

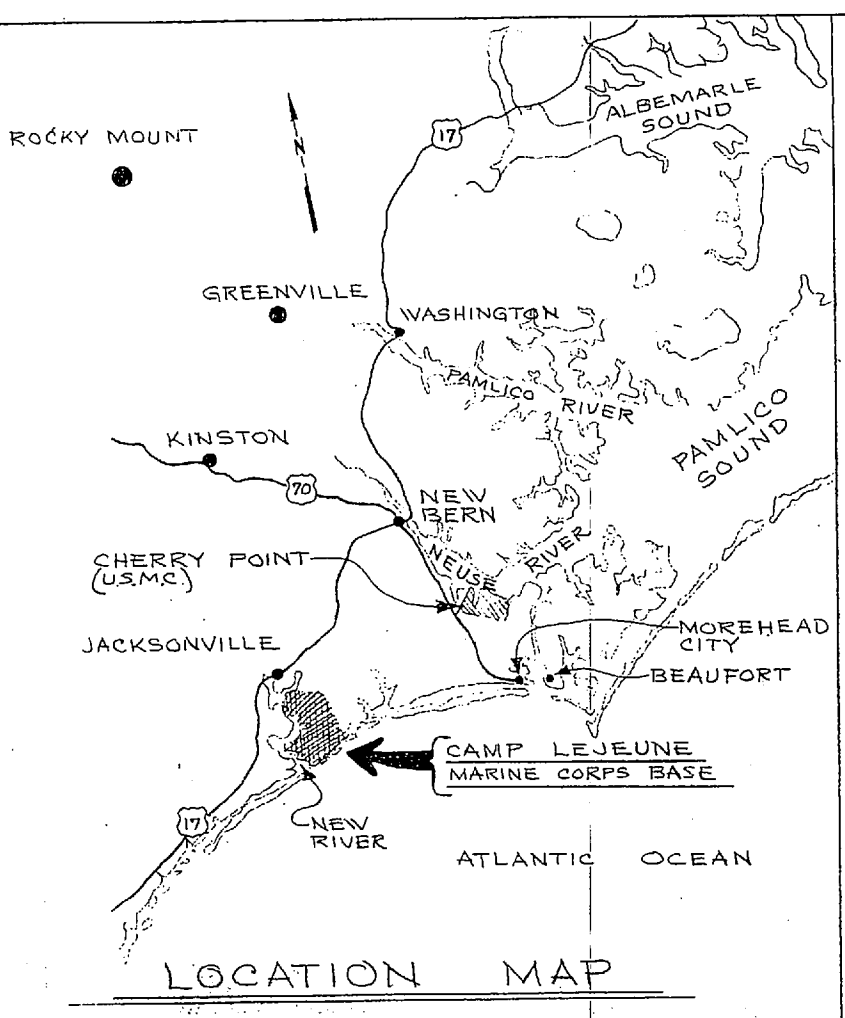




| REVISIONS |                  |      |          |
|-----------|------------------|------|----------|
| NO.       | DESCRIPTION      | DATE | APPROVED |
| 1         | REVISED AS-BUILT |      |          |

# MASTER TELEVISION ANTENNA SYSTEM

HADNOT POINT AREA & FRENCH CREEK AREA  
MARINE CORPS BASE CAMP LEJEUNE, N.C.



