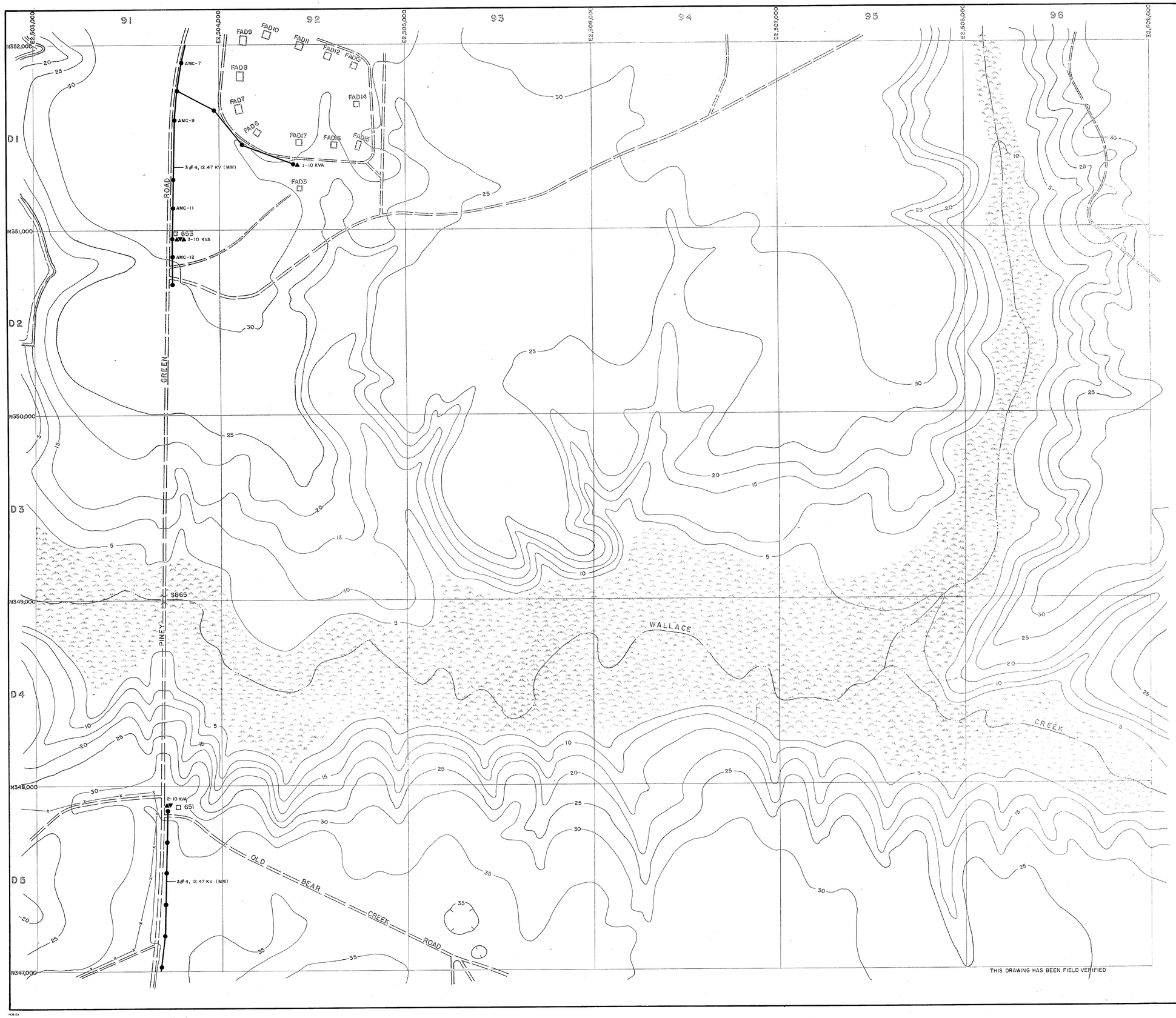
NO.	DESCRIPTION OF REVISION	DATE	INT.

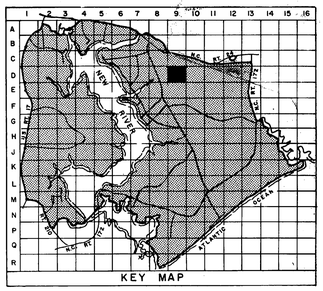
DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84	SCALE: GRAPHIC	SHEET D-8 OF 73
APPROVED / DATE		

13 PM
15 HH





LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- SWAMP OR MARSH

LOCATED IN FIELD — QUANTITY, SIZE, VOLTAGE (KV - KILOVOLT) (N - NEUTRAL) (MATERIAL COPPER UNLESS NOTED) — 3-#1/0, 12.47/7.2 KV, #1/0N — I-B-10 — POLE IDENTIFICATION NUMBER

OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.

VERIFIED IN FIELD — 3-25 KVA — QUANTITY, CAPACITY (KVA)

OVERHEAD DISTRIBUTION TRANSFORMER.

NORTH

0 200 400 600 800

GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET D-9 OF 73

APPROVED / DATE

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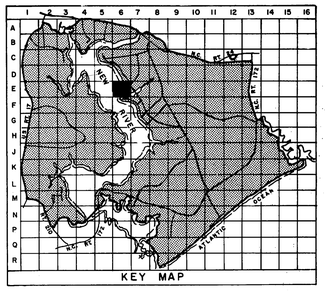

LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source – USGS Maps)
- SWAMP OR MARSH
- LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0 N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED)); I-8-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N.O.)

NORTH

0 200 400 600 800

GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84	SCALE: GRAPHIC	SHEET E-6 OF 73
APPROVED / DATE		

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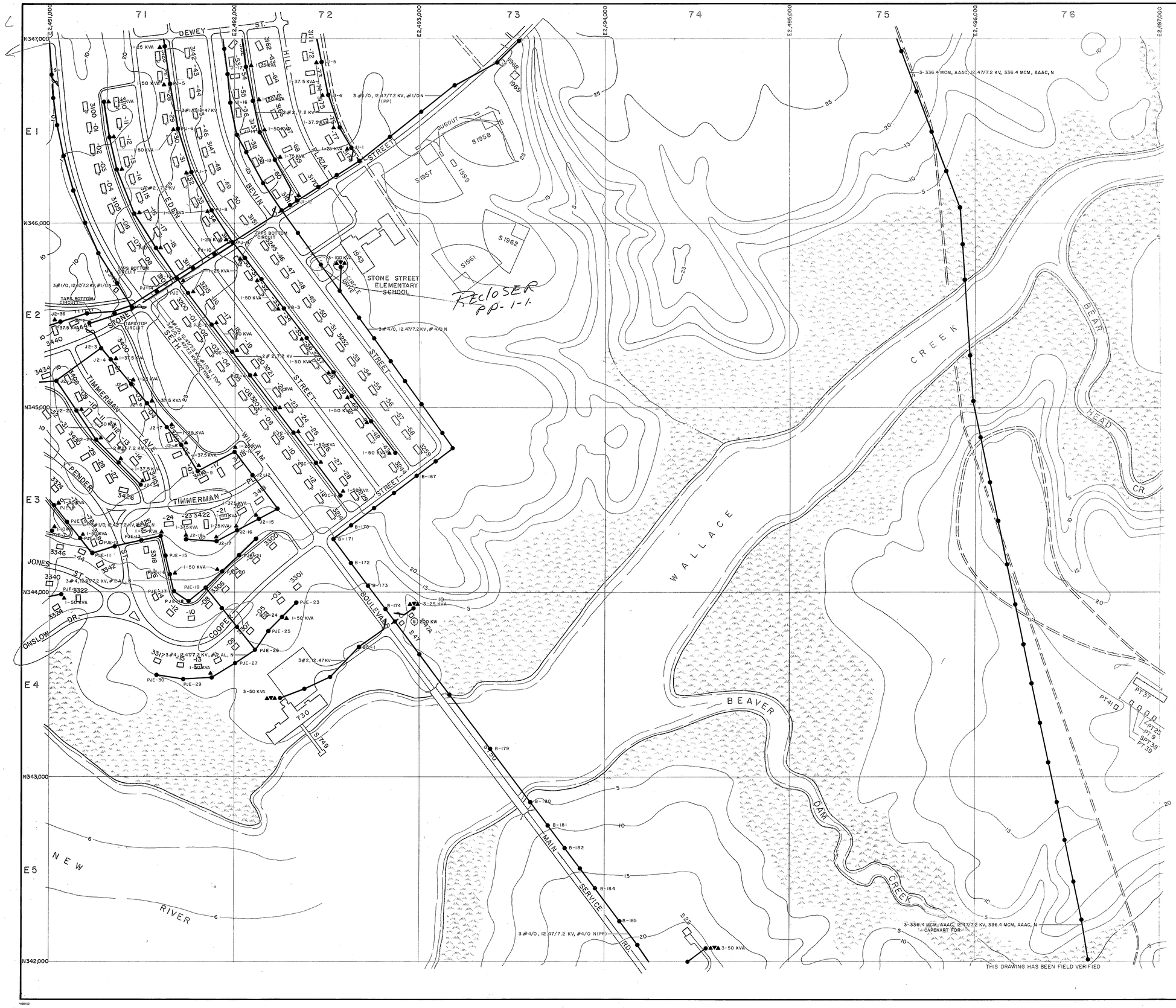
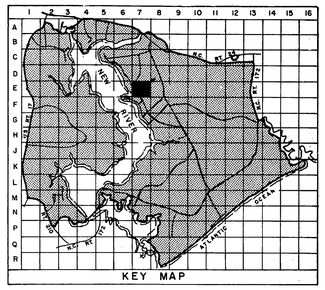




LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source – USGS Maps)
- SWAMP OR MARSH
- LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT) (N-NEUTRAL) (MATERIAL COPPER UNLESS NOTED); I-8-10 POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)
- VERIFIED IN FIELD — 200 KW (CAPACITY KILOWATTS) — GENERATOR

NORTH

0 200 400 600 800
GRAPHIC SCALE IN FEET

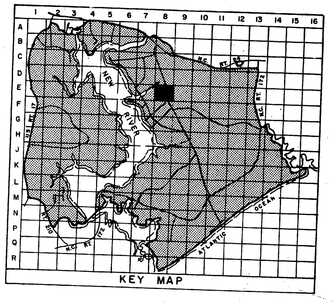
NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET E-7 OF 73

APPROVED / DATE



LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source — USGS Maps)
- SL 20/2 — HELICOPTER LANDING ZONE
- SWAMP OR MARSH
- LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0 N — QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED); I-8-10 — POLE IDENTIFICATION NUMBER — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA — QUANTITY, CAPACITY (KVA) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)
- LOCATED IN FIELD — AIR SWITCH OPEN POSITION OR CLOSE POSITION
- VERIFIED IN FIELD — 200 KW — CAPACITY KILOWATTS — GENERATOR

NORTH

0 200 400 600 800
GRAPHIC SCALE IN FEET

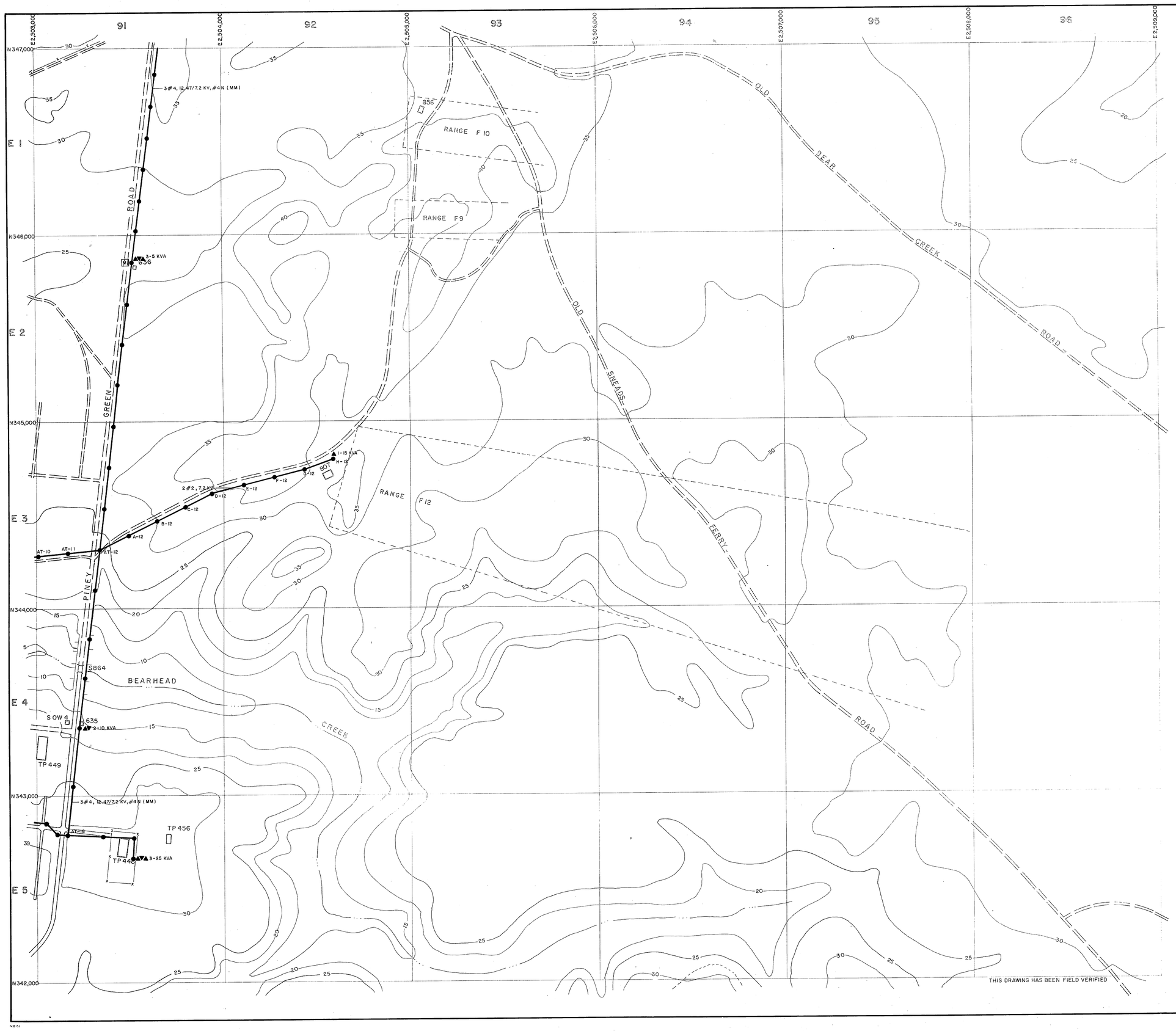
NO.	DESCRIPTION OF REVISION	DATE	INT.

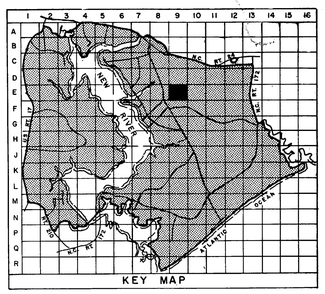
DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET E-8 OF 73

APPROVED / DATE





LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source – USGS Maps)
- LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0 N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT) (N-NEUTRAL) (MATERIAL COPPER UNLESS NOTED)); 1-B-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER
- M — METER

NORTH

0 200 400 600 800

GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INT.

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MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET E-9 OF 73

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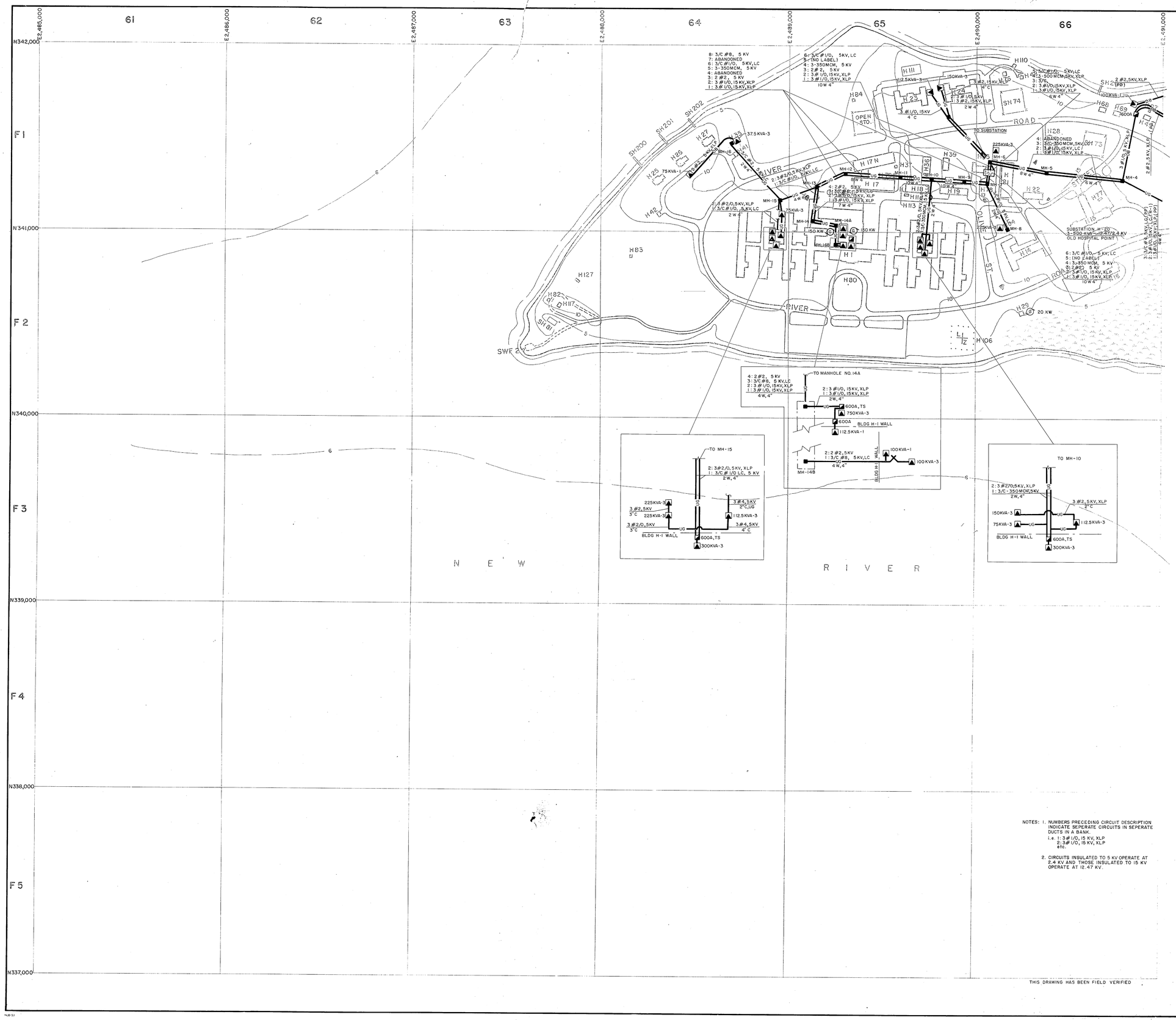
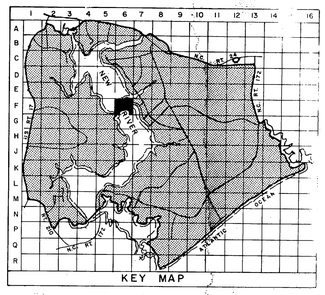




LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source – USGS Maps)
- HELICOPTER LANDING ZONE
- SWAMP OR MARSH

LOCATED IN FIELD — AIR SWITCH OPEN POSITION OR CLOSE POSITION

LOCATED IN FIELD — QUANTITY, SIZE, VOLTAGE (KV), INSULATION (MATERIAL COPPER UNLESS NOTED) — 3 #2, 15 KV, XLP — UG — 2"C — 2 W 4" — DUCT WAYS AND SIZE (INCHES) (DB - DIRECT BURIED) — UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED

MANHOLE — MH-3 — MANHOLE IDENTIFICATION NUMBER

VERIFIED IN FIELD — 750 KVA-3 — CAPACITY KVA THREE PHASE OR SINGLE PHASE — PAD MOUNTED TRANSFORMER

VERIFIED IN FIELD — TS — TRANSFER SWITCH — PAD MOUNTED SWITCH

VERIFIED IN FIELD — 200 KW — CAPACITY KILOWATTS — GENERATOR

SUBSTATION (AS DESCRIBED)

NORTH

0 200 400 600 800

GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

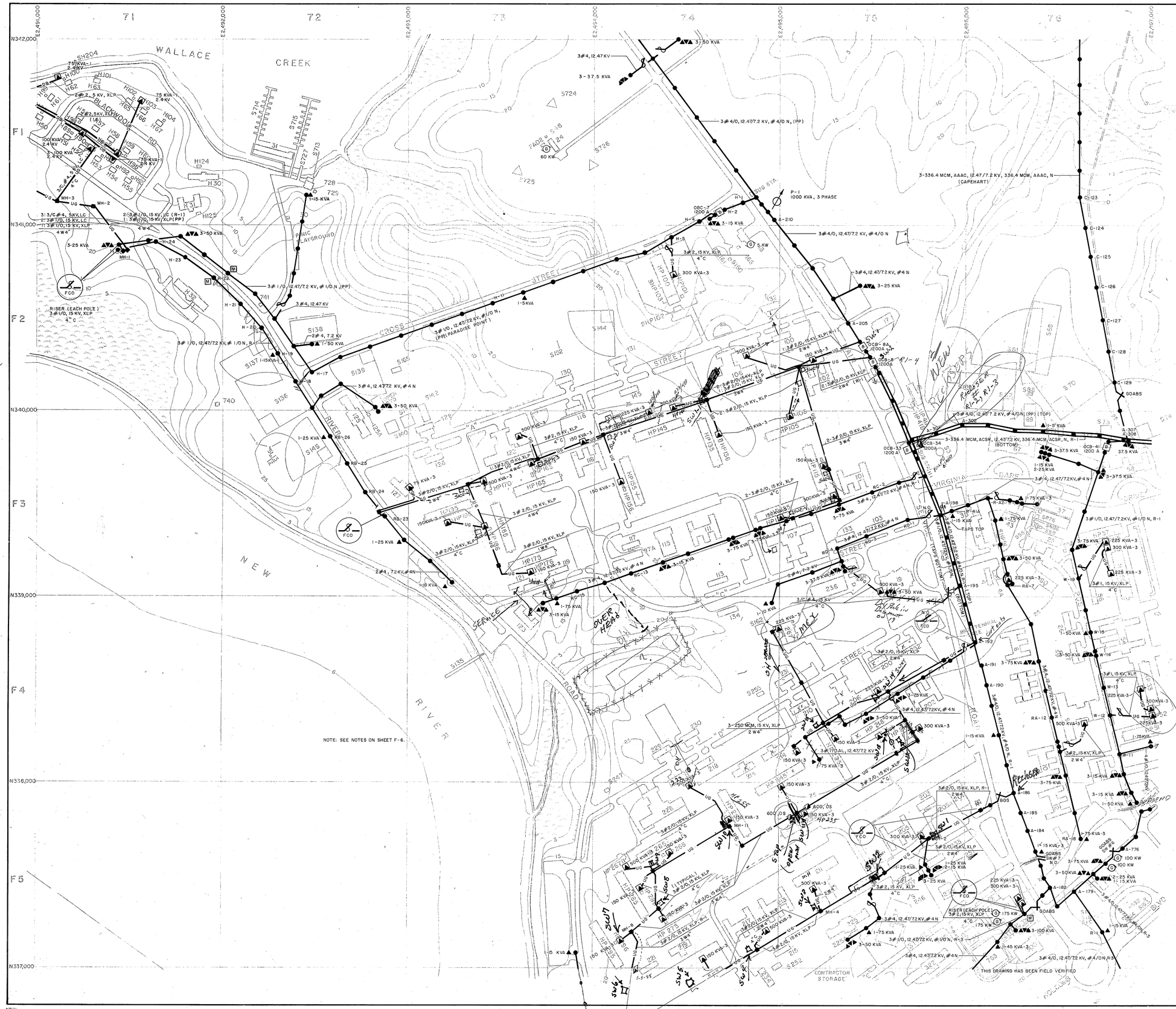
ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

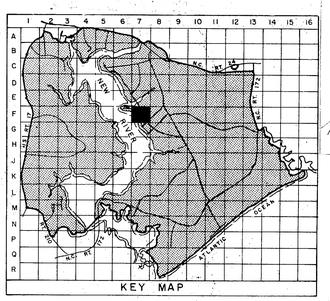
DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET F-6 OF 73

APPROVED / DATE

NAB-32

24 P.M.
12 O.H.
Not shown





LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source-USGS Maps)
- HELICOPTER LANDING ZONE
- SWAMP OR MARSH
- LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0 N — QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED. — I-B-10 POLE IDENTIFICATION NUMBER
- VERIFIED IN FIELD — 3-25 KVA — QUANTITY, CAPACITY (KVA) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)
- LOCATED IN FIELD — AIR SWITCH OPEN POSITION OR CLOSE POSITION
- LOCATED IN FIELD — 3#2, 15 KV, XLP — QUANTITY, SIZE, VOLTAGE (KV), INSULATION — UG or 2W4" DB — DUCT WAYS AND SIZE (INCHES) (DB-DIRECT BURIED) — MH-3 MANHOLE IDENTIFICATION NUMBER — UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED
- VERIFIED IN FIELD — 750 KVA-3 — CAPACITY KVA THREE PHASE OR SINGLE PHASE — PAD MOUNTED TRANSFORMER
- VERIFIED IN FIELD — 3-500 KVA — QUANTITY, REGULATOR SIZE (KVA) — VOLTAGE REGULATOR
- VERIFIED IN FIELD — 200 KW — CAPACITY KILOWATTS — GENERATOR
- 1200 A — RATING AMPS — CIRCUIT BREAKER
- METER
- VERIFIED IN FIELD — 600 A OS — TYPE - OIL SWITCH, RATING AMPS — PAD MOUNTED SWITCH

SW-1 SW-2 SW-3 SW-4 SW-5 PAGE G-7 SW-6 " G-7 SW-7 SW-8 SW-9 SW-10 SW-11 SW-12 SW-13 SW-14 SW-15

NORTH

0 200 400 600 800
GRAPHIC SCALE IN FEET

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DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET F-7 OF 73

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SEE PAGE G7

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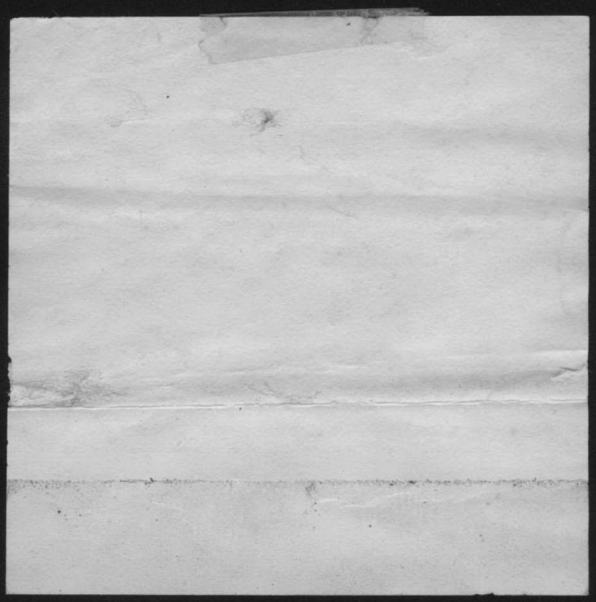

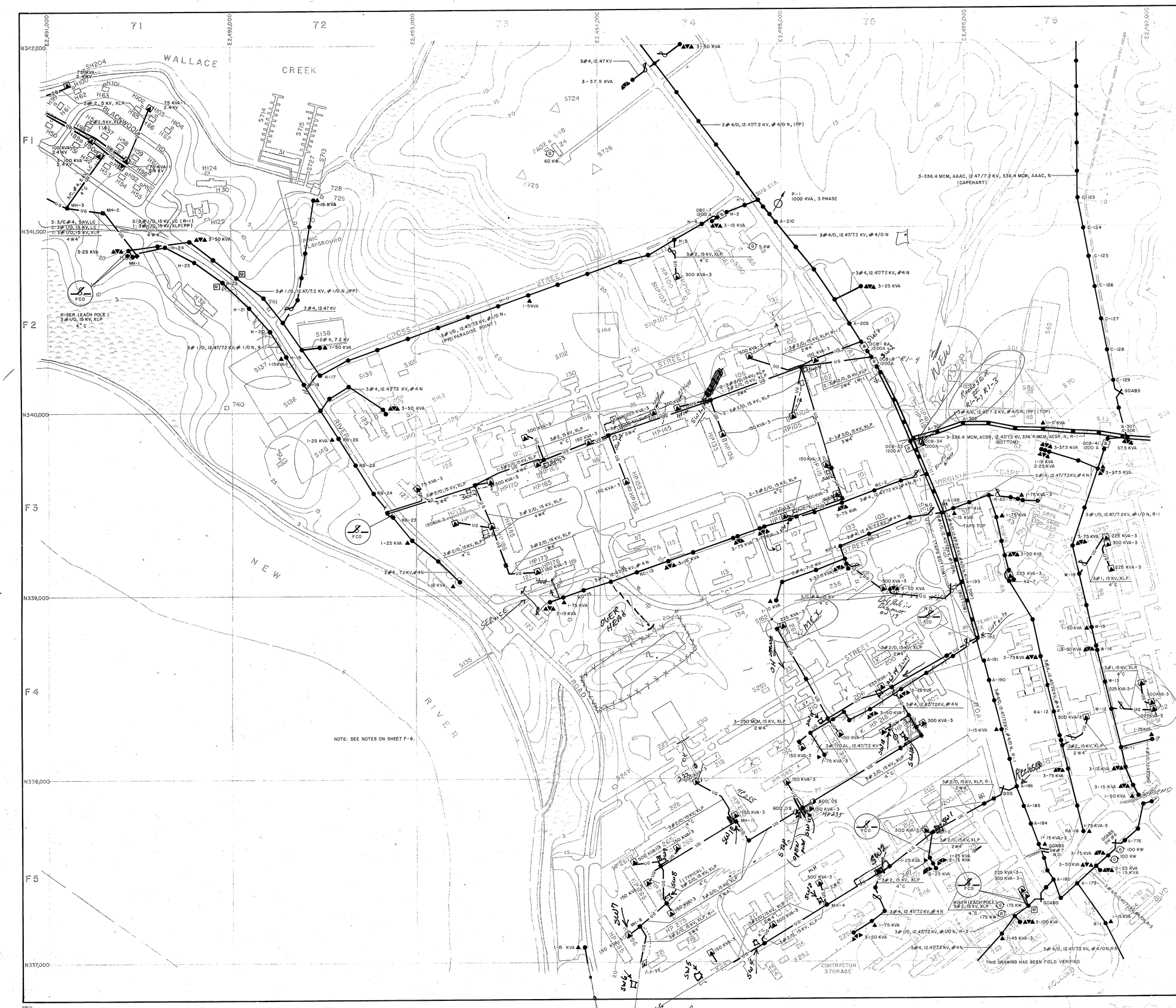

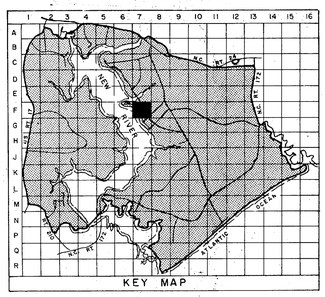

LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source-USGS Maps)
- HELICOPTER LANDING ZONE
- SWAMP OR MARSH
- LOCATED IN FIELD — 3 # 1/0, 12.47/7.2 KV, # 1/0 N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED)) — I-B-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)
- LOCATED IN FIELD — AIR SWITCH OPEN POSITION OR CLOSE POSITION
- LOCATED IN FIELD — 3 # 2, 15 KV, XLP (QUANTITY, SIZE, VOLTAGE (KV), INSULATION) — MH-3 UG or DB 2 W 4" (MANHOLE IDENTIFICATION NUMBER; DUCT WAYS AND SIZE (INCHES) (DB-DIRECT BURIED)) — UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED
- VERIFIED IN FIELD — 750 KVA-3 (CAPACITY KVA THREE PHASE OR SINGLE PHASE) — PAD MOUNTED TRANSFORMER
- VERIFIED IN FIELD — 3-500 KVA (QUANTITY, REGULATOR SIZE (KVA)) — VOLTAGE REGULATOR
- VERIFIED IN FIELD — G 200 KW (CAPACITY KILOWATTS) — GENERATOR
- VERIFIED IN FIELD — B 1200 A (RATING AMPS) — CIRCUIT BREAKER
- M — METER
- VERIFIED IN FIELD — 600 A OS (TYPE - OIL SWITCH; RATING AMPS) — PAD MOUNTED SWITCH

