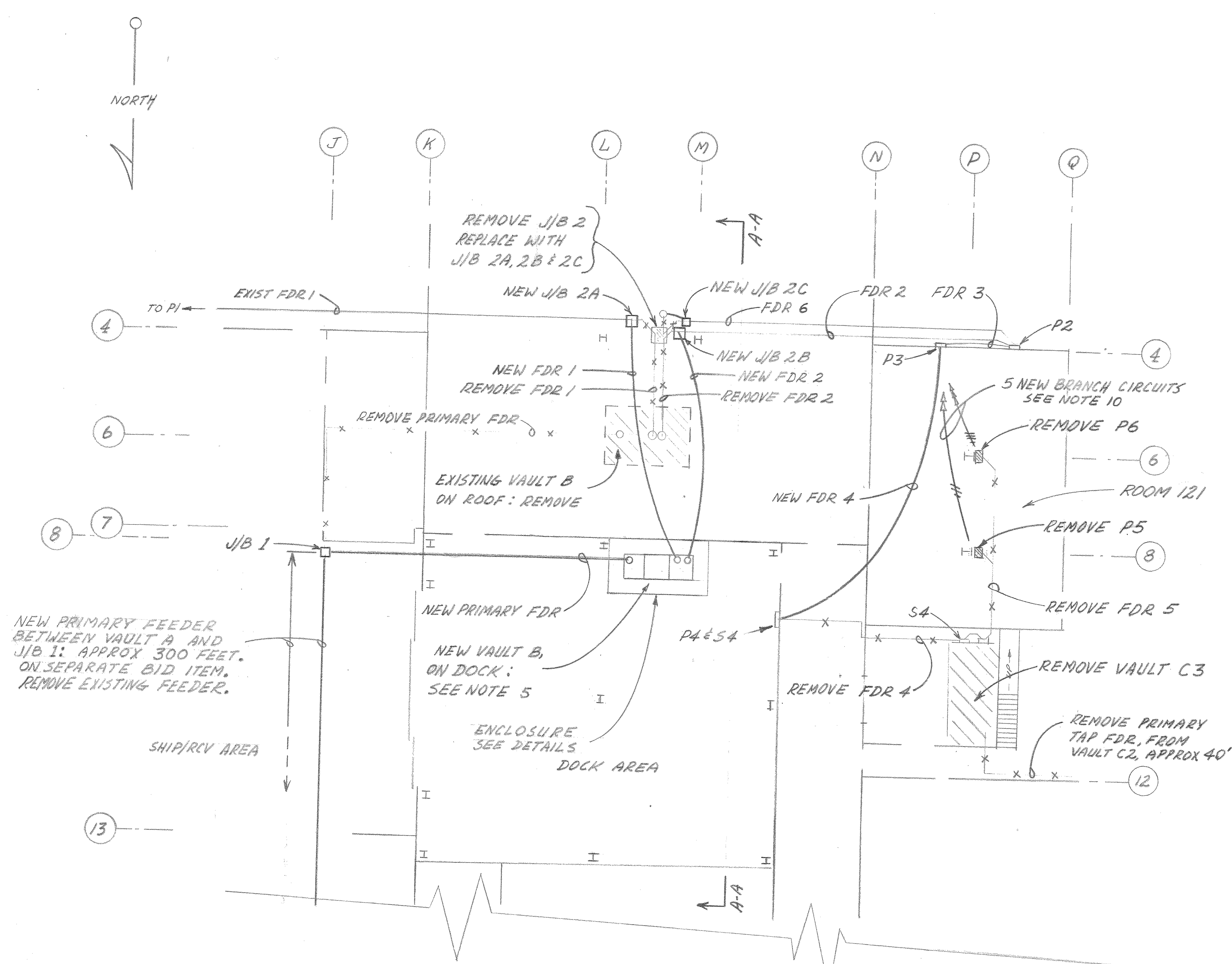
