

25

FIG.25 GRO

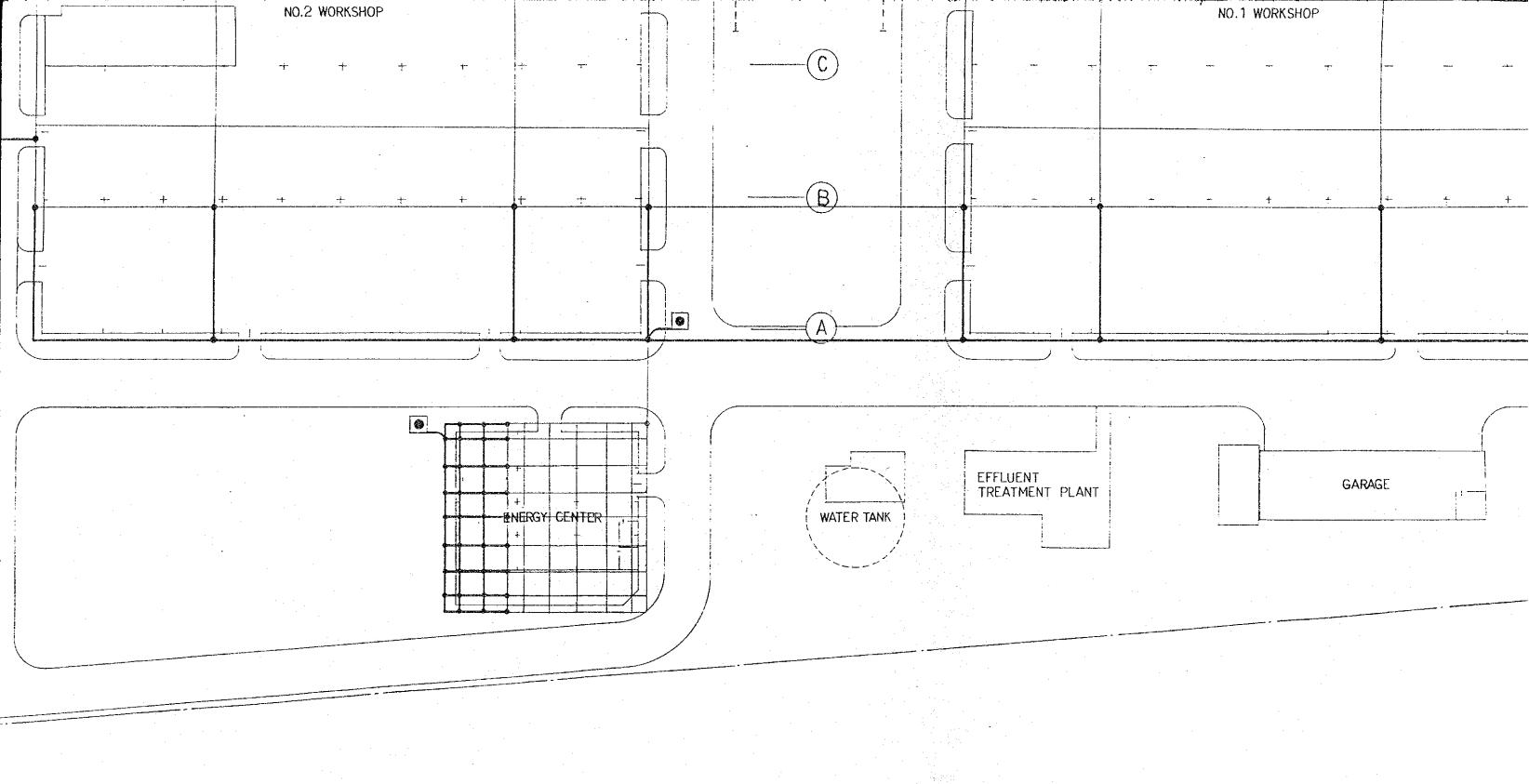