SW-1 SW-2 SW-3 SW-4 SW-5 PAGE G-7 SW-6 " G-7 SW-7 SW-8 SW-9 SW-10 SW-11 SW-12 SW-13 SW-14 SW-15

NORTH

0 200 400 600 800
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MARINE CORPS BASE
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ELECTRICAL DISTRIBUTION
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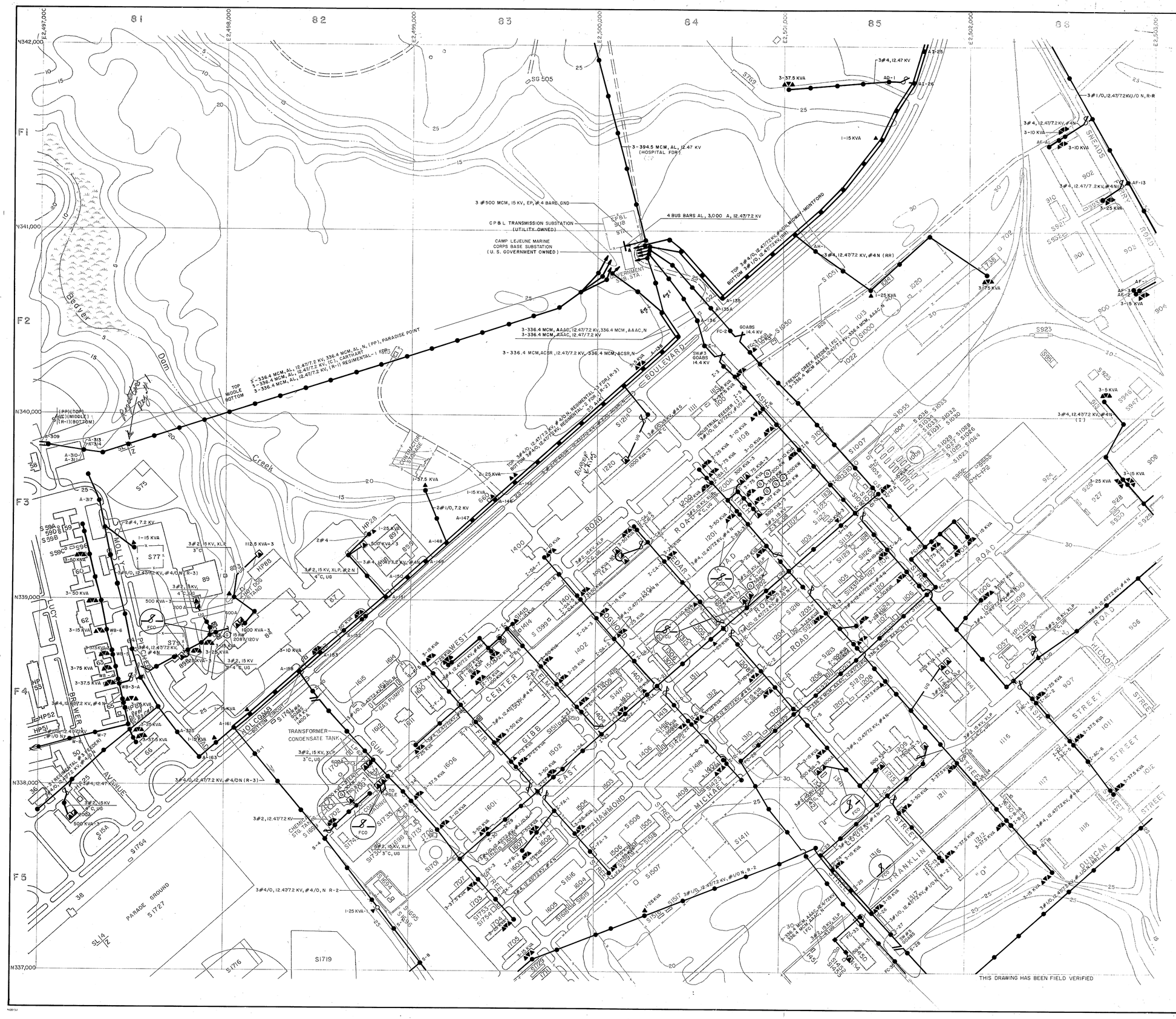
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BOULEVARD
ROAD
STREET
AVENUE
CENTER
WEST
EAST
GIBB
MICHAEL
FRANKLIN
HAMMOND
HOLLOWAY
LUCY
PARADE GROUND
CPBL TRANSMISSION SUBSTATION (UTILITY OWNED)
CAMP LEJEUNE MARINE CORPS BASE SUBSTATION (U.S. GOVERNMENT OWNED)
4 BUS BARS AL, 3,000 A, 12.47/7.2 KV
3-394.5 MCM, AL, 12.47 KV (HOSPITAL FDR)
3 #500 MCM, 15 KV, EP, #4 BARE GND
3-336.4 MCM, AAAC, 12.47/7.2 KV, 336.4 MCM, AAAC, N
3-336.4 MCM, AAAC, 12.47/7.2 KV
3-336.4 MCM, ACSR, 12.47/7.2 KV, 336.4 MCM, ACSR, N
TRANSFORMER CONDENSATE TANK
KEY MAP
LEGEND
BUILDINGS AND STRUCTURES
ROADS AND HIGHWAYS
ROADS (Unpaved)
FENCE
5' CONTOUR (Source - USGS Maps)
HELICOPTER LANDING ZONE
SWAMP OR MARSH
OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
OVERHEAD DISTRIBUTION TRANSFORMER
FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N.O.)
AIR SWITCH OPEN POSITION OR CLOSED POSITION
UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED.
PAD MOUNTED TRANSFORMER
PAD MOUNTED SWITCH
GENERATOR
METER
NORTH
GRAPHIC SCALE IN FEET
NO. DESCRIPTION OF REVISION DATE INT.
DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA
ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS
DATE 31 JULY 84
SCALE: GRAPHIC
SHEET F-8 OF 73
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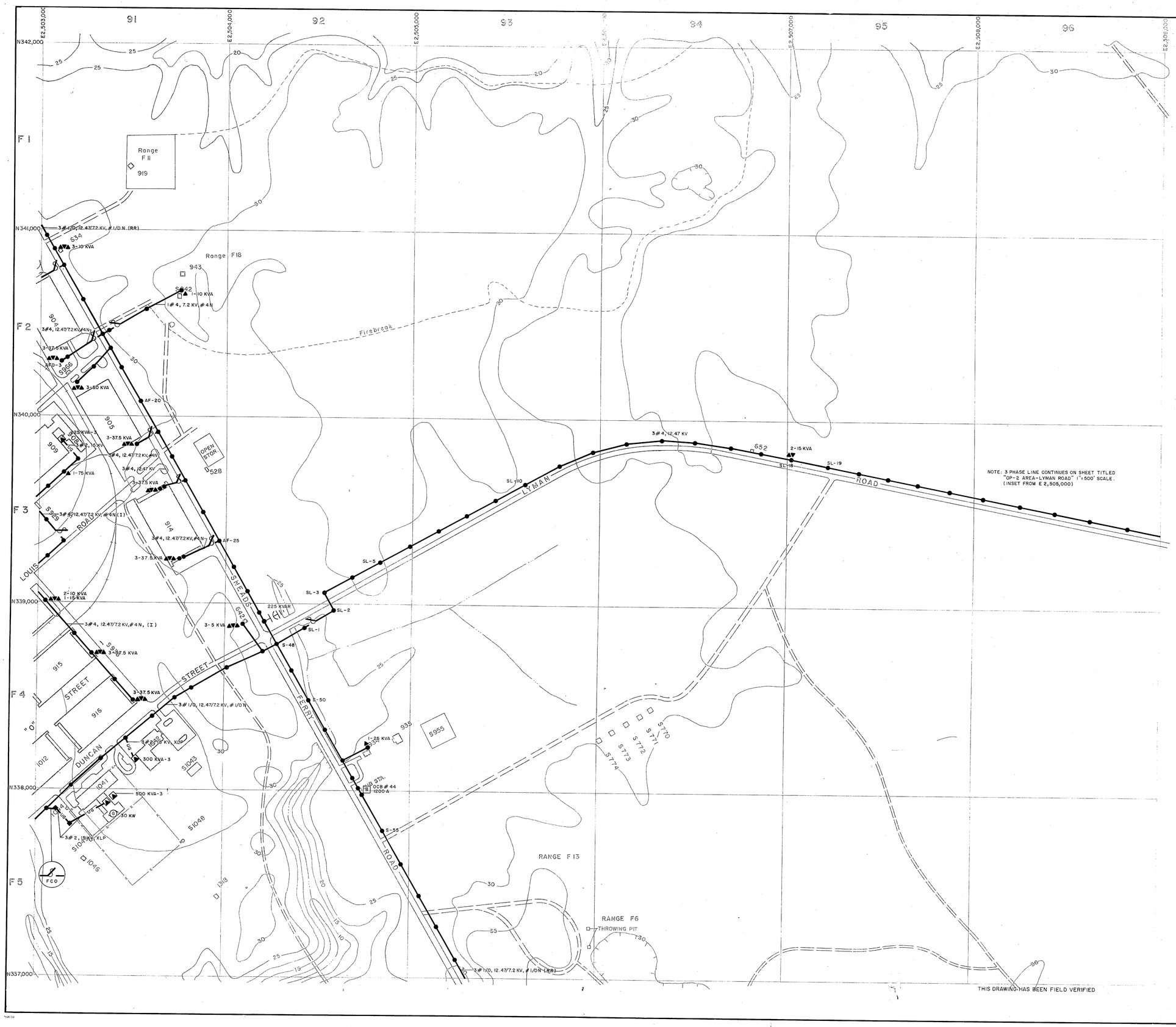
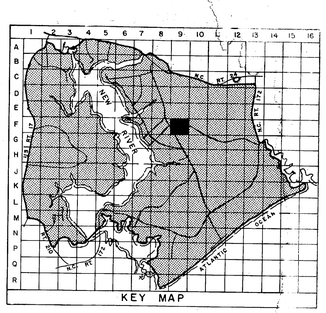




LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source—USGS Maps
- LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL) UNLESS NOTED) — 1-B-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORM
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)
- LOCATED IN FIELD — 3#2, 15 KV, XLP (QUANTITY, SIZE, VOLTAGE (KV), INSULATION) — MH-3 (MANHOLE IDENTIFICATION NUMBER) — UG DB 2 W 4" (DUCT WAYS AND SIZE (INCHES) (DB-DIRECT BURIED)) — UNDERGROUND PRIMARY LINE, 3 PHASE UNLESS SINGLE PHASE NOTED
- VERIFIED IN FIELD — 750 KVA-3 (CAPACITY KVA THREE PHASE OR SINGLE PHASE) — PAD MOUNTED TRANSFORMER
- VERIFIED IN FIELD — G — 200 KW (CAPACITY KILOWATTS) — GENERATOR
- VERIFIED IN FIELD — B — 1200 A (RATING AMPS) — CIRCUIT BREAKER

NORTH

0 200 400 600 800

GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INIT.

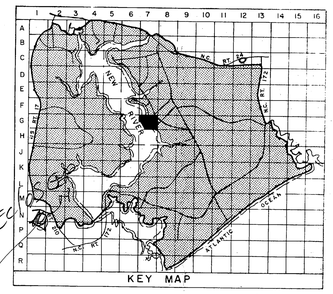
DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET F-9 OF 73

APPROVED / DATE

4 pm
35 OH



LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- 5' CONTOUR (Source – USGS Maps)
- SL16/12 HELICOPTER LANDING ZONE
- 3#1/0, 12.47/72KV, #1/0 N — QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(IN-NEUTRAL) (MATERIAL COPPER UNLESS NOTED); LOCATED IN FIELD; I-8-10 POLE IDENTIFICATION NUMBER — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED
- 3-25 KVA — QUANTITY, CAPACITY (KVA); VERIFIED IN FIELD — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)
- LOCATED IN FIELD — AIR SWITCH OPEN POSITION OR CLOSE POSITION
- 3#2, 15KV, XLP — QUANTITY, SIZE, VOLTAGE (KV), INSULATION; LOCATED IN FIELD; MH-3 UG DB 2W 4" — MANHOLE IDENTIFICATION NUMBER; DUCT WAYS AND SIZE (INCHES) (DB - DIRECT BURIED) — UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED
- 750 KVA-3 — CAPACITY KVA THREE PHASE OR SINGLE PHASE; VERIFIED IN FIELD — PAD MOUNTED TRANSFORMER
- 200 KW — CAPACITY KILOWATTS; VERIFIED IN FIELD — GENERATOR

SW-5
SW-6

NORTH

0 200 400 600 800
GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84	SCALE: GRAPHIC	SHEET G-7 OF 73
APPROVED / DATE		

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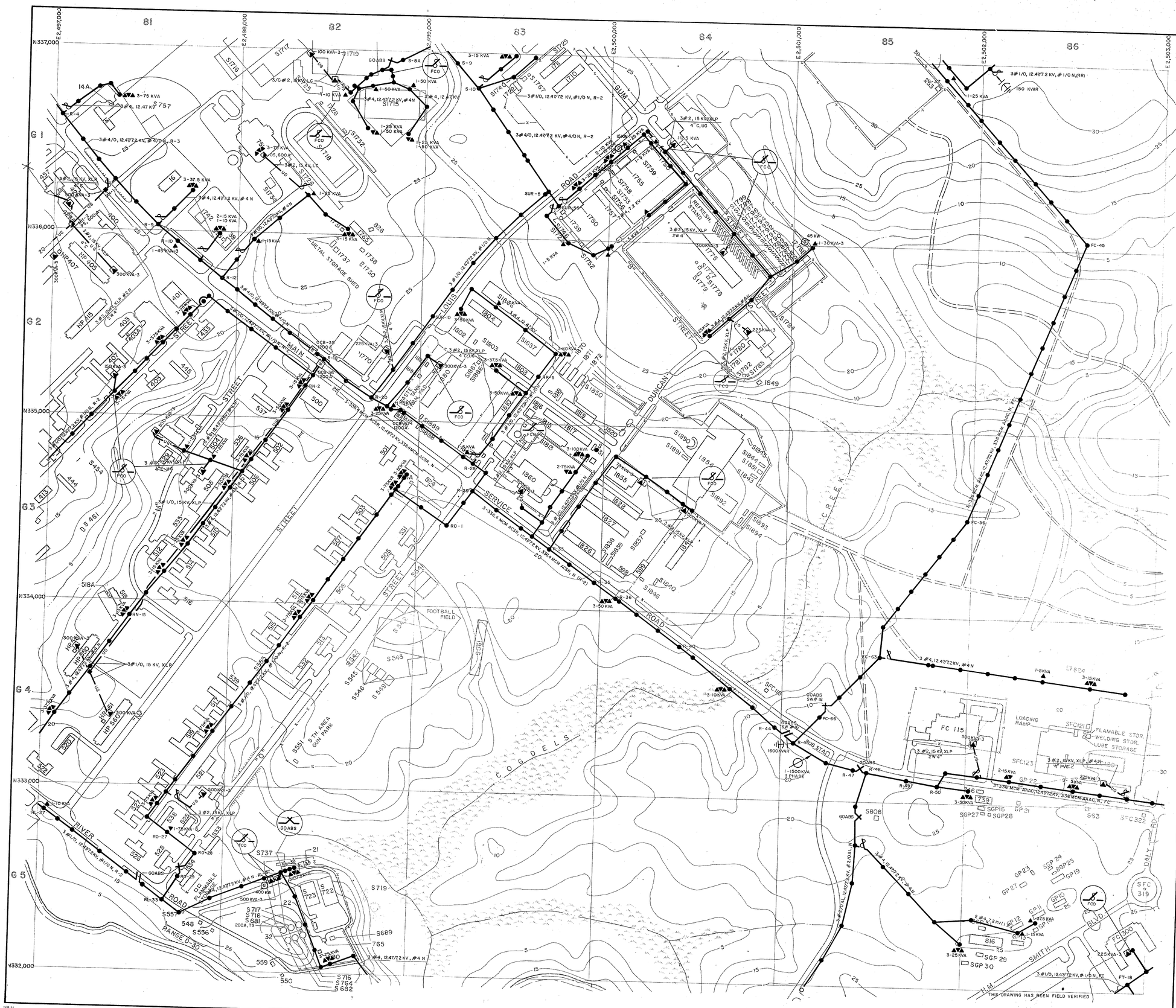
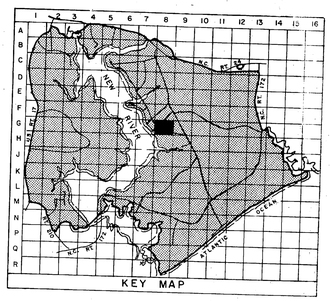




LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source – USGS Maps)
- SWAMP OR MARSH
- LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0N (QUANTITY, SIZE, VOLTAGE (KV - KILOVOLT) N - NEUTRAL) (MATERIAL COPPER UNLESS) — I-8-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA — OVERHEAD DISTRIBUTION TRANSFORMER (QUANTITY, CAPACITY (KVA))
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N.O.)
- LOCATED IN FIELD — AIR SWITCH OPEN POSITION OR CLOSE POSITION
- LOCATED IN FIELD — 1600 KVAR (TOTAL CAPACITY) — CAPACITOR BANK
- LOCATED IN FIELD — 3#2, 15 KV, XLP (QUANTITY, SIZE, VOLTAGE (KV), INSULATION) — MH-3 (MANHOLE IDENTIFICATION NUMBER) — UG DB 2 W 4" (DUCT MATL AND SIZE (INCHES) (DB - DIRECT BURIED)) — UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED
- VERIFIED IN FIELD — 750 KVA-3 (CAPACITY KVA THREE PHASE OR SINGLE PHASE) — PAD MOUNTED TRANSFORMER
- VERIFIED IN FIELD — TS (TRANSFER SWITCH) — PAD MOUNTED SWITCH
- VERIFIED IN FIELD — 3-500 KVA (QUANTITY, REGULATOR SIZE (KVA)) — VOLTAGE REGULATOR
- VERIFIED IN FIELD — 200 KW (CAPACITY KILOWATTS) — GENERATOR
- VERIFIED IN FIELD — 1200 A (RATING AMPS) — CIRCUIT BREAKER

NORTH

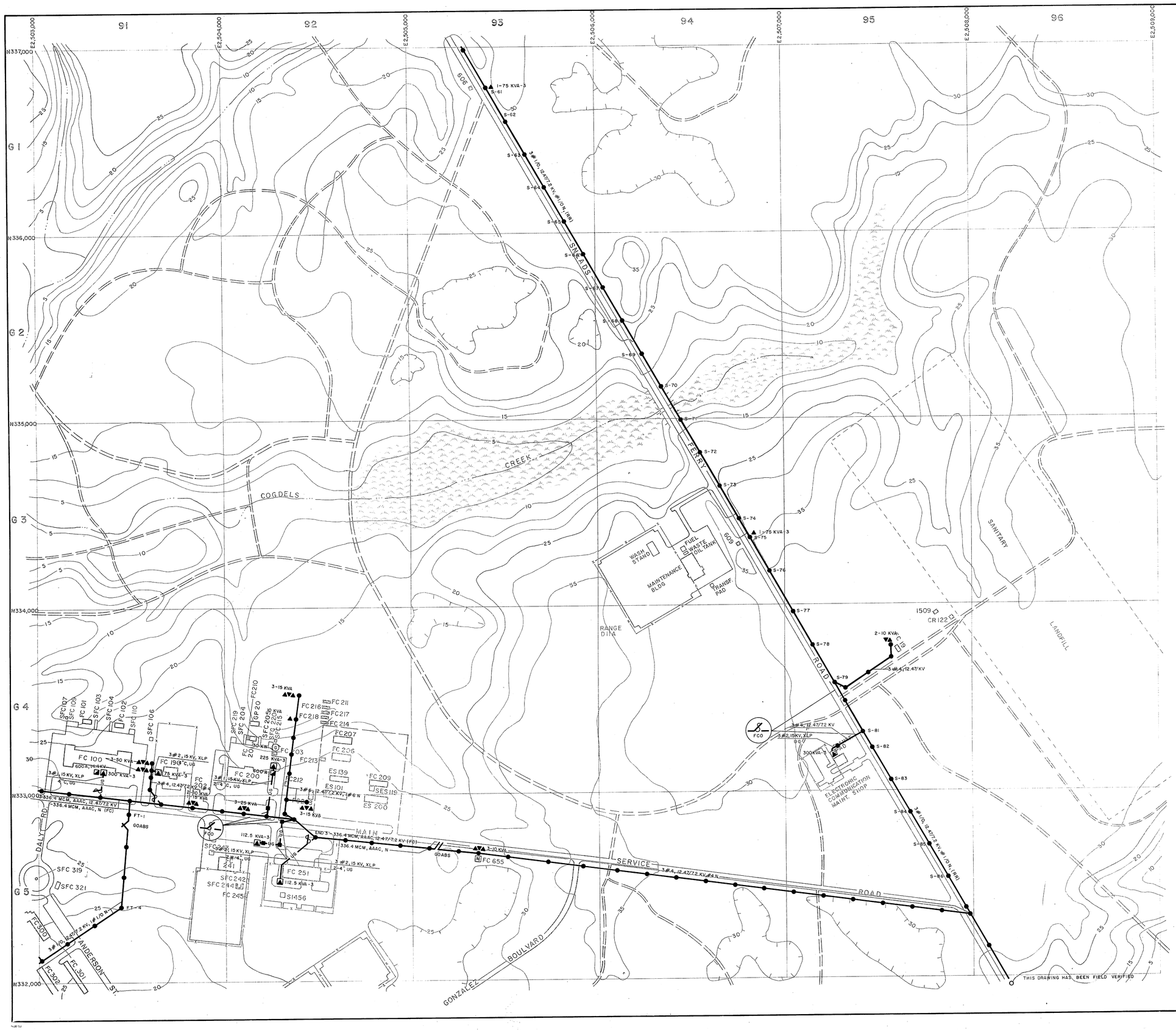
0 200 400 600 800
GRAPHIC SCALE IN FEET

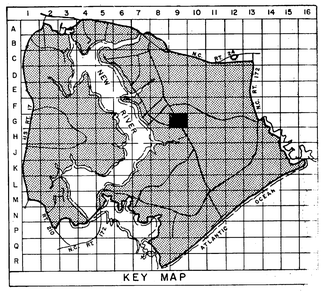
NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84	SCALE: GRAPHIC	SHEET G-8 OF 73
APPROVED / DATE		





LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source – USGS Maps)
- SWAMP OR MARSH
- LOCATED IN FIELD – 3#1/0, 12.47/7.2 KV, 1#6 N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED); I-B-10 POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE. UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD – 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)
- LOCATED IN FIELD — AIR SWITCH OPEN POSITION OR CLOSE POSITION
- LOCATED IN FIELD – 3#2, 15 KV, XLP (QUANTITY, SIZE, VOLTAGE (KV), INSULATION); MH-3 (MANHOLE IDENTIFICATION NUMBER); UG DB 2 W 4" (DUCT WAYS AND SIZE (INCHES) (DB – DIRECT BURIED)) — UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED
- VERIFIED IN FIELD – 750 KVA-3 (CAPACITY KVA THREE PHASE OR SINGLE PHASE) — PAD MOUNTED TRANSFORMER
- VERIFIED IN FIELD – OS (TYPE) — PAD MOUNTED SWITCH
- VERIFIED IN FIELD – 200 KW (CAPACITY KILOWATTS) — GENERATOR
- M — METER