## NOTES

- HEADEND EQUIPMENT SHALL BE LOCATED IN BUILDING 24, BASE COMMUNICATIONS. BLDG 24 IS CONCRETE CONSTRUCTION.
- THE STUDIO IS LOCATED AT BLDG. 54.
- EXISTING HEADEND EQUIPMENT SHALL BE DISCONNECTED WHEN NEW SYSTEM IS READY FOR OPERATION. DOWN TIME ON SWITCH OVER SHALL BE KEPT TO A MIN. AND SHALL BE COORDINATED WITH THE CONTRACTING OFFICER.
- CONTRACTOR SHALL TEST EXIST. TRUNK CABLE WITH A TDR. ANY CABLE SEGMENT FOUND DEFECTIVE SHALL BE REPORTED TO THE CONTRACTING OFFICER. IN ADDITION THE TDR SHALL BE USED TO CHECK ALL NEW TRUNK AND FEEDER CABLE. A PRINTED READOUT OF EACH SECTION OF CABLE TESTED SHALL BE PROVIDED TO THE CONTRACTING OFFICER.
- PROVIDE FEEDER CABLE FROM AMPLIFIER AT POLE 17 C TO NEW BARRACKS AT HADNOT POINT. CONTRACTOR SHALL PROVIDE SLACK LOOPS IN EACH MANHOLE.
- REPLACE EXIST. DISTRIBUTION AMPLIFIER WITH NEW 2 WAY HYBRID AMPLIFIER AND POSITION AS REQUIRED TAKING INTO ACCOUNT NEW HEADEND LOCATION. SEE LEGEND ON EXIST. AMPLIFIERS.
- PROVIDE 30-35 dBmV OUTPUT AT EACH DIRECTIONAL COUPLER OR FEEDER AMPLIFIER. TERMINATE FOR FUTURE CONNECTION BY OTHERS.
- CONTRACTOR SHALL USE EXTREME CAUTION WHEN DIGGING IN THIS AREA. DIRECT BURIAL FIRE ALARM AND TELEPHONE CIRCUITS IN AREA.
- CONTRACTOR SHALL RUN CONDUIT UNDER SIDEWALK (APPROX. 5') TO EXISTING COLUMN UP COLUMN TO EXISTING ANTENNA. (TYPICAL OF G BARRACKS).
- PROVIDE DIRECT BURIED CABLE FROM PEDESTAL TO EXISTING ANTENNA TERMINATE END AND COIL UP 15 FOOT CONNECTION TO HEADEND SHALL BE BY GOVERNMENT PERSONNEL (TYPICAL OF G BARRACKS). OUTPUT AT D.C. SHALL BE 30-35 dBmV.
- ALL WORK AND MATERIAL IS NEW UNLESS OTHERWISE NOTED AS EXISTING AND SHALL BE PROVIDED BY THE CONTRACTOR.
- CONTRACTOR SHALL TURN OVER TO BASE COMMUNICATIONS ELECTRONICS ALL EXISTING DISTRIBUTION AMPLIFIERS.
- PROVIDE 1" RIGID STEEL CONDUIT 10 FEET UP POLE TO PROTECT CABLE.
- MEASURE EXIST. AMPLIFIER OUTPUT PORTS PRIOR TO NEW INSTALLATION. INSURE THAT THE SAME SIGNAL LEVEL IS MAINTAINED ON EXIST. FEEDERS IN HADNOT POINT AREA.

## LEGEND

- NEW POLE
- EXISTING POLE
- NEW COAXIAL CABLE WITH MESSENGER ON EXISTING POLES
- EXISTING UNDERGROUND DUCTBANK
- EXISTING RIGID STEEL CONDUIT UNDER ROADWAY
- ← MATV → EXISTING DIRECT BURIAL MASTER ANTENNA TELEVISION CABLE
- UG— UNDERGROUND COAXIAL CABLE
- ⊙ POWER SUPPLY
- ⊕ 2 WAY SPLITTER
- ⊘ DISCONNECT SWITCH
- ⊙ DIRECTIONAL COUPLER (TAP) (DC) SEE NOTE 7
- E— EXISTING CABLE WITH MESSENGER ON EXIST. POLES
- TDR ▲ TIME DOMAIN REFLECTOMETRY - SEE NOTE 20
- TRANSFORMER
- APPROX. LOCATION OF EXIST. BLDG. ANTENNA
- W— END OF LINE RESISTER
- ⊕ PEDESTAL

## EXISTING AMPLIFIER LEGEND (JEROLD STARLINE ONE)

| SYMBOL | MODEL      | DESCRIPTION               |
|--------|------------|---------------------------|
| ⊙      | SA-1AV     | TRUNK AMP W/ DIST. & AGC. |
| ⊙      | SA-ZAW     | TRUNK AMP W/ DIST.        |
| ⊙      | SA-SAW     | BRIDGING AMP.             |
| ⊙      | SPS-12     | POWER SUPPLY              |
| ⊙      | STC-3      | TWO WAY SPLITTER          |
| ⊙      | STE        | THERMATIC EQUALIZER       |
| ⊙      | SE-12-1500 | INTERNAL EQUALIZER        |
| ⊙      | SE-17-1500 | INTERNAL EQUALIZER        |
| ⊙      | FM-1       | FEEDER MAKER              |
| ⊙      | FM-2       | FEEDER MAKER              |
| ⊙      | STR-75     | TERMINATOR                |
| ⊙      | TR-75FCW   | TERMINATOR                |