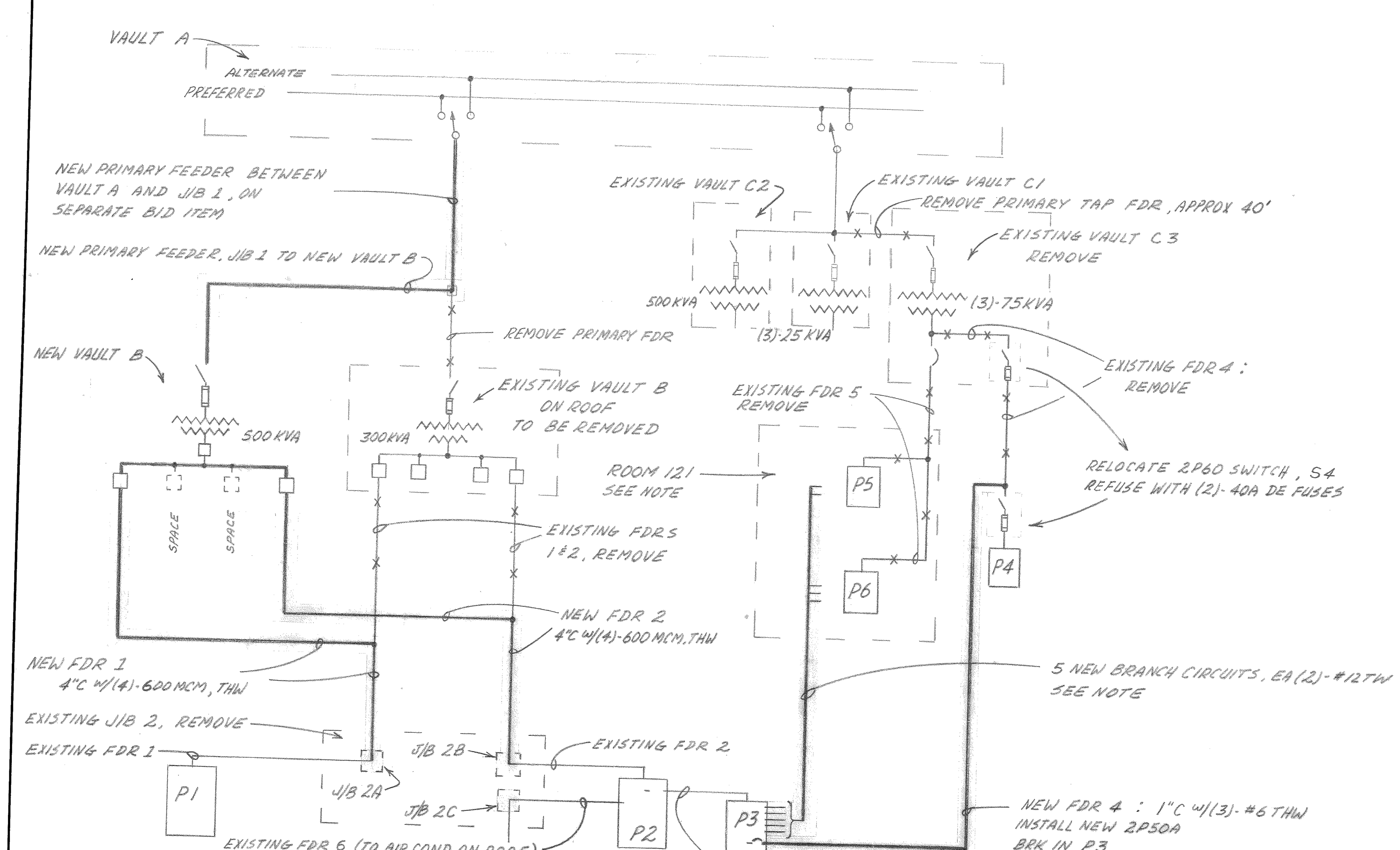