NORTH

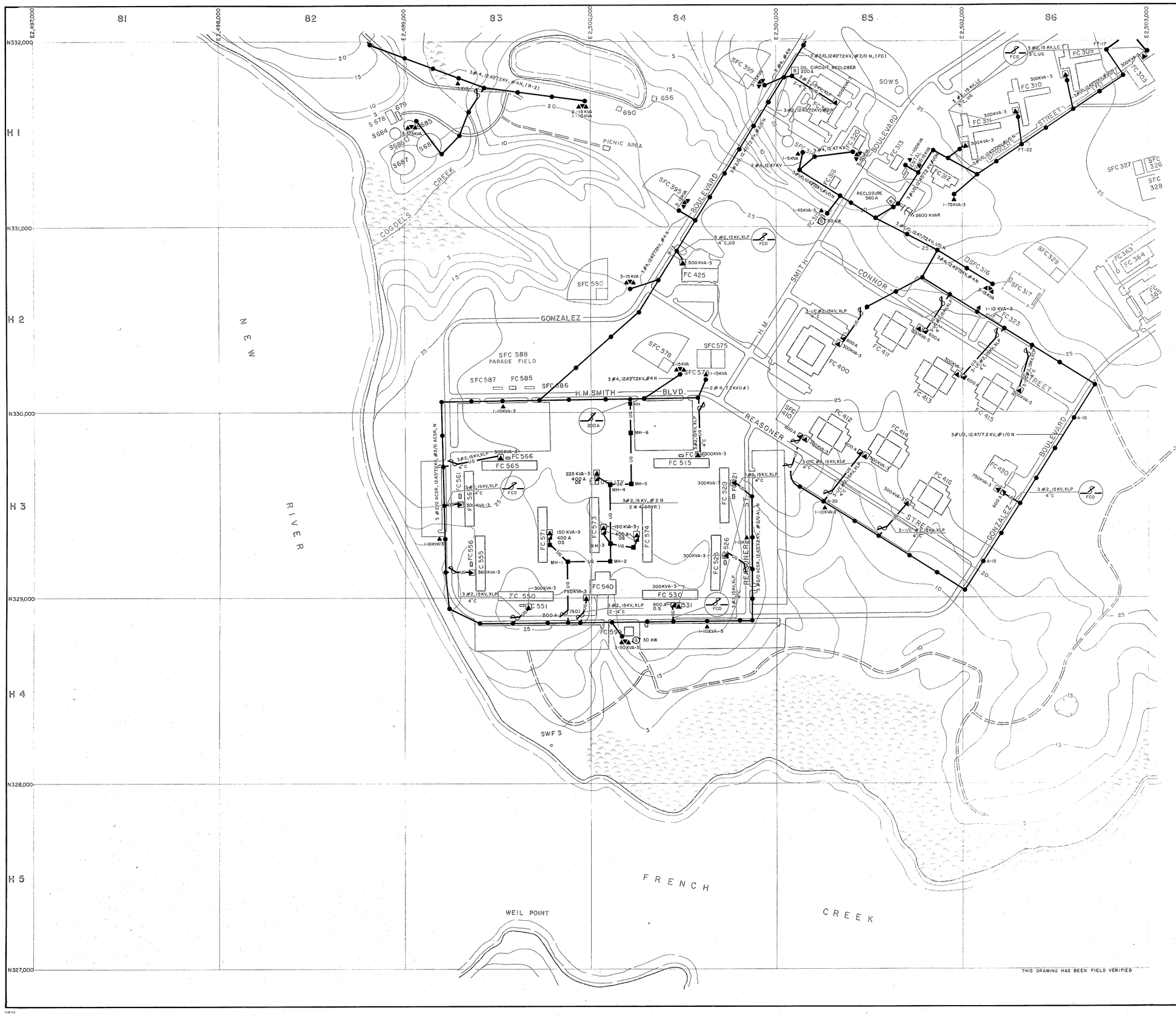
0 200 400 600 800
GRAPHIC SCALE IN FEET

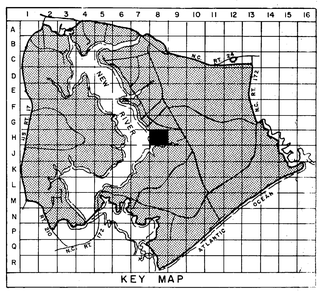
NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84	SCALE: GRAPHIC	SHEET G-9 OF 73
APPROVED / DATE		





LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source – USGS Maps)
- SWAMP OR MARSH
- LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0 N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT) (N-NEUTRAL) (MATERIAL COPPER UNLESS ...) — I-8-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N.O.)
- LOCATED IN FIELD — 1600 KVAR (TOTAL CAPACITY) — CAPACITOR BANK
- LOCATED IN FIELD — 3#2, 15KV, XLP (QUANTITY, SIZE, VOLTAGE (KV), INSULATION) — UG or DB 2 W 4" (DUCT WAYS AND SIZE (INCHES) (DB - DIRECT BURIED)) — MH-3 (MANHOLE IDENTIFICATION NUMBER) — UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED
- VERIFIED IN FIELD — 750 KVA-3 (CAPACITY KVA THREE PHASE OR SINGLE PHASE) — PAD MOUNTED TRANSFORMER
- VERIFIED IN FIELD — OS (TYPE) — PAD MOUNTED SWITCH
- VERIFIED IN FIELD — 1200 A (RATING AMPS) — CIRCUIT BREAKER
- VERIFIED IN FIELD — 200 KW (CAPACITY KILOWATTS) — GENERATOR

NORTH

0 200 400 600 800
GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET H-8 OF 73

APPROVED / DATE

26 Pm
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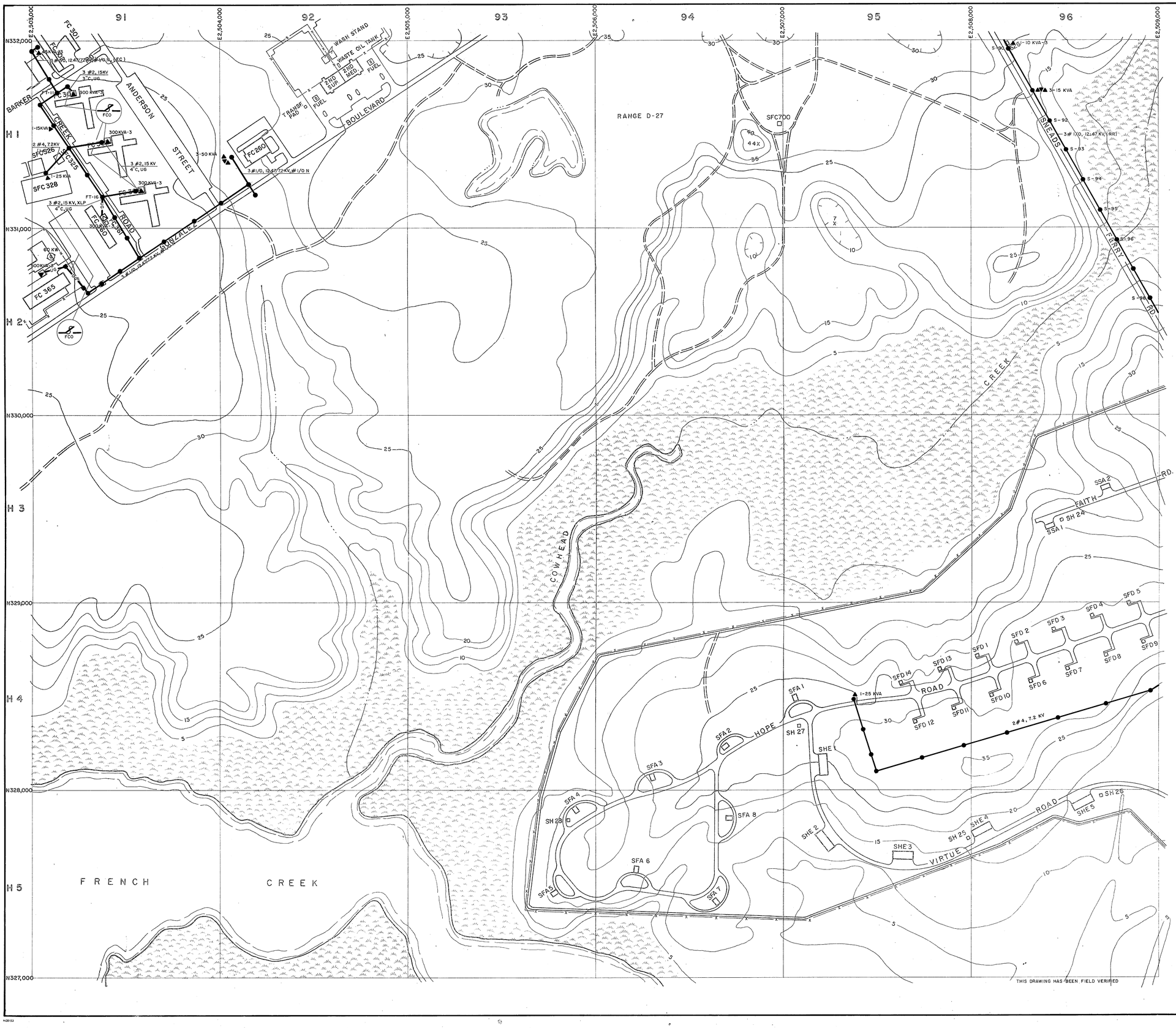

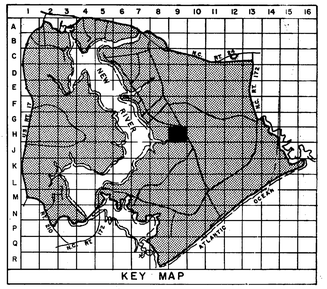

LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source-USGS Maps)
- SWAMP OR MARSH
- LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0 N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT) (N-NEUTRAL) MATERIAL COPPER UNLESS NOTED); I-8-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)
- LOCATED IN FIELD — 3#2, 15 KV, XLP (QUANTITY, SIZE, VOLTAGE (KV), INSULATION); MH-3 UG 2"W 4" DB (DUCT WAYS AND SIZE (INCHES) (DB - DIRECT BURIED); MANHOLE IDENTIFICATION NUMBER) — UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED
- VERIFIED IN FIELD — 750 KVA-3 (CAPACITY KVA THREE PHASE OR SINGLE PHASE) — PAD MOUNTED TRANSFORMER
- VERIFIED IN FIELD — 200 KW (CAPACITY KILOWATTS) — GENERATOR

NORTH

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GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET H-9 OF 73

APPROVED / DATE

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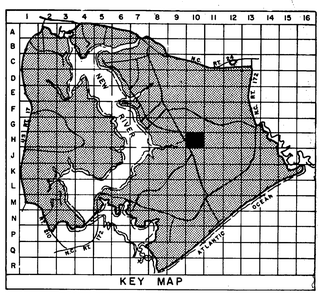

LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source-USGS Maps)
- SWAMP OR MARSH

LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0 N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLTIN-NEUTRAL) (MATERIAL COPPER UNLESS NOTED)) — I-B-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.

VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER

LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)

NORTH

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GRAPHIC SCALE IN FEET

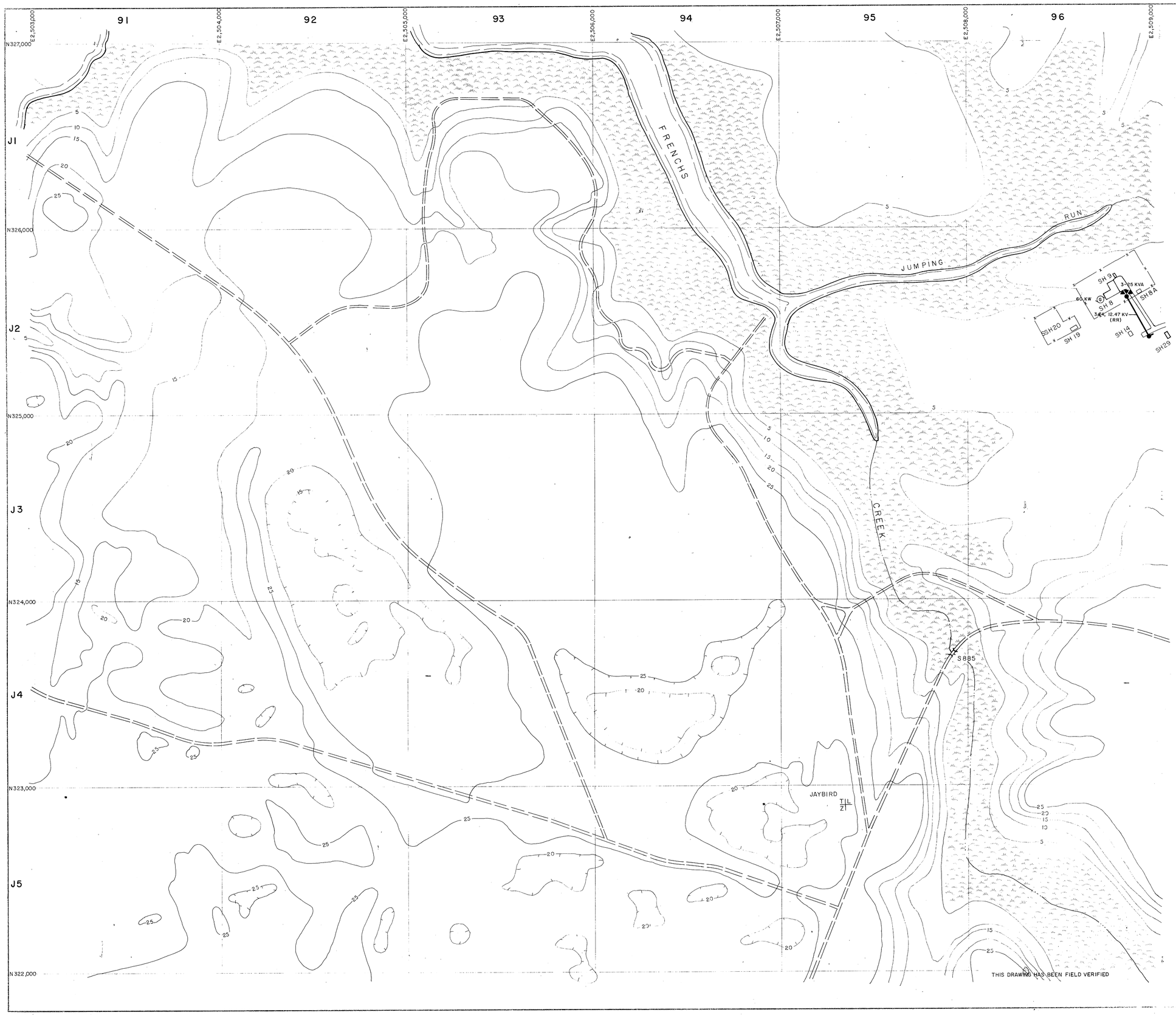
NO.	DESCRIPTION OF REVISION	DATE	INT.

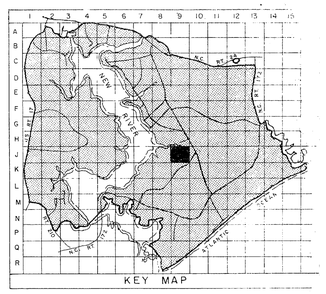
DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET H-10 OF 73

APPROVED / DATE





LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source-USGS Maps)
- SWAMP OR MARSH
- TIL / Z — TACTICAL LANDING ZONE
- LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0N — QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED) — I-8-10 — POLE IDENTIFICATION NUMBER — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA — QUANTITY, CAPACITY (KVA) — OVERHEAD DISTRIBUTION TRANSFORMER
- VERIFIED IN FIELD — G — 200 KW — CAPACITY KILOWATTS — GENERATOR

NORTH

0 200 400 600 800

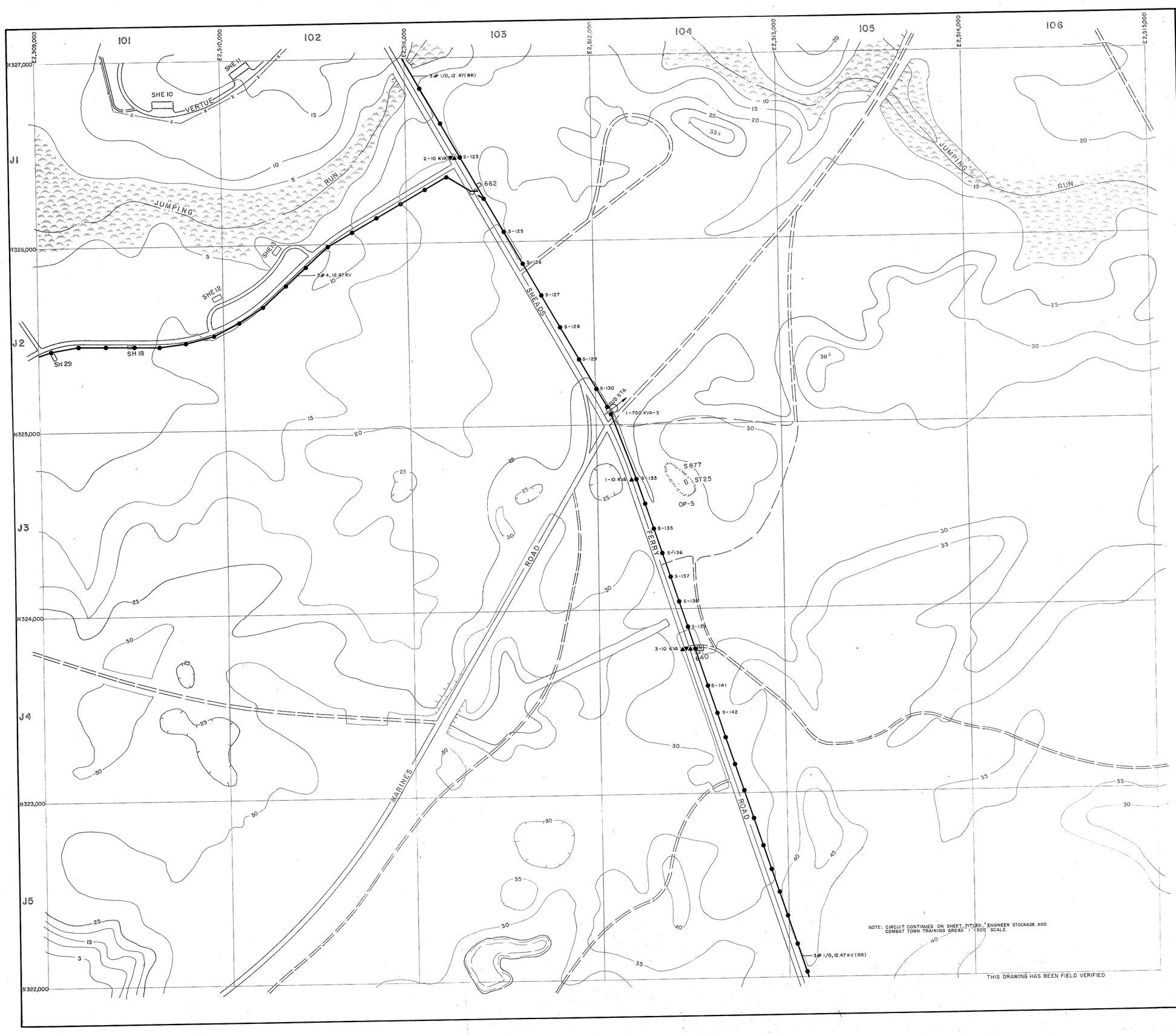
GRAPHIC SCALE IN FEET

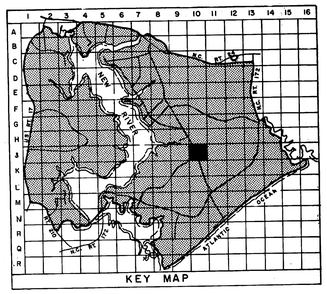
NO.	DESCRIPTION OF REVISION	DATE	BY

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | DRAWN | SHEET J-9 OF 73





LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source-USGS Maps)
- SWAMP OR MARSH
- LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED. (I-8-10 — POLE IDENTIFICATION NUMBER)
- VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N.O.)
- VERIFIED IN FIELD — 3-500 KVA (QUANTITY, REGULATOR SIZE (KVA)) — VOLTAGE REGULATOR
- VERIFIED IN FIELD — M — METER