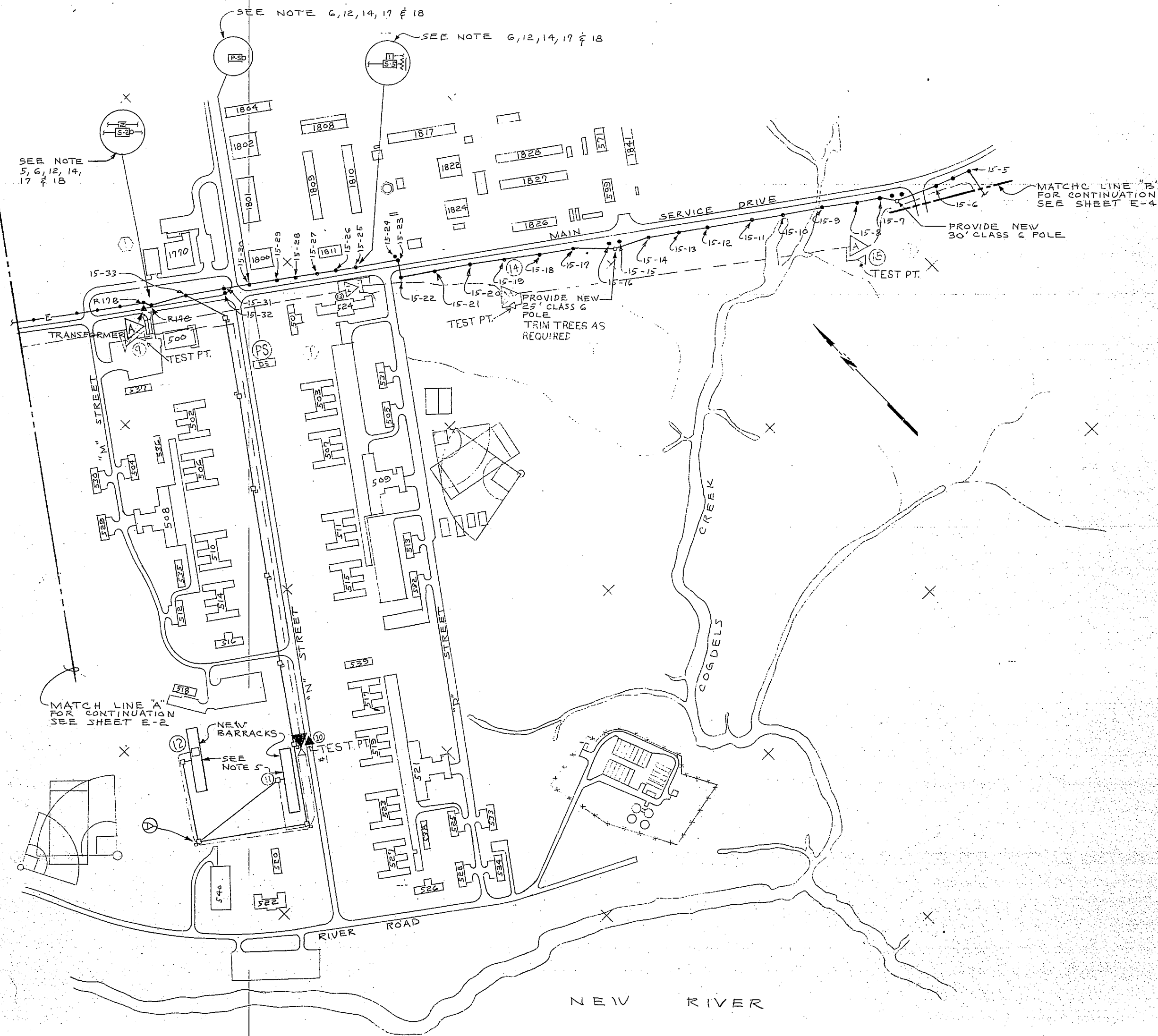
## NOTES (CONTINUED)

- PROVIDE ONE CABLE PER ANTENNA TO BLDG. #24.
- ALL HYBRID AMPLIFIERS SHALL BE ACTIVE (TWO-WAY) THROUGHOUT THE SYSTEM.
- PROVIDE A MINIMUM OF ONE SPARE PORT ON EACH AMPLIFIER.
- REPLACE EXIST. POWER SUPPLIES IN CONJUNCTION WITH NOTE 6.
- PROVIDE CONSTRUCTION TIME TABLE FOR APPROVAL.
- THE TDR SHALL BE NEW AT THE BEGINNING OF THE CONTRACT AND SHALL BE TURNED OVER AND BECOME PROPERTY OF THE GOVERNMENT (USAGE ELECTRONICS) AFTER PROOF OF PERFORMANCE TEST. A DATEN PURCHASE ORDER WITH MODEL NUMBER AND SERIAL NUMBER SHALL BE PROVIDED. THE TDR SHALL BE A TECTONIC MODEL 1503 WITH RECORDER OR EQUAL.