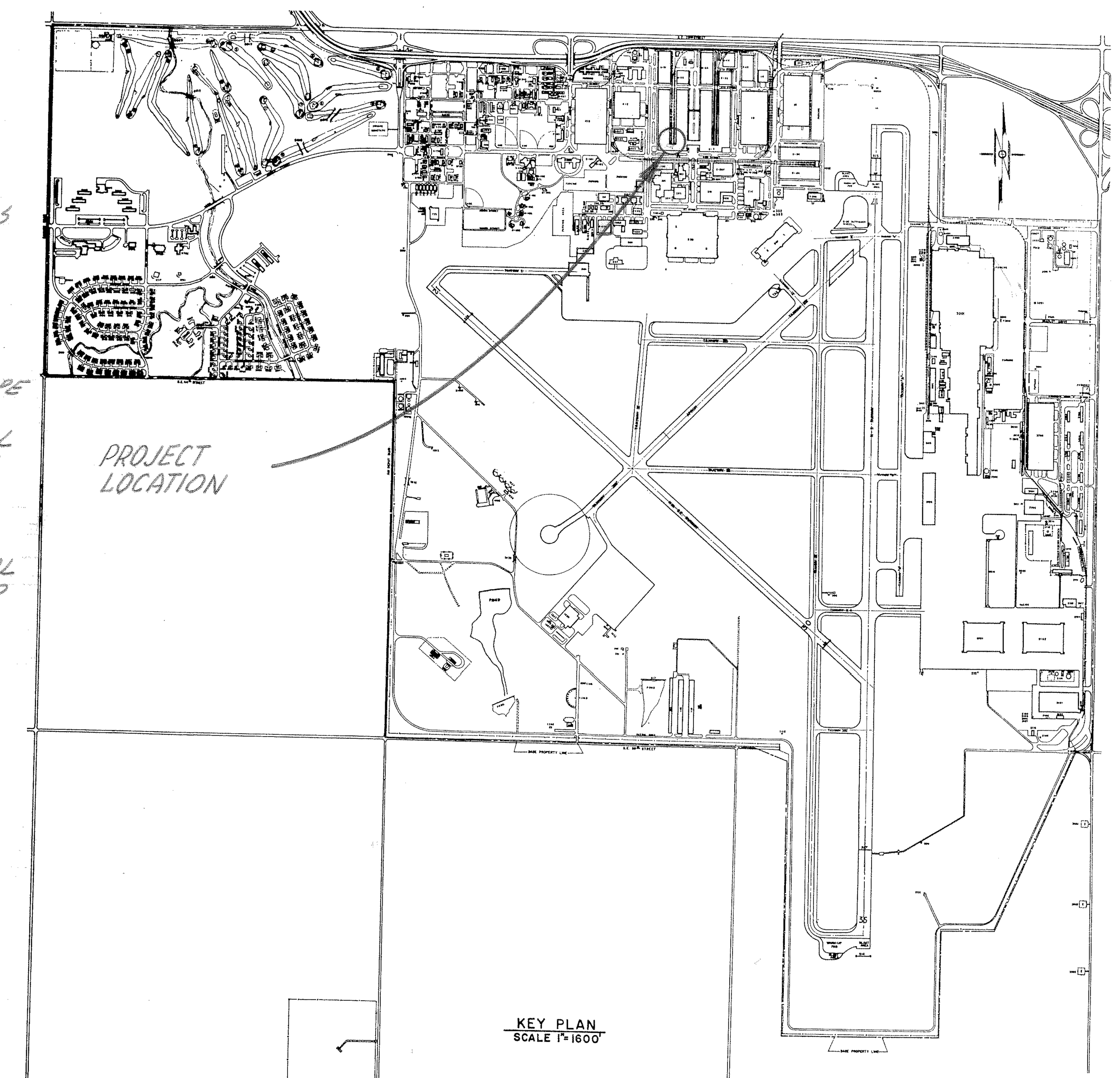

PLAN
SCALE 1/16" = 1'0"




1-LINE DIAGRAM
N.T.S.