NORTH

0 200 400 600 800
GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84	SCALE: GRAPHIC	SHEET J-10 OF 73
APPROVED / DATE		

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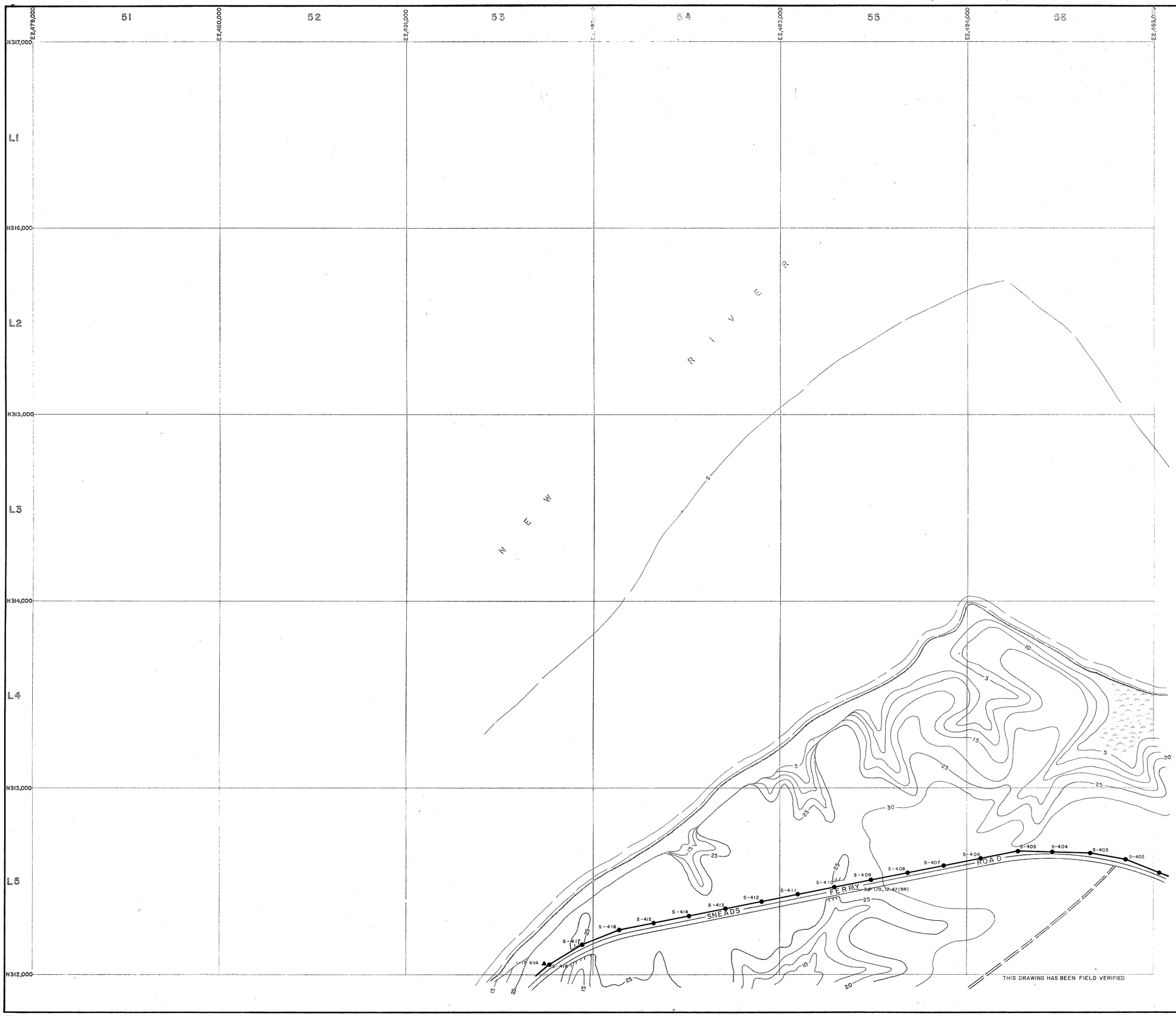

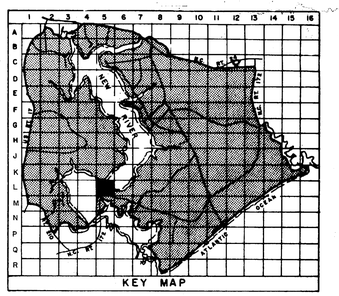

LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source – USGS Maps)
- SWAMP OR MARSH

LOCATED IN FIELD — QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED)
3#1/0, 12.47/7.2 KV, #1/0 N
I-8-10 — POLE IDENTIFICATION NUMBER
OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.

VERIFIED IN FIELD
3-25 KVA — QUANTITY, CAPACITY (KVA)
OVERHEAD DISTRIBUTION TRANSFORMER

NORTH

0 200 400 600 800
GRAPHIC SCALE IN FEET

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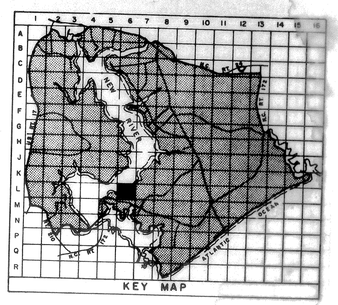
DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET L-5 OF 73

APPROVED / DATE

1 OH



LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- SWAMP OR MARSH

LOCATED IN FIELD — 3#1/0, 12.47/7.2KV, #1/0N (QUANTITY, SIZE, VOLTAGE (KV - KILOVOLTS) - NEUTRAL (N) MATERIAL COPPER UNLESS NOTED)

1-8-10 — POLE IDENTIFICATION NUMBER

OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.

NORTH

0 200 400 600 800

GRAPHIC SCALE IN FEET

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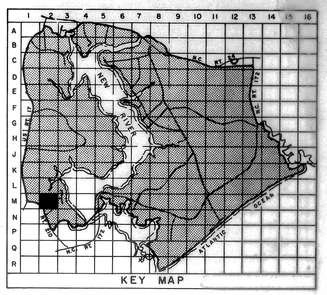
DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET L-6 OF 73

APPROVED / DATE



LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- HELICOPTER LANDING ZONE
- RESERVATION BOUNDARY
- SWAMP OR MARSH
- OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED. (LOCATED IN FIELD; 3 #1/0, 12.47/7.2 KV, #1/0 N — QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED); I-8-10 — POLE IDENTIFICATION NUMBER)
- OVERHEAD DISTRIBUTION TRANSFORMER (VERIFIED IN FIELD; 3-25 KVA — QUANTITY, CAPACITY (KVA))
- FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.) (LOCATED IN FIELD)
- CAPACITOR BANK (LOCATED IN FIELD; 1600 KVAR — TOTAL CAPACITY)
- UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED (LOCATED IN FIELD; 3 #2, 15 KV, XLP — QUANTITY, SIZE, VOLTAGE (KV), INSULATION; MH-3 UG OR DB — MANHOLE IDENTIFICATION NUMBER; 2 W 4" — DUCT WAYS AND SIZE (INCHES); DB - DIRECT BURIED)
- PAD MOUNTED TRANSFORMER (VERIFIED IN FIELD; 750 KVA-3 — CAPACITY KVA THREE PHASE OR SINGLE PHASE)
- METER

NORTH

0 200 400 600 800

GRAPHIC SCALE IN FEET

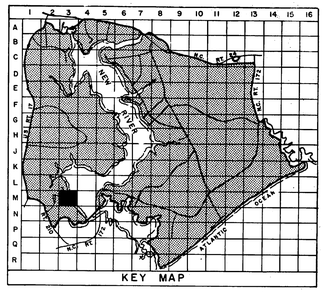
NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET M-2 OF 73

APPROVED / DATE



LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source-USGS Maps)
- SL19 TZ — HELICOPTER LANDING ZONE
- SWAMP OR MARSH
- LOCATED IN FIELD — 3Ø1/0, 12.47/7.2 KV, Ø1/0 N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED)); I-8-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)
- LOCATED IN FIELD — 3Ø2, 15 KV, XLP (QUANTITY, SIZE, VOLTAGE (KV), INSULATION); UG 6" 2W4" DB (DUCT WAYS AND SIZE (INCHES) (DB - DIRECT BURIED)); MH-3 (MANHOLE IDENTIFICATION NUMBER) — UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED
- VERIFIED IN FIELD — G 200 KW (CAPACITY KILOWATTS) — GENERATOR
- M — METER

NORTH

0 200 400 600 800

GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

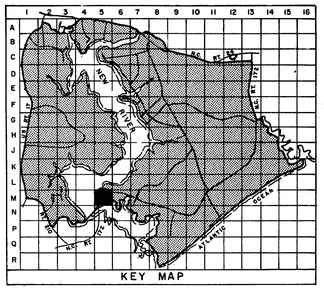
ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84	SCALE: GRAPHIC	SHEET M-3 OF 73
APPROVED / DATE		

THIS DRAWING HAS BEEN FIELD VERIFIED

N38153

1 of 4



LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source-USGS Maps)
- SWAMP OR MARSH
- LOCATED IN FIELD — 3#1/0, 12.47/72 KV, #1/0N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED)) — I-B-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — AIR SWITCH OPEN POSITION OR CLOSE POSITION

NORTH

0 200 400 600 800

GRAPHIC SCALE IN FEET

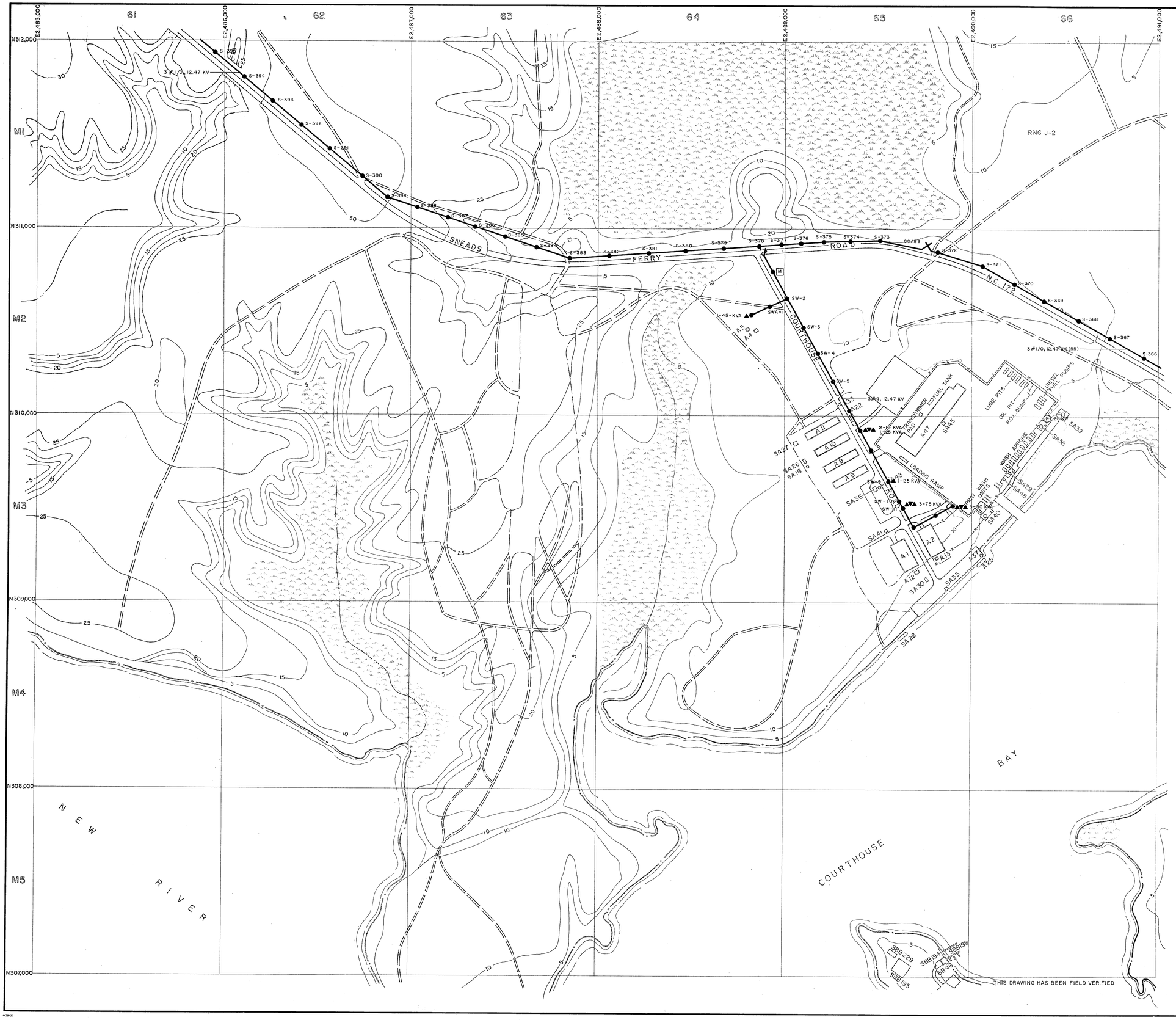
NO.	DESCRIPTION OF REVISION	DATE	INT.

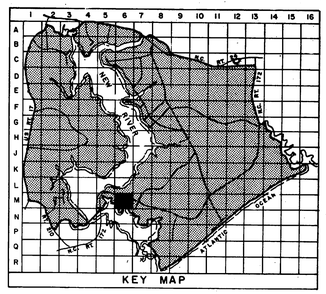
DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84	SCALE: GRAPHIC	SHEET M-5 OF 73
APPROVED / DATE		

2 of H





LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source-USGS Maps)
- RESERVATION BOUNDARY
- SWAMP OR MARSH
- LOCATED IN FIELD — 3#1/0, 12.47/72 KV, #1/0 N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED)); I-8-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)
- LOCATED IN FIELD — AIR SWITCH OPEN POSITION OR CLOSE POSITION
- M — METER
- VERIFIED IN FIELD — G — 200 KW (CAPACITY KILOWATTS) — GENERATOR

NORTH

0 200 400 600 800

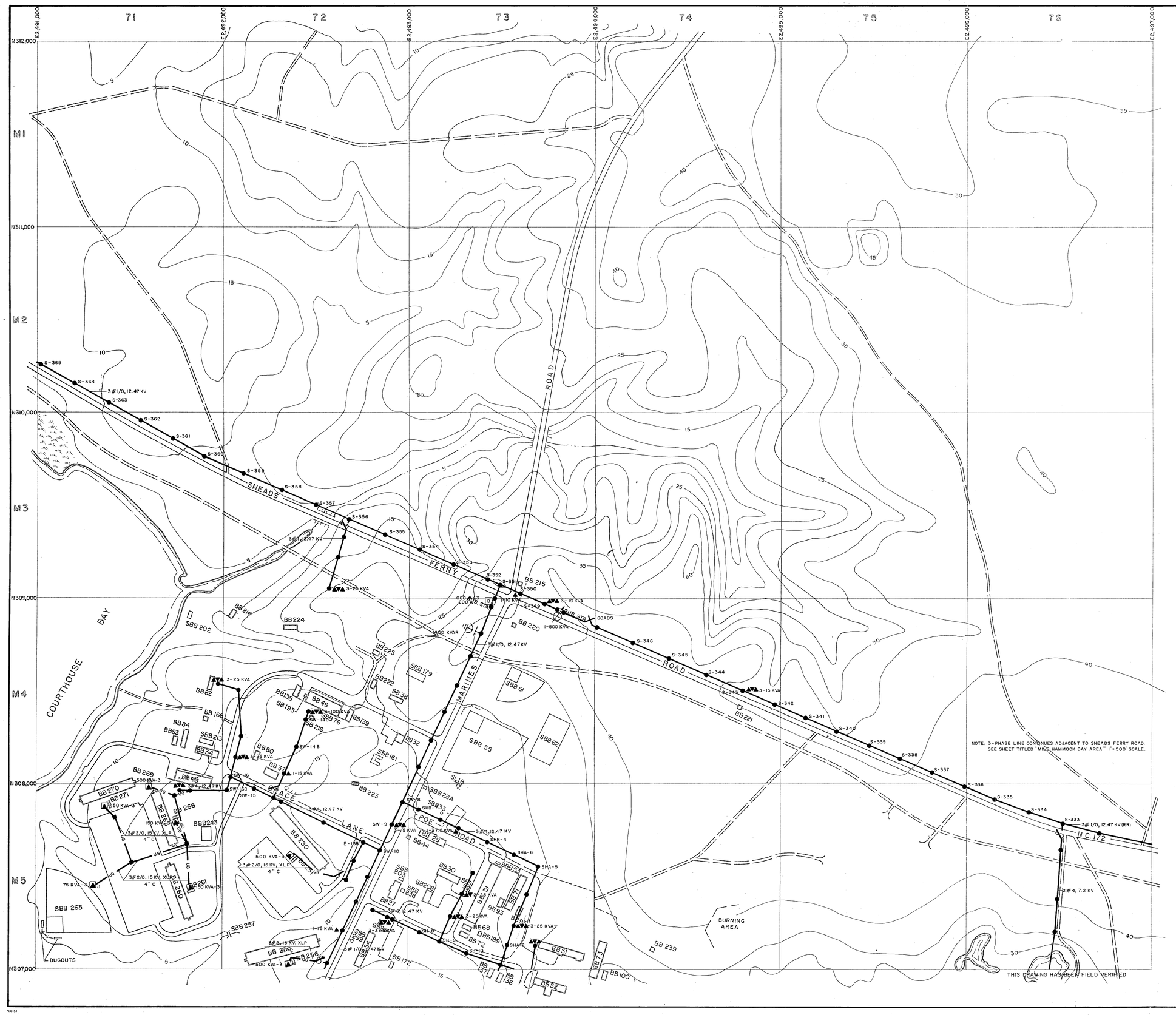
GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84	SCALE: GRAPHIC	SHEET M-6 OF 73
APPROVED / DATE		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N309,000
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N307,000
M1
M2
M3
M4
M5
SNEADS FERRY ROAD
COURTHOUSE BAY
MARINES
GRACE LANE
POE ROAD
N.C. 172
BURNING AREA
DUGOUTS
SUB STA
3-26 KVA
3-10 KVA
1-500 KVA
3-15 KVA
3-25 KVA
3-100 KVA
1-15 KVA
150 KVA-3
500 KVA-3
75 KVA-3
3-25 KVA-7
3-25 KVA-2
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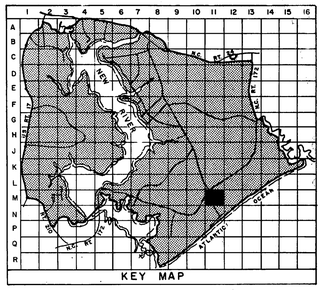

LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source – USGS Maps)
- TACTICAL LANDING ZONE
- SWAMP OR MARSH
- OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED. (LOCATED IN FIELD; 3#1/0, 12.47/7.2 KV, #1/0N — QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED); I-B-10 — POLE IDENTIFICATION NUMBER)
- FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.) (LOCATED IN FIELD)
- CIRCUIT BREAKER (VERIFIED IN FIELD; 200 A — RATING AMPS)
- CAPACITOR BANK (LOCATED IN FIELD; 1600 KVAR — TOTAL CAPACITY)

NORTH

0 200 400 600 800

GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET M-11 OF 73

APPROVED / DATE

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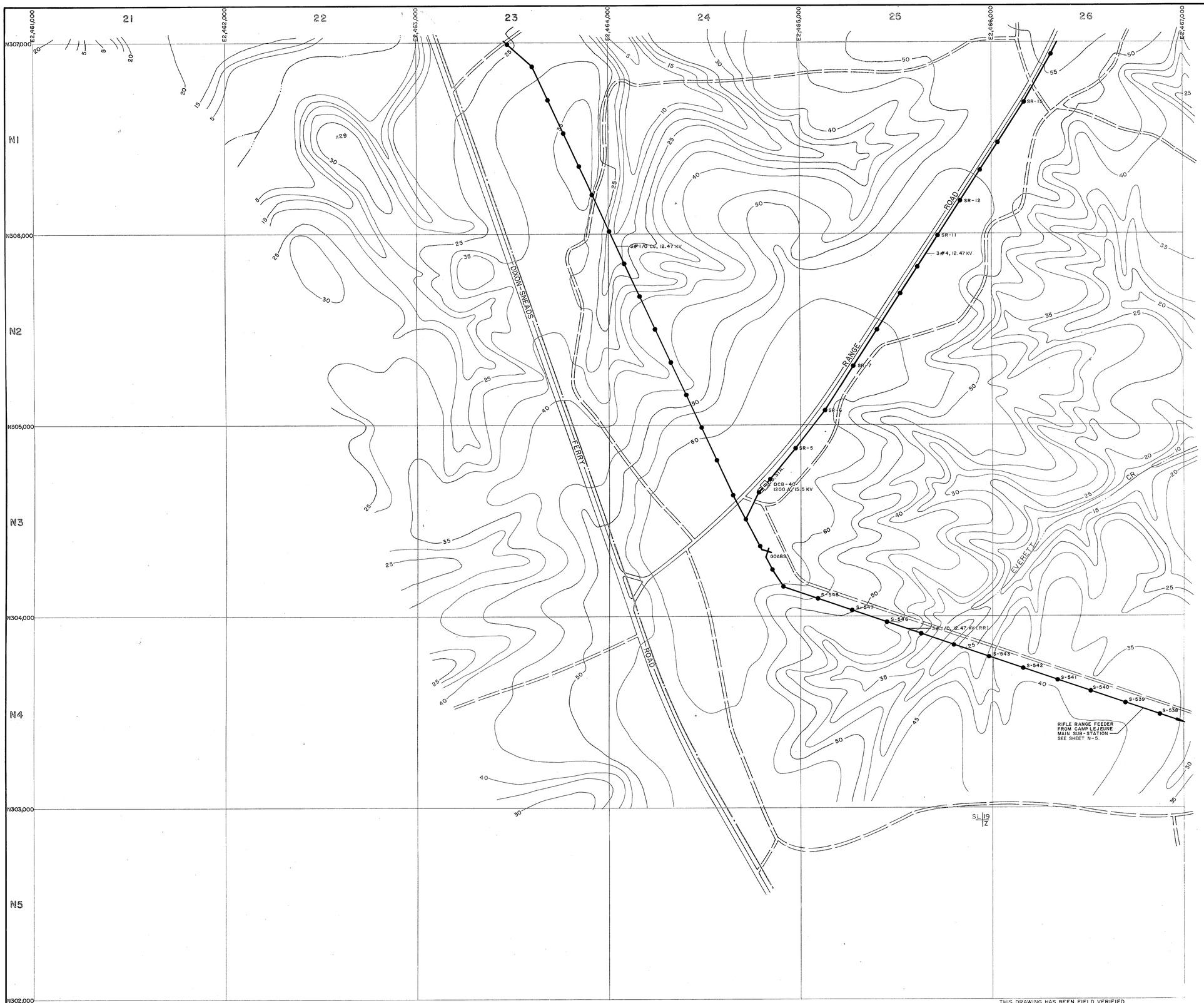
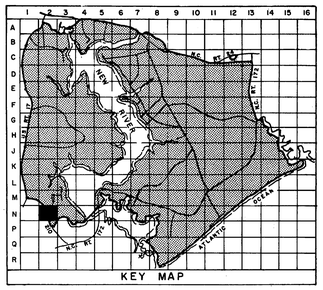




LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- SL 19/Z — HELICOPTER LANDING ZONE
- RESERVATION BOUNDARY
- LOCATED IN FIELD — 3#1/0, 12.47 KV, #1/0N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED)) — I-8-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- LOCATED IN FIELD — AIR SWITCH OPEN POSITION OR CLOSE POSITION
- VERIFIED IN FIELD — B 1200 A (RATING AMPS) — CIRCUIT BREAKER

NORTH

0 200 400 600 800

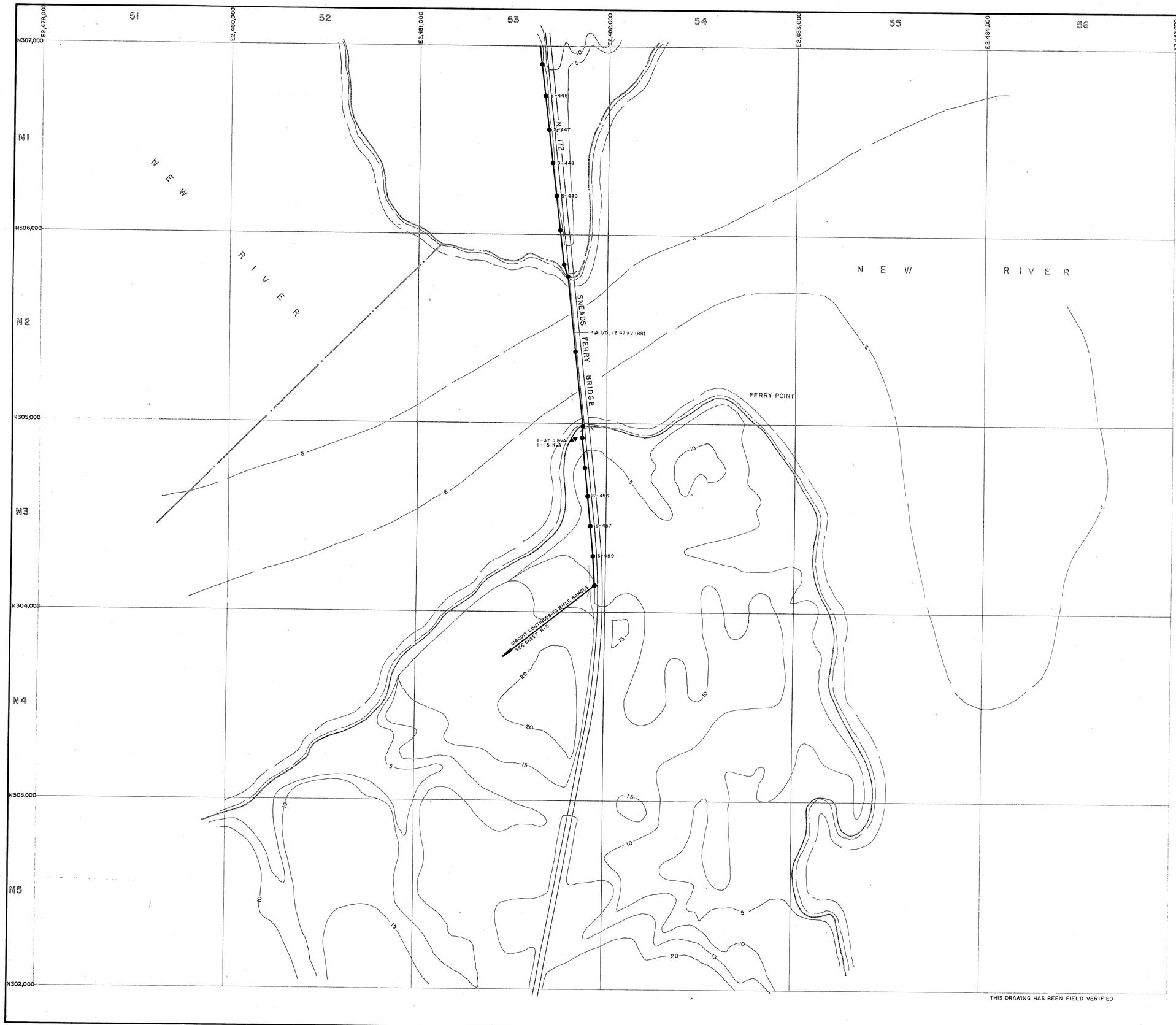
GRAPHIC SCALE IN FEET

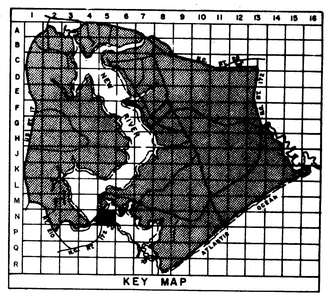
NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84	SCALE: GRAPHIC	SHEET N-2 OF 73
APPROVED / DATE		





LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0N (QUANTITY, SIZE, VOLTAGE (KV- KILOVOLT) (N- NEUTRAL) (MATERIAL, COPPER UNLESS NOTED)) — E-8-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER

NORTH

0 200 400 600 800

GRAPHIC SCALE IN FEET

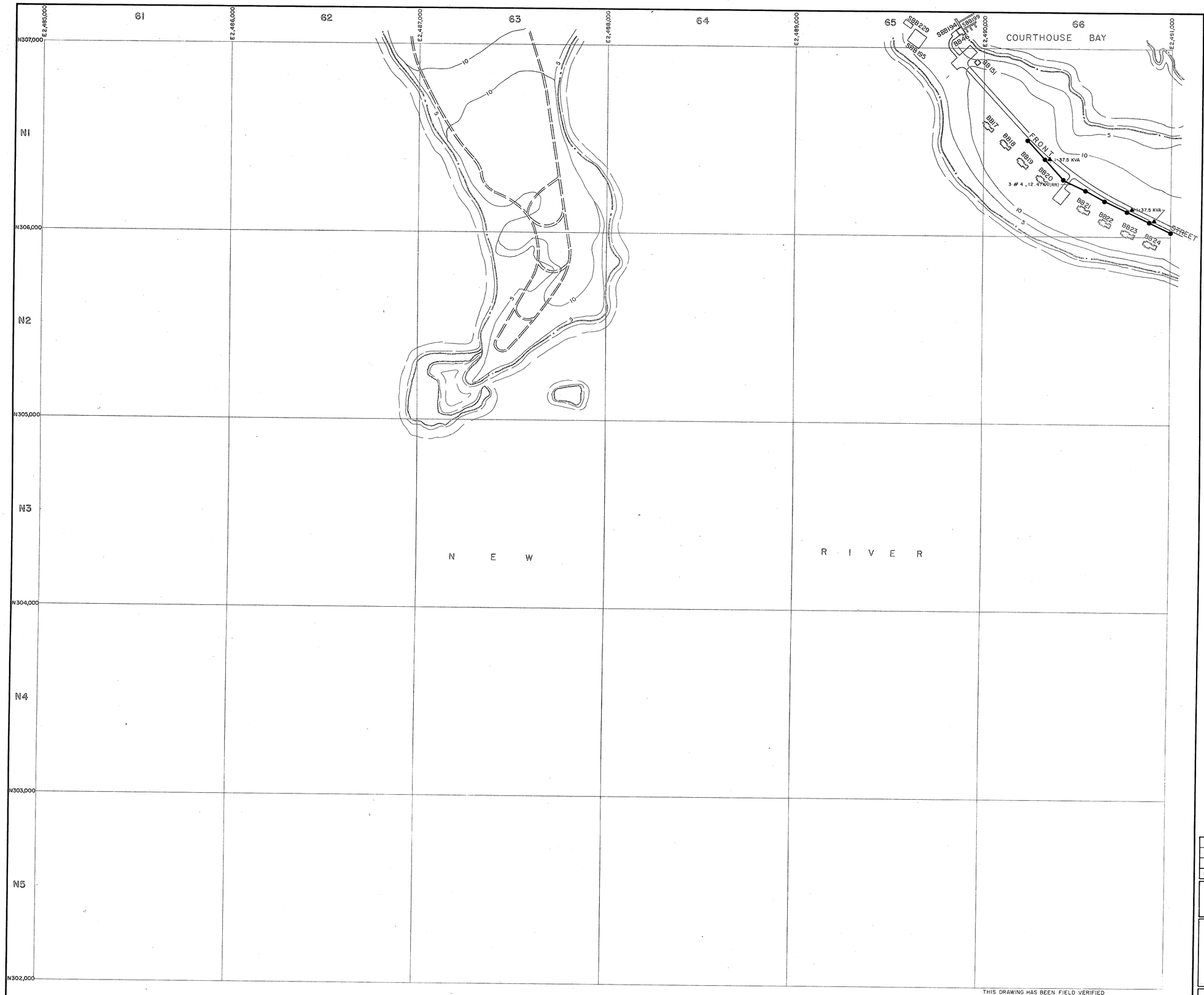
NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET N-5 OF 73

APPROVED / DATE



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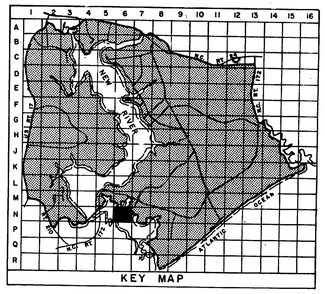


LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- RESERVATION BOUNDARY
- OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED. (LOCATED IN FIELD; 3#1/0, 12.47/7.2 KV, #1/0N — QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED); I-8-10 — POLE IDENTIFICATION NUMBER)
- OVERHEAD DISTRIBUTION TRANSFORMER (VERIFIED IN FIELD; 3-25 KVA — QUANTITY, CAPACITY (KVA))

NORTH

0 200 400 600 800

GRAPHIC SCALE IN FEET

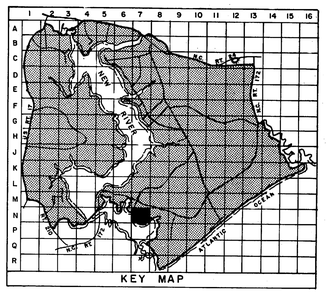
NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET N-6 OF 73

APPROVED / DATE



LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source-USGS Maps)
- RESERVATION BOUNDARY
- SWAMP OR MARSH
- OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED. (LOCATED IN FIELD; 3#1/0, 12.47/7.2 KV, #1/0N — QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED); I-8-10 — POLE IDENTIFICATION NUMBER)
- OVERHEAD DISTRIBUTION TRANSFORMER (VERIFIED IN FIELD; 3-25 KVA — QUANTITY, CAPACITY (KVA))
- FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.) (LOCATED IN FIELD)
- UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED (LOCATED IN FIELD; 3#2, 15 KV, XLP — QUANTITY, SIZE, VOLTAGE (KV), INSULATION; UG or OH, DB; 2 W 4" — DUCT WAYS AND SIZE (INCHES) (DB - DIRECT BURIED); MH-3 — MANHOLE IDENTIFICATION NUMBER)
- PAD MOUNTED TRANSFORMER (VERIFIED IN FIELD; 750 KVA-3 — CAPACITY KVA THREE PHASE OR SINGLE PHASE)
- GENERATOR (VERIFIED IN FIELD; 200 KW — CAPACITY KILOWATTS)
- METER

NORTH

0 200 400 600 800
GRAPHIC SCALE IN FEET

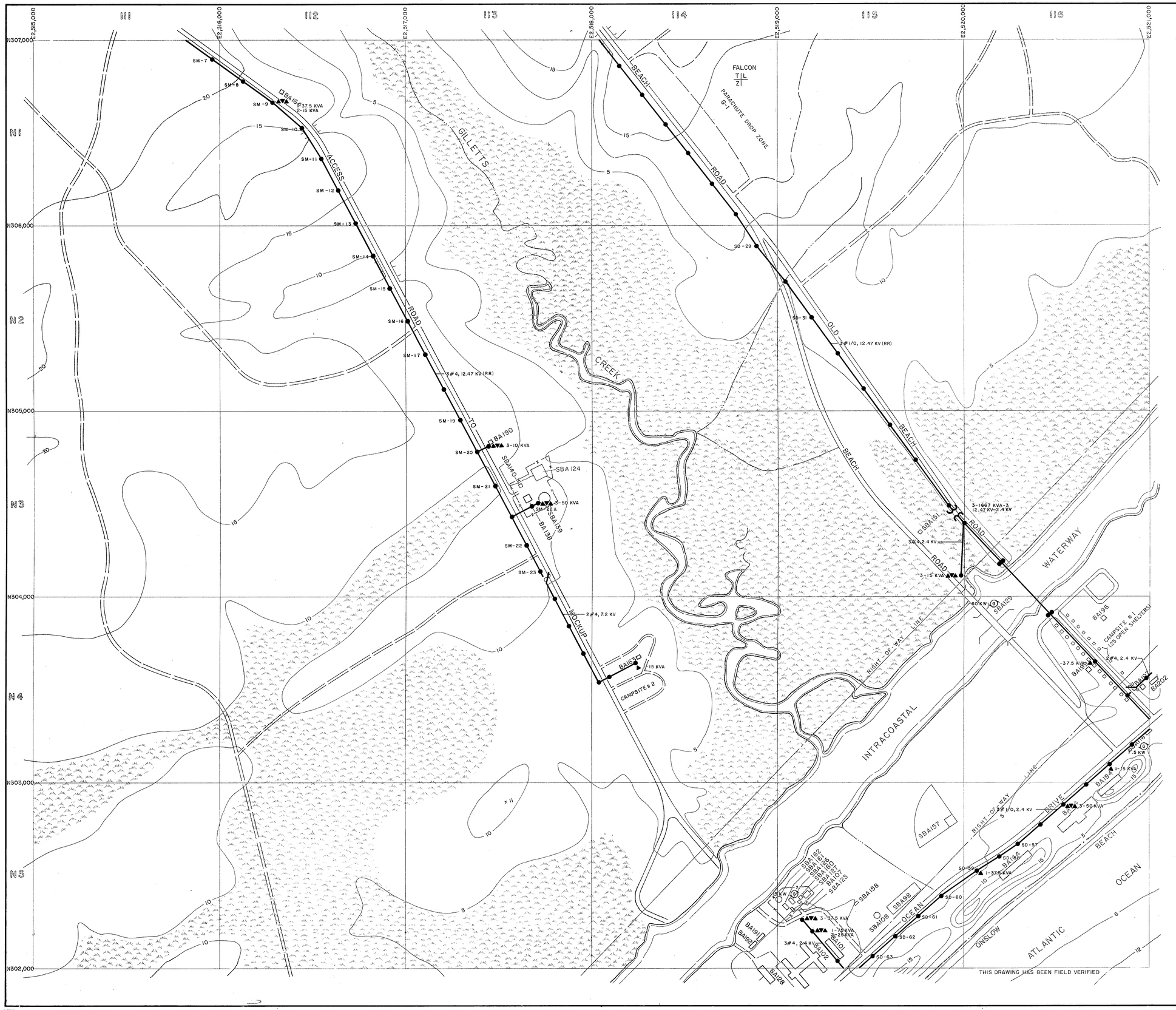
NO.	DESCRIPTION OF REVISION	DATE	INT.