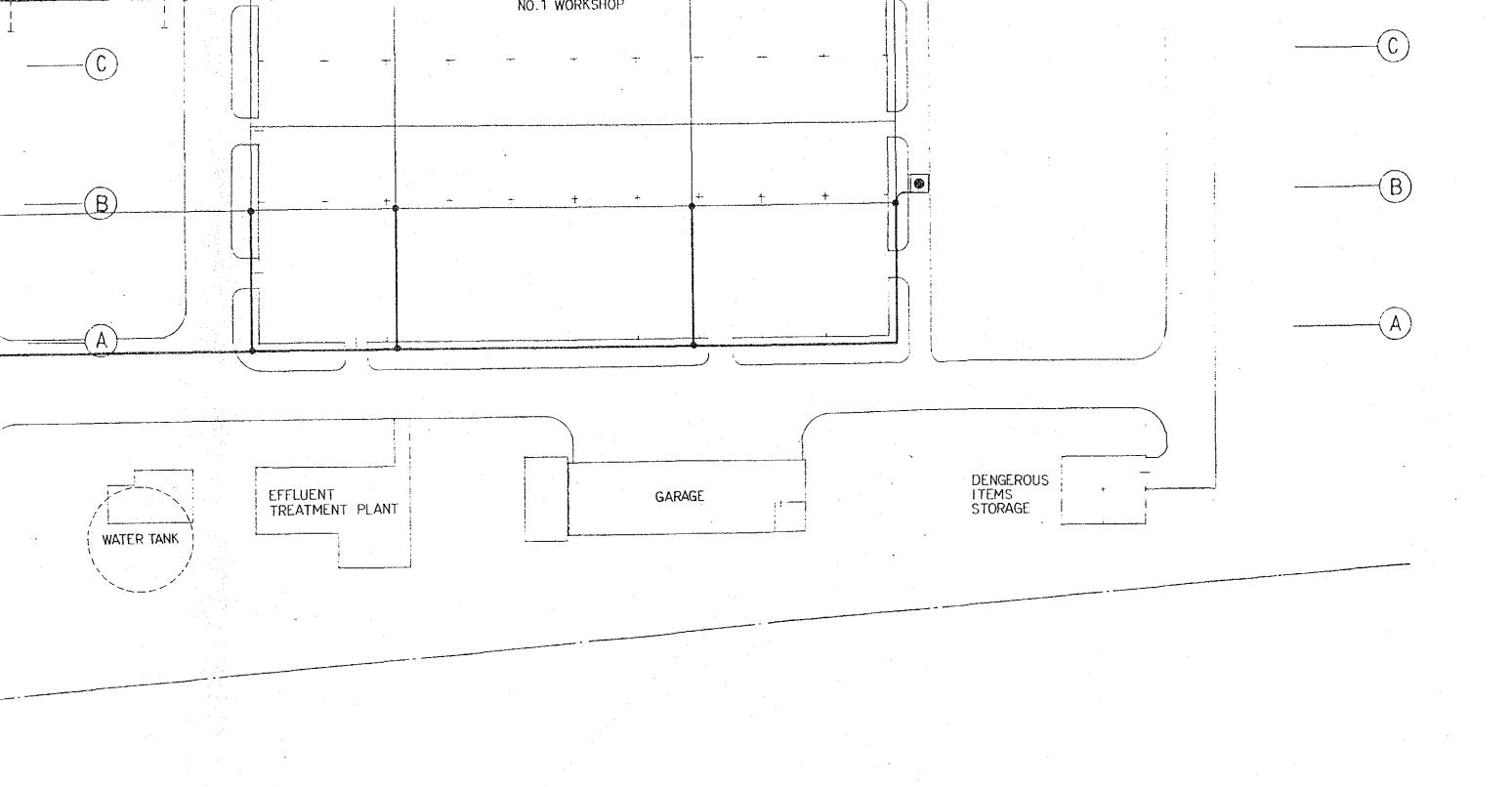
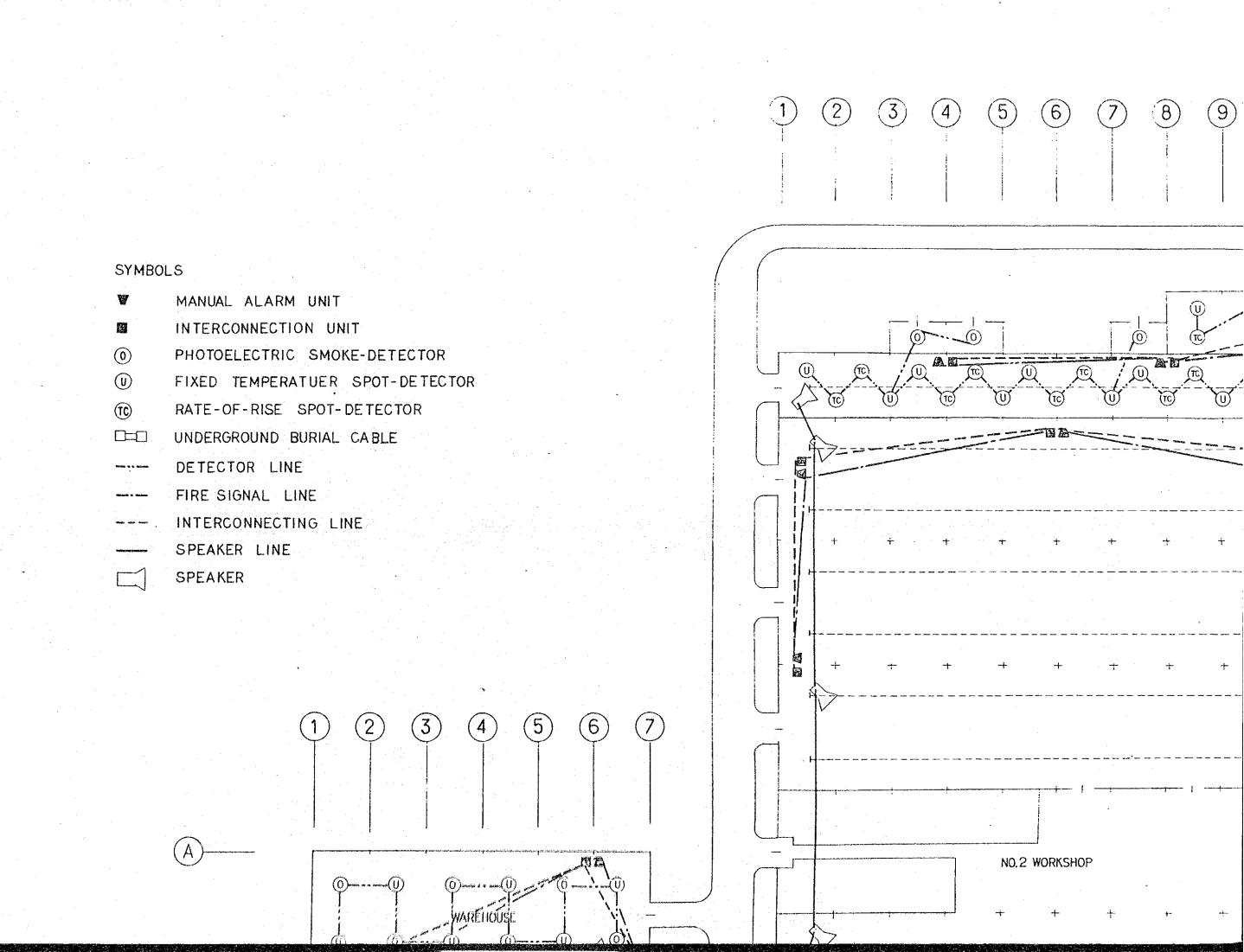