## NOTES

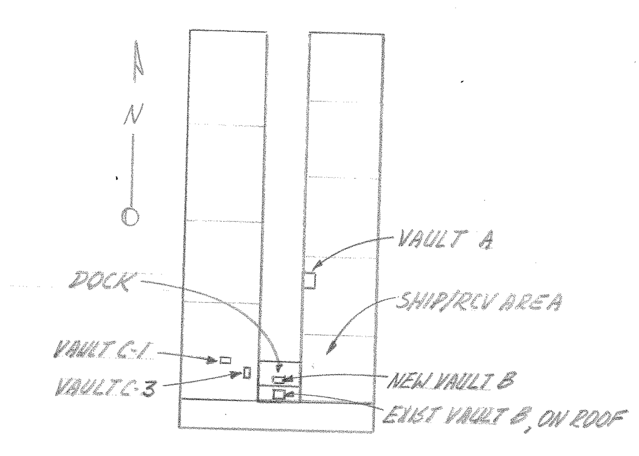
1. ALL NEW PRIMARY FEEDER TO BE 3-INCH CONDUIT WITH CABLE: CABLE TO BE 3/C, COPPER, #2 AWG, WITH INTERSTICE GROUND, CLP INSULATION FOR 90°C COND TEMP, 15KV GROUNDED, SHIELDED, PVC JACKET.
2. ALL NEW BOXES, BOTH SPLICE & PULL, ON PRIMARY FEEDER SHALL BE NOT LESS THAN 36" LONG × 24" WIDE × 12" DEEP.
3. ALL SPLICES AND TERMINATIONS IN NEW PRIMARY FEEDER SHALL BE MADE IN ACCORDANCE WITH INSTRUCTIONS FROM THE CABLE MANUFACTURER. STRESS CONES WILL BE MADE AT ALL SPLICES AND TERMINATIONS.
4. BETWEEN NEW J/B 1 AND NEW VAULT B, NEW PRIMARY FEEDER WILL BE ROUTED THRU ASBESTOS SIDING ABOVE CONCRETE WALL AND, IN THE DOCK, BELOW AN OPEN-WEB JOIST (NOT LOCATED UNDER THE RAIN GUTTER).
5. NEW VAULT B WILL BE UNIT SUBSTATION TYPE CONSISTING OF INCOMING, TRANSFORMER AND SECONDARY SECTIONS. COMPLETE UNIT WILL BE INDOOR TYPE WITH "DEAD FRONT" CONSTRUCTION, 60 HZ, WITH STANDARD NEMA ACCESSORIES:
   (a) INCOMING SECTION WILL BE FUSED AIR LOAD INTERRUPTER SWITCH. SWITCH WILL BE MANUALLY-OPERATED, GANGED, 3-POLE, 200 AMPS CONTINUOUS AND INTERRUPT, 40000 AMPS ASYM MOMENTARY, 13.8 KV NOMINAL. FUSES WILL BE SIZE 175E, 20000 AMPS ASYM INTERRUPT.
   (b) TRANSFORMER SECTION WILL BE 500 KVA, 3-PHASE, CLASS AA, 150°C RISE. PRIMARY WINDING WILL BE 4160 × 12480 VOLTS DELTA, WITH (2)- 2 1/2 % TAPS A & B NORMAL FOR BOTH 4160 & 12480 VOLT CONNECTIONS: PROVIDE BOLT-LINK TERMINALS FOR TAP CHANGING DEENERGIZED. SECONDARY WINDING WILL BE 208Y/120 VOLTS.
   (c) SECONDARY SECTION WILL CONTAIN A MAIN BREAKER, 2 FEEDER BREAKERS AND SPACE PROVISIONS FOR 2 ADDITIONAL (FUTURE) FEEDER BREAKERS. ALL BREAKERS WILL BE DRAWOUT TYPE, MANUALLY OPERATED, 600 VAC RATED. MAIN BREAKER WILL BE 2000 AMPS (MINIMUM) CONTINUOUS, 100000 AMPS INTERRUPT AND 150000 AMPS MOMENTARY, BOTH ASYM AT 240 VAC. FEEDER BREAKERS, INCLUDING SPACE PROVISIONS, WILL BE 600 AMPS CONTINUOUS, 75000 AMPS INTERRUPT AND 120000 AMPS MOMENTARY, BOTH ASYM AT 240 VAC.
6. NEW FEEDERS 1 & 2 REQUIRE PENETRATIONS IN CONCRETE WALL. PROVIDE ESCUTCHEON PLATES ON INSIDE SURFACE.
7. PAINT, TO MATCH EXISTING, NEW FEEDERS 1 & 2 AND NEW JUNCTION BOXES 2A, 2B & 2C.
8. ALL PANELBOARDS, P1 THRU P6, ARE EXISTING.
9. EXISTING JUNCTION BOX 2 IS COMMON TO FEEDERS 1, 2 & 3: REMOVE AND REPLACE WITH SEPARATE BOXES (2A, 2B & 2C) FOR EACH FEEDER.
10. (a) IN ROOM 121, REMOVE PANELBOARDS 5 & 6, FEEDER 5 (TO VAULT C3) AND ALL ASSOCIATED ABANDONED BRANCH CIRCUITS.
   (b) IN PANELBOARD 3, INSTALL (5) - SP/20A BREAKERS IN SPACES. INSTALL 5 #12TW BRANCH CIRCUITS BETWEEN THESE NEW BREAKERS AND ACTIVE BRANCH CIRCUITS ON PANELBOARDS 5 & 6.
   (c) PANELBOARD 5 HAS 3 ACTIVE BRANCH CIRCUITS: RECONNECT TO 2 NEW CIRCUITS FROM PANELBOARD 3.
   (d) PANELBOARD 6 HAS 4 ACTIVE BRANCH CIRCUITS: RECONNECT TO 3 NEW CIRCUITS FROM PANELBOARD 3.
   (e) ALL RECONNECTIONS OF BRANCH CIRCUITS IN ROOM 121 TO BE MADE ABOVE CEILING.
   (f) ALL NEW BRANCH CIRCUITS TO BE #12TW IN EMT.