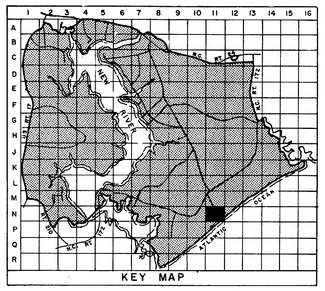
DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET N-7 OF 73

APPROVED / DATE





LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source- USGS Maps)
- TACTICAL LANDING ZONE
- RESERVATION BOUNDARY
- SWAMP OR MARSH
- LOCATED IN FIELD — 3#1/0, 12.47/72 KV, #1/0N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED)); 1-B-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)
- VERIFIED IN FIELD — G 200 KW (CAPACITY KILOWATTS) — GENERATOR

NORTH

0 200 400 600 800
GRAPHIC SCALE IN FEET

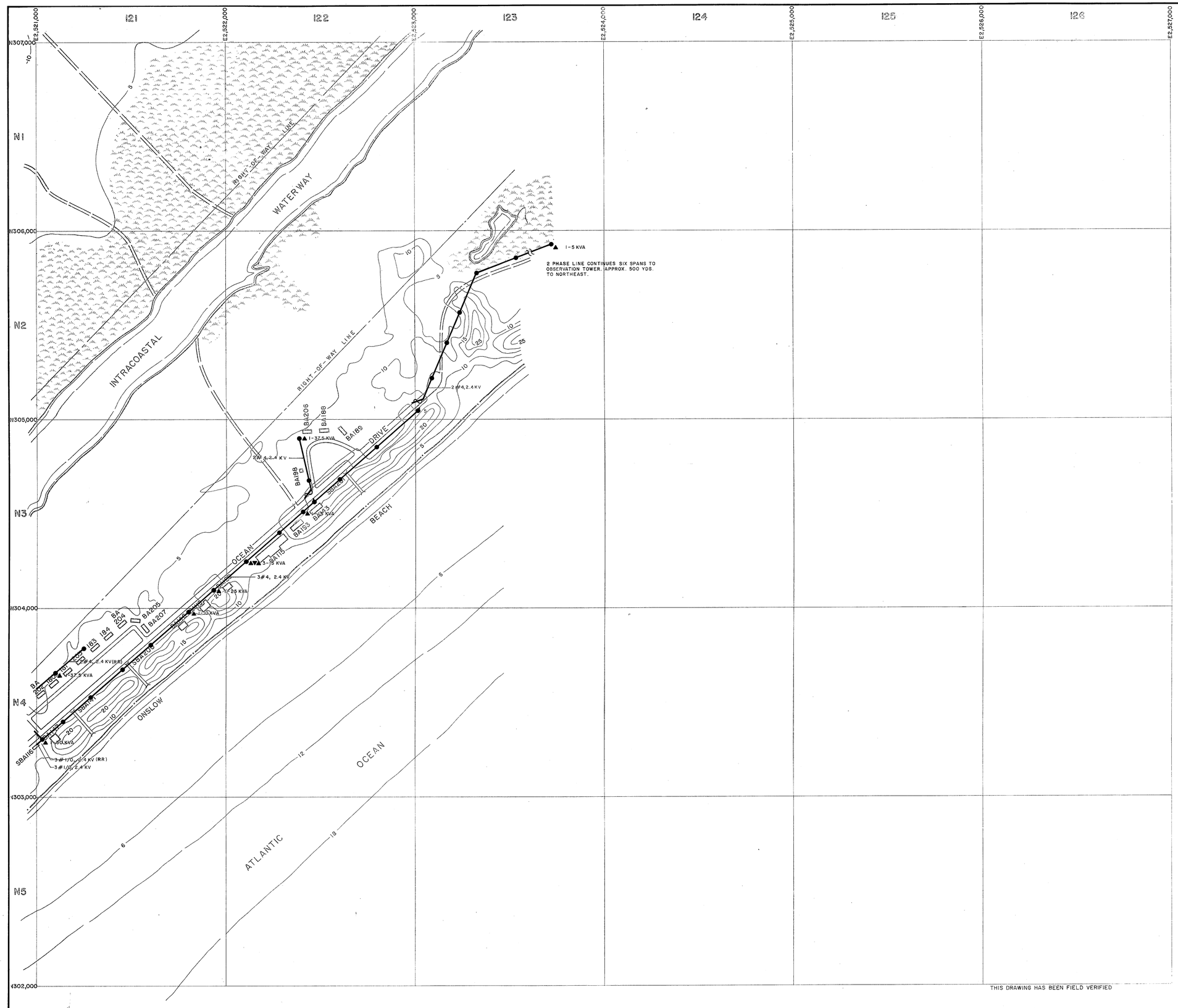
NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET N-11 OF 73

APPROVED / DATE



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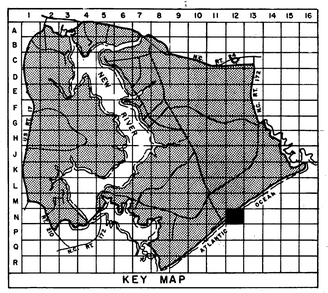


LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- RESERVATION BOUNDARY
- SWAMP OR MARSH
- LOCATED IN FIELD — 3 #1/0, 2.47/72 KV, #1/0 N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED)); 1-B-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)

NORTH

0 200 400 600 800

GRAPHIC SCALE IN FEET

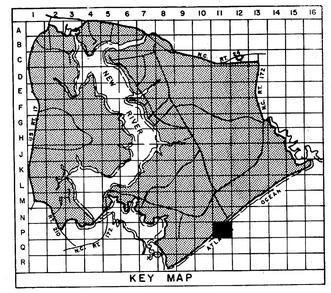
NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET N-12 OF 73

APPROVED / DATE



LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source -USGS Maps)
- RESERVATION BOUNDARY
- SWAMP OR MARSH
- OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED. (LOCATED IN FIELD; 3#1/0, 12.47/7.2 KV, #1/0N — QUANTITY, SIZE, VOLTAGE (KV-KILOVOLTS-NEUTRAL) (MATERIAL COPPER UNLESS NOTED); 1-8-10 — POLE IDENTIFICATION NUMBER)
- OVERHEAD DISTRIBUTION TRANSFORMER (VERIFIED IN FIELD; 3-25 KVA — QUANTITY, CAPACITY (KVA))
- FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.) (LOCATED IN FIELD)
- UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED (LOCATED IN FIELD; 3#2, 15 KV, XLP — QUANTITY, SIZE, VOLTAGE (KV), INSULATION; MH-3 — MANHOLE IDENTIFICATION NUMBER; 3"-2W 4" DB — DUCT WAYS AND SIZE (INCHES) (DB-DIRECT BURIED))
- PAD MOUNTED TRANSFORMER (VERIFIED IN FIELD; 750 KVA-3 — CAPACITY KVA THREE PHASE OR SINGLE PHASE)
- CAPACITOR BANK (LOCATED IN FIELD; 1600 KVAR — TOTAL CAPACITY)

NORTH

0 200 400 600 800
GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ELECTRICAL DISTRIBUTION
EXISTING CONDITIONS

DATE 31 JULY 84	SCALE: GRAPHIC	SHEET P-11 OF 73
APPROVED / DATE		

1 Pm
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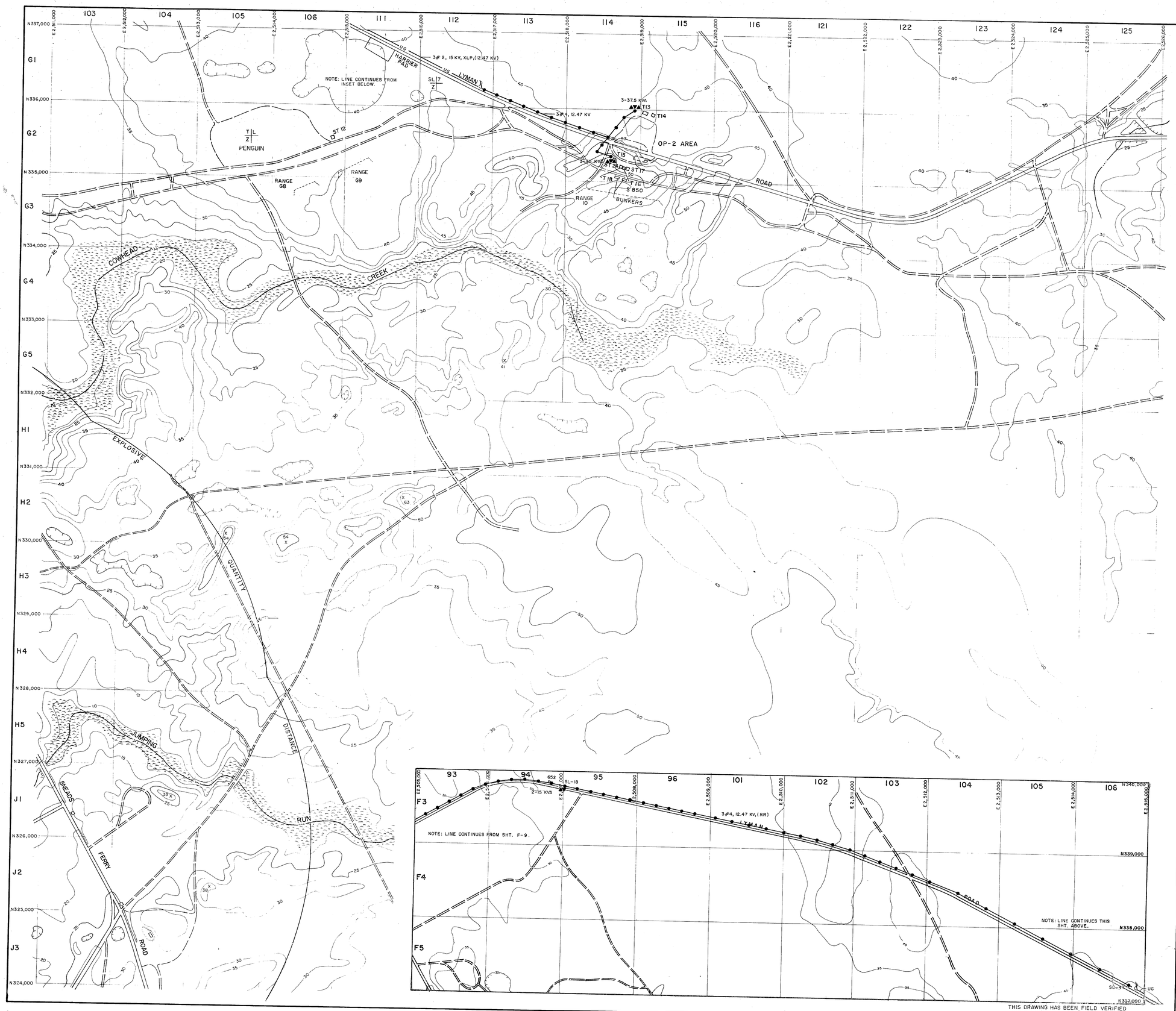

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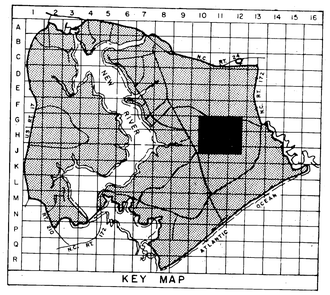


LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- SWAMP OR MARSH
- TACTICAL LANDING ZONE
- HELICOPTER LANDING ZONE
- OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED. (3#1/0, 12.47/7.2 KV, #1/0N; I-B-10)
- OVERHEAD DISTRIBUTION TRANSFORMER (3-25 KVA)
- FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)
- UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED (3#2, 15 KV, XLP; UG 2 W 4"; MH-3)

NORTH

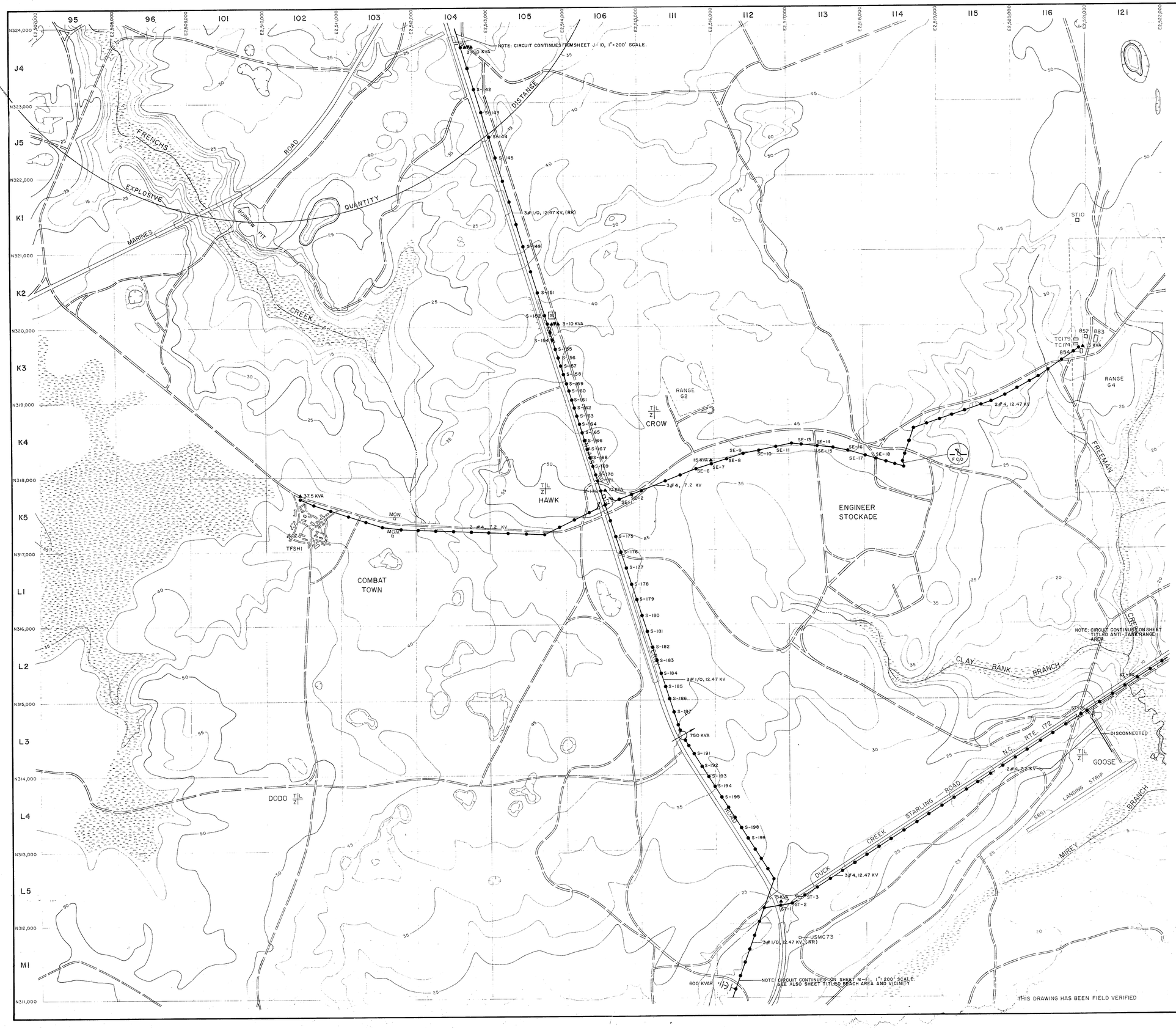
0 500 1000 1500 2000
GRAPHIC SCALE IN FEET

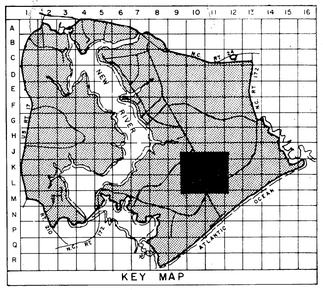
NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