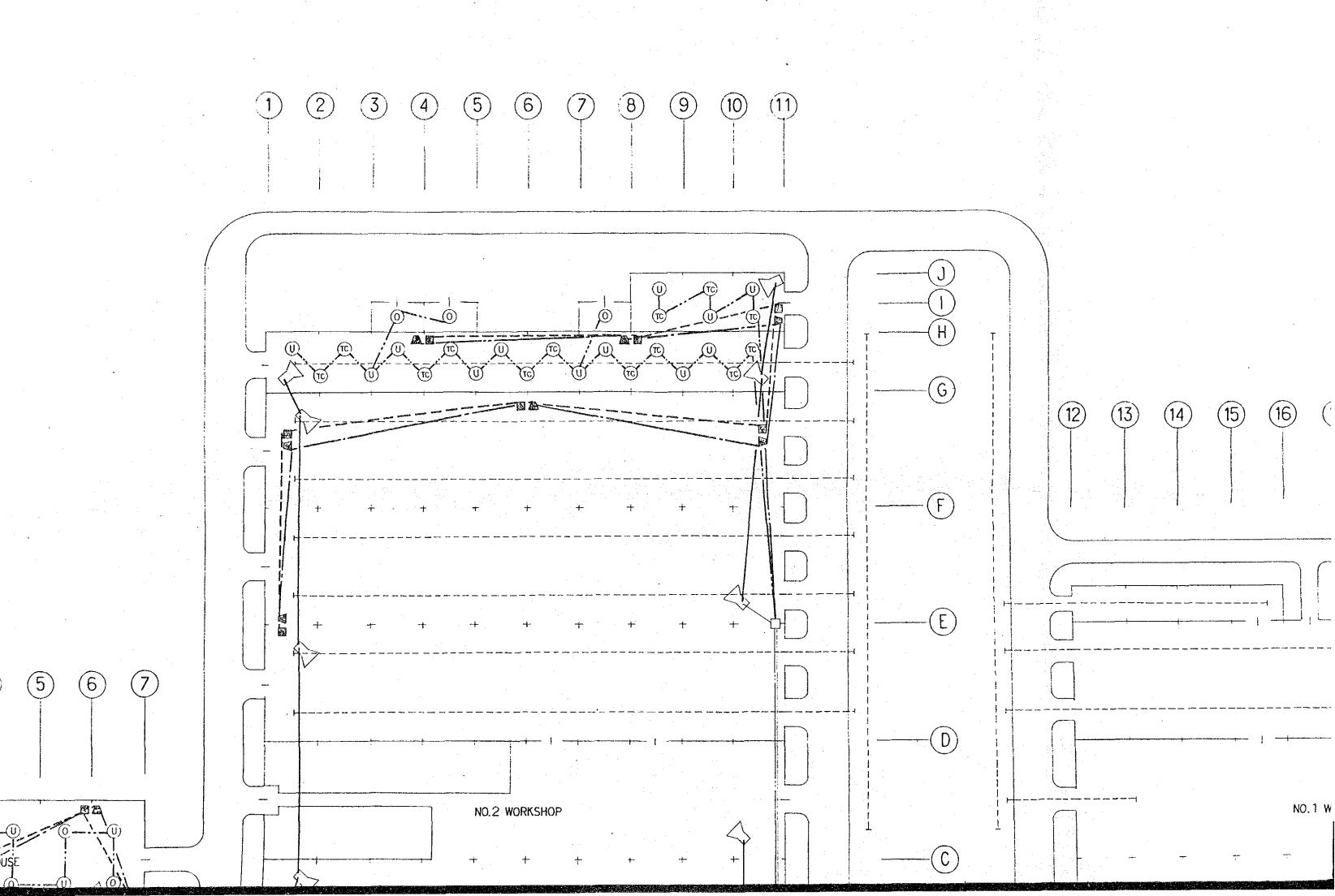


FIG.25 GROUNDING SYSTEM PLAN SCALE 1:500



AN SCALE 1:500