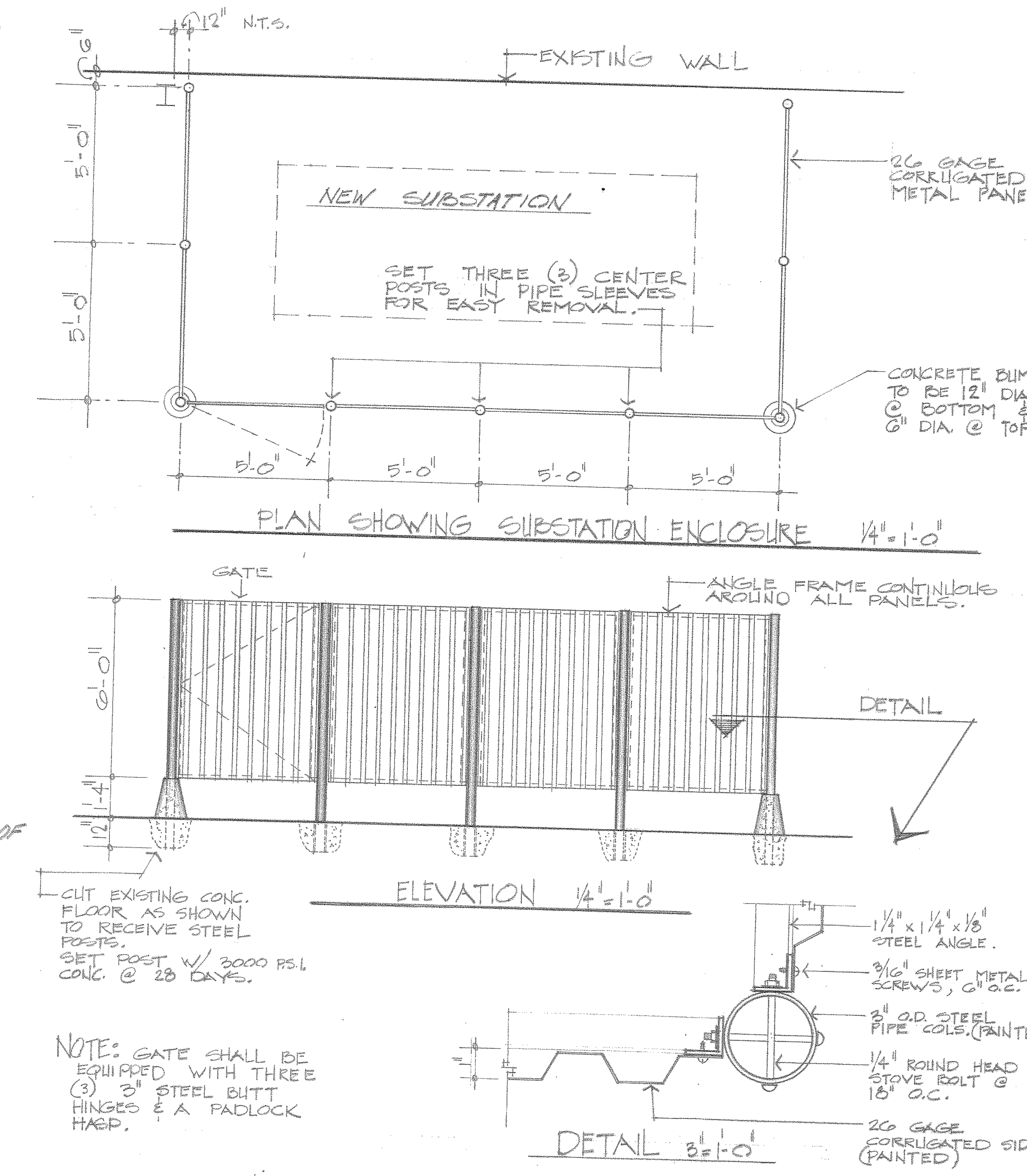

KEY PLAN
SCALE 1"=1600'