OP-2 AREA - LYMAN ROAD
EXISTING CONDITIONS

DATE 31 JULY 84	SCALE: GRAPHIC	SHEET 1 OF 6
APPROVED / DATE		





LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source-USGS Maps)
- TACTICAL LANDING ZONE
- SWAMP OR MARSH
- LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0N — QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL)(MATERIAL COPPER UNLESS NOTED); I-8-10 — POLE IDENTIFICATION NUMBER — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.
- VERIFIED IN FIELD — 3-25 KVA — QUANTITY, CAPACITY (KVA) — OVERHEAD DISTRIBUTION TRANSFORMER
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)
- VERIFIED IN FIELD — 3-500 KVA — QUANTITY, REGULATOR SIZE (KVA) — VOLTAGE REGULATOR
- M — METER
- LOCATED IN FIELD — 1600 KVAR — TOTAL CAPACITY — CAPACITOR BANK

NORTH

0 500 1000 1500 2000
GRAPHIC SCALE IN FEET

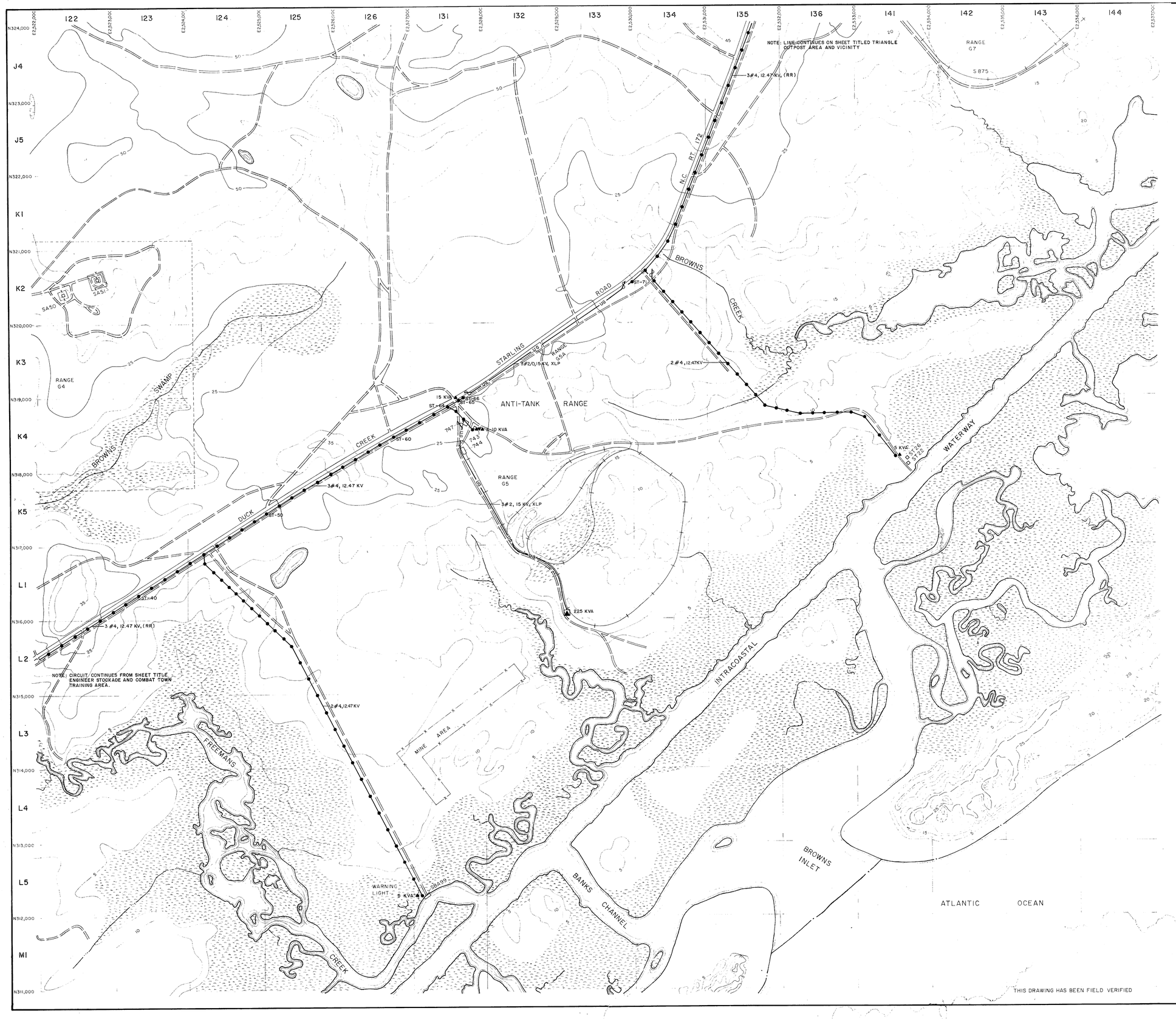
NO.	DESCRIPTION OF REVISION	DATE	INT.

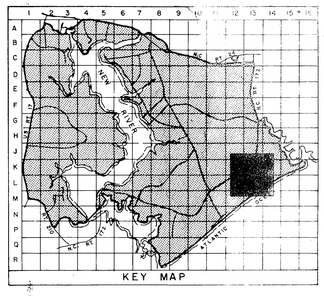
DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ENGINEER STOCKADE AND
COMBAT TOWN TRAINING AREAS
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET 2 6

APPROVED / DATE





LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Map)
- RESERVATION BOUNDARY
- SWAMP OR MARSH

LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT)(N-NEUTRAL) (MATERIAL COPPER UNLESS NOTED)); I-8-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED.

VERIFIED IN FIELD — 3-25 KVA (QUANTITY, CAPACITY (KVA)) — OVERHEAD DISTRIBUTION TRANSFORMER

LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N. O.)

LOCATED IN FIELD — 3#2, 15 KV, XLP (QUANTITY, SIZE, VOLTAGE (KV), INSULATION); MH-3 (MANHOLE IDENTIFICATION NUMBER); UG 2-W 4" DB (DUCT WAYS AND SIZE (INCHES) (DB - DIRECT BURIED)) — UNDERGROUND PRIMARY LINE, 3 PHASE, UNLESS SINGLE PHASE NOTED

VERIFIED IN FIELD — 750 KVA-3 (CAPACITY KVA THREE PHASE OR SINGLE PHASE) — PAD MOUNTED TRANSFORMER

NORTH

0 500 1000 1500 2000
GRAPHIC SCALE IN FEET

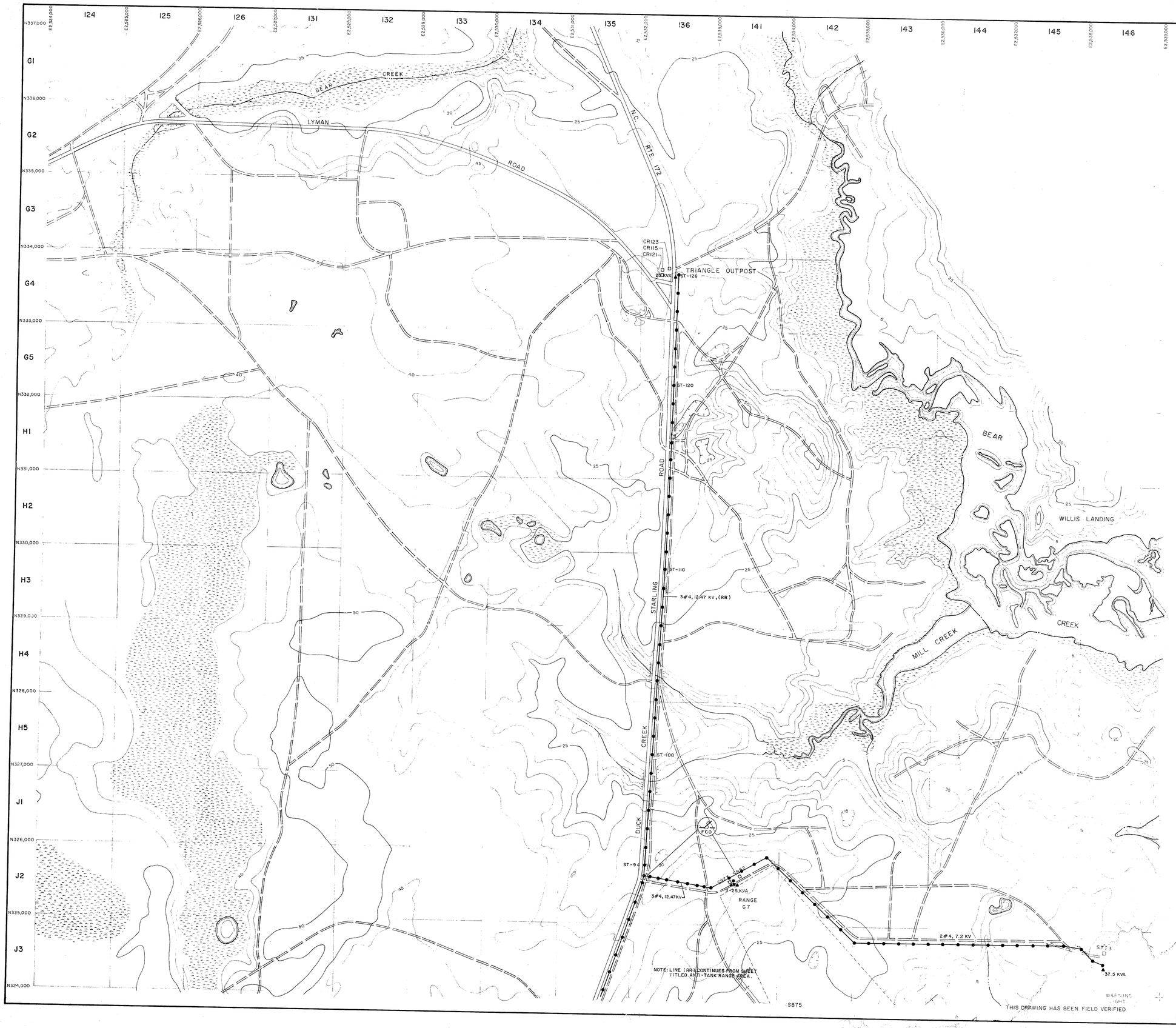
NO.	DESCRIPTION OF REVISION	DATE	INT.

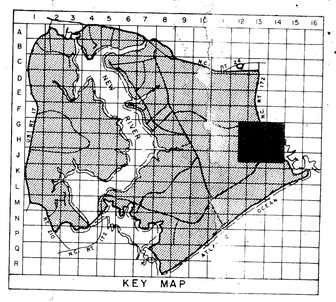
DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ANTI-TANK RANGE AREA
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET 3 OF 6

APPROVED / DATE





LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- RESERVATION BOUNDARY
- SWAMP OR MARSH
- OVERHEAD PRIMARY POLE LINE 3 PHASE, UNLESS SINGLE PHASE NOTED. (LOCATED IN FIELD; 3#1/0, 12.47/7.2 KV, #1/0N — QUANTITY, SIZE, VOLTAGE (KV - KILOVOLT)(N - NEUTRAL), MATERIAL COPPER UNLESS NOTED; I-8-10 — POLE IDENTIFICATION NUMBER)
- OVERHEAD DISTRIBUTION TRANSFORMER (VERIFIED IN FIELD; 3-25 KVA — QUANTITY, CAPACITY (KVA))
- FUSED CUTOUT (CLOSED POSITION UNLESS INDICATED BY N.O.) (LOCATED IN FIELD)

NORTH

0 500 1000 1500 2000
GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DATE	INT.

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

TRIANGLE OUTPOST AREA AND VICINITY
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE: GRAPHIC | SHEET 4 OF 6

APPROVED / DATE

NOTE: LINE CONTINUES FROM SHEET TITLED ENGINEER STOCKADE AND COMBAT TOWN TRAINING AREAS

OCB #39 1200 A

FCO

S-213

3# 1/0, 12.47 KV

SO-5

3 PHASE LINE CONTINUES TO STEP DOWN TRANSFORMERS AT ONSLOW BEACH. SHEET M-11

3# 1/0, 12.47 KV, (RR)

S-230

S-231

SM-1

3 PHASE LINE CONTINUES TO MOCK-UP AREA. SHEET M-11.

SM-4

S-240

S-243

S-245

S-246

S-250

S-266

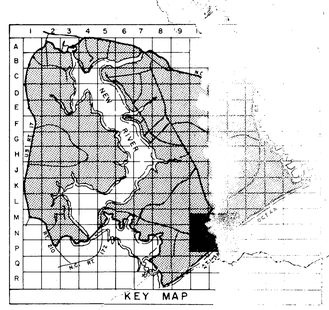
S-259

3# 1/0, 12.47 KV

NOTE: LINE CONTINUES ON SHEET TITLE MILE HAMMOCK BAY AREA

ATLANTIC OCEAN

THIS DRAWING HAS BEEN FIELD VERIFIED



LEGEND

- BUILDINGS AND STRUCT
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - US
- RESERVATION BOUNDARY
- SWAMP OR MARSH
- T/L Z — TACTICAL LANDING ZONE
- LOCATED IN FIELD — 3#1/0, 12.47/7.2 KV, #1/0N (QUANTITY, SIZE, VOLTAGE (KV-KILOVOLT) IN-NEUTRAL) — I-B-10 (POLE IDENTIFICATION NUMBER) — OVERHEAD PRIMARY POLE L UNLESS SINGLE PHASE NOTE
- LOCATED IN FIELD — FUSED CUTOUT (CLOSED POSITION INDICATED BY N. O.)
- VERIFIED IN FIELD — B 1200 A (RATING AMPS) — CIRCUIT BREAKER

NORTH

0 500 1000 1500 2000

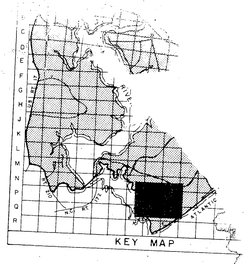
GRAPHIC SCALE IN FEET

NO.	DESCRIPTION OF REVISION	DA	INT

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLI

BEACH AREA AND VICINITY
EXISTING CONDITIONS

DATE 31 JULY 84	SCALE: GRAPHIC	SHEET 5 OF
APPROVED / DATE		



LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- RESERVATION BOUNDARY
- SWAMP OR MARSH
- TACTICAL LANDING ZONE
- OVERHEAD PRIMARY POLE LINE 3 PH UNLESS SINGLE PHASE NOTED.

LOCATED IN FIELD — 3 #1/0, 12.47/7.2 KV, #1/0 N — QUANTITY, SIZE, VOLTAGE (KV - KILOVOLT) (N - NEUTRAL) (MATERIAL CODE)

I-8-10 — POLE IDENTIFICATION NUMBER

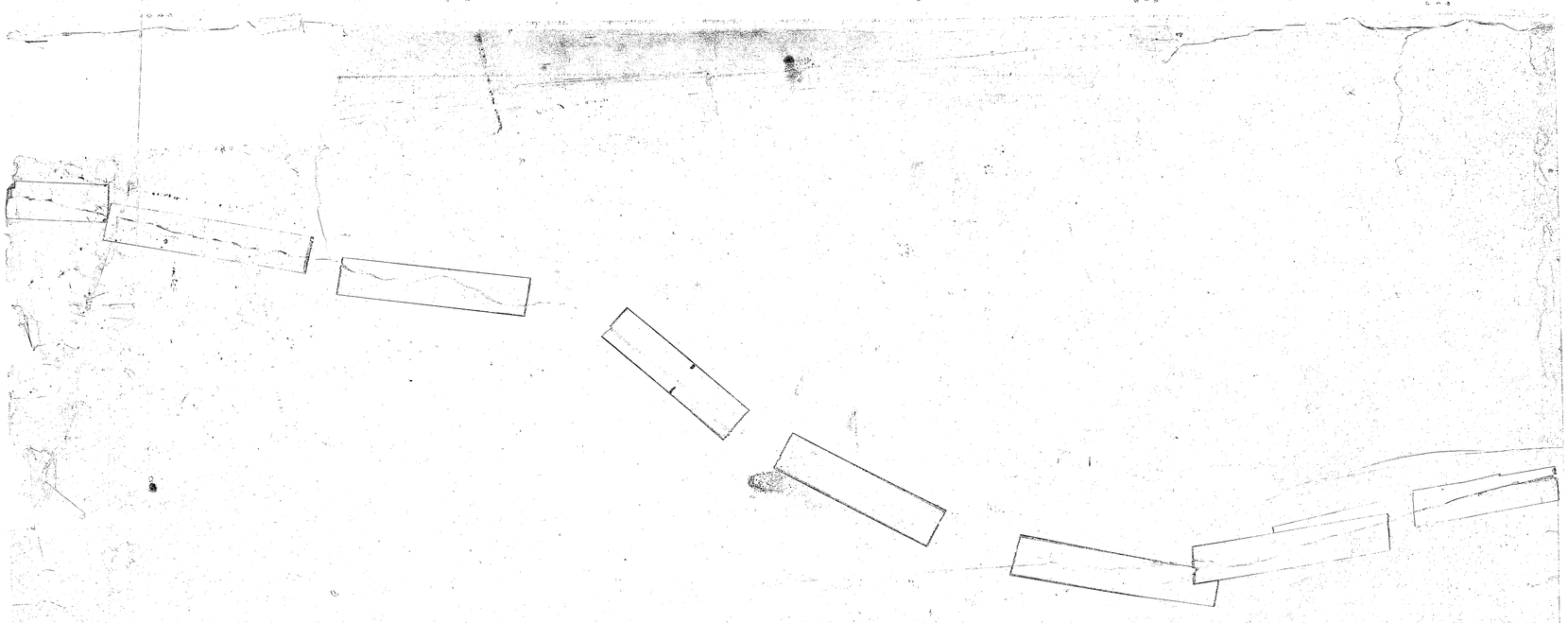
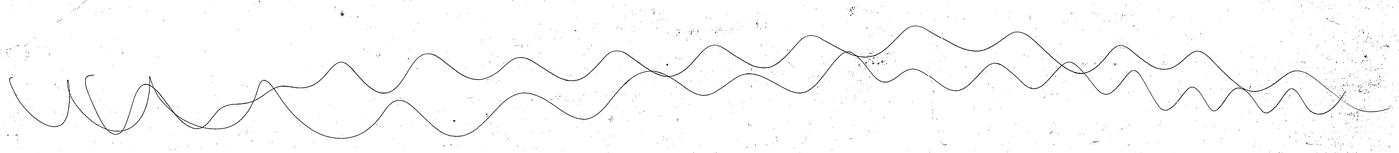
NORTH

0 500 1000
GRAPHIC SCALE

NO.	DESCRIPTION OF REVISION

DEPARTMENT OF THE NA
MARINE CORPS BA
CAMP LEJEUNE, NORTH CA

MILE HAMMOCK BAY AREA
EXISTING CONDITIONS

DATE 31 JULY 84 | SCALE GRAPHIC | SHEET 6 OF 6

APPROVED / DATE