|   |  |
|---|--|
| EFD DWG. NO. 138761<br>JOB ORDER NO. 747D7488<br>DES. T. E. WHITE<br>DRWN. J. J. COPEL<br>TR.<br>CHK. G. T. N.<br>MR. MGR. J. J. COPEL<br>DCL. DIR. J. J. COPEL<br>SATISFACTORY TO DATE | DEPARTMENT OF THE NAVY<br>NAVAL FACILITIES ENGINEERING<br><b>ATLANTIC DIVISION</b><br>NAVAL STATION<br>MARINE CORPS BASE CAMP LEJEUNE<br><b>MASTER TELEVISION ANTENNA SYSTEM</b><br>LOCATION MAP - 10/1/68 |
| APPROVED DATE<br>[Signature]  | SCALE SPEC 05  |



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SEE NOTE 5, 6, 12, 14, 17 & 18

SEE NOTE 6, 12, 14, 17 & 18

SEE NOTE 6, 12, 14, 17 & 18

MATCH LINE "B" FOR CONTINUATION SEE SHEET E-4

PROVIDE NEW 30' CLASS C POLE

PROVIDE NEW 25' CLASS C POLE TRIM TREES AS REQUIRED

MATCH LINE "A" FOR CONTINUATION SEE SHEET E-2

NEW BARRACKS SEE NOTE 5



|   |  |
|---|--|
| <b>E-3</b>  |  |
| SPEC. ENG. NO. 12570<br>FOR ORDER NO. 747D7433<br>DES. T. E. WHITE<br>DRAWN J. J. COPEL<br>CHECKED G. L. N.<br>REC. DIR. 12/15/54<br>SATISFACTORY TO: _____ DATE: _____ | DEPARTMENT OF THE NAVY - NAVAL FACILITIES ENGINEERING DIVISION<br><b>ATLANTIC DIVISION</b><br>NAVAL STATION - NORFOLK, VA.<br>MARINE CORPS GARRISON CENTER<br><b>MASTER PLAN FOR ANTENNA SYSTEM</b><br>HADNOT PHONE AREA 3 2217<br>SID: F 80091<br>NAVY DRAWING NO. 4032<br>DESIGN CENTER NO. 11 |





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| 1         | ADD         |      |          |

| SIGNAL LEVEL READINGS  |                |
|--|----------------|
| CHANNEL READINGS TAKEN AT EXISTING HEADEND LOCATION USING DIPOLE ANTENNA |                |
| CHANNEL  | READING        |
| 3  | 386 MICROVOLTS |
| 6  | 1434 "         |
| 7  | 1520 "         |
| 9  | 460 "          |
| 12   | 1400 "         |

THESE READINGS ARE PRESENTED FOR ESTIMATING PURPOSES ONLY. CONTRACTOR SHALL VERIFY IN THE FIELD ALL SIGNAL LEVELS.

SEE NOTE G, 12, 14, 17 & 18

MATCH LINE "A" FOR CONTINUATION SEE SHEET E-3

|  |                                 |
|--|---------------------------------|
| <b>E-2</b>   |                                 |
| CPO DWG. NO. 138762<br>JOB ORDER NO. 74707488<br>DES. T.E. WHITE<br>DRWN. J.J. COPEL                     |                                 |
| DEPARTMENT OF THE NAVY<br><b>ATLANTIC DIVISION</b><br>NAVAL FACILITIES ENGINEERING COMMAND<br>NORFOLK VA |                                 |
| NAVAL STATION<br>MARINE CORPS BASE CAMP LEONINE N.   |                                 |
| <b>MASTER TELEVISION ANTENNA SYSTEM</b>  |                                 |
| HADNOT POINT AREA  |                                 |
| SIZE<br><b>F</b>   | CODE IDENT. NO.<br><b>80091</b> |
| DATE<br>4-25-52  | DRAWING NO.<br><b>40387</b>     |
| APPROVED<br>   | SCALE<br>1" = 100'              |