## LEGEND

| Symbol | Meaning |
|---|---|
| ——— | NEW |
| —×—×— | TO BE REMOVED |
| ——— | TO REMAIN |
| P | PANELBOARD |
| J/B | JUNCTION BOX |

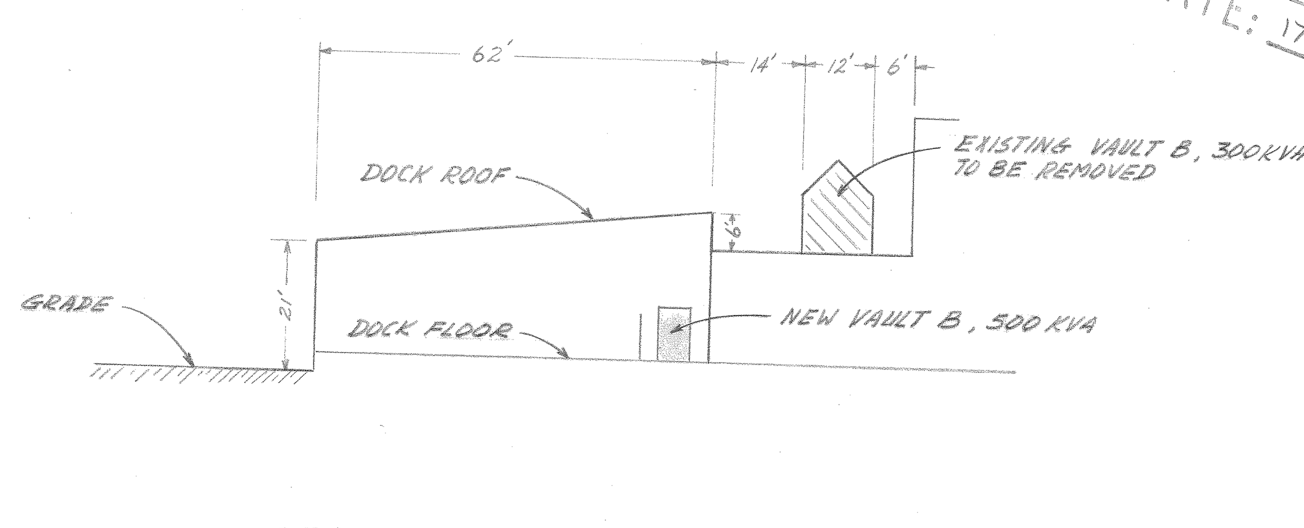



KEY PLAN
SCALE: 1-INCH = 300-FEET




ENCLOSURE DETAILS

NOTE: ENCLOSURE SHALL BE PAINTED FED. STD. COLOR No. 26440. PAINT SHALL BE EQUAL TO GOVT. SPEC. TT-P-105a, & APPLIED IN TWO COATS.




SECTION A-A REMOVE VAULT B
SCALE 1/32-INCH = 10-FEET

AS BUILT
DATE: 17 JULY '72

| REVISION | DATE | DESCRIPTION | BY | CHK'D |
|---|---|---|---|---|
| | | | | |

**DEPARTMENT OF THE AIR FORCE**
TINKER AIR FORCE BASE
OCAMA
OKLAHOMA CITY — CIVIL ENGINEERING DIVISION — OKLAHOMA

DESIGNED BY PRESSON
DRAWN BY PRESSON
TRACED BY
CHECKED BY

**REPLACE TRANSFORMERS, BLDG 1**

**PLAN & DETAILS**

SUBMITTED BY W.T. Hemmer DATE 9-29-70
CHIEF, ENGR. & CONST. BRANCH

APPROVED W.T. Foster DATE 9/29/70
DEPUTY CIVIL ENGINEER

APPROVED DATE 29 Sept 70
THE CIVIL ENGINEER

APPROVED DATE 25 Sept 70
OFFICE, GROUND SAFETY ENGINEER

APPROVED DATE 23 Sep '70
OFFICE, SURGEON (SAN/IND. HYG. ENGR)

APPROVED — CHIEF, FIRE PREVENTION — DATE

PROJECT NR. OC-216-1 DATE SEP 70
DRAWING NUMBER OCDE-F-7119-1
SHEET 1 OF 1

OCAMA FORM JUN 63 229C

T1 - 1 - F5 - 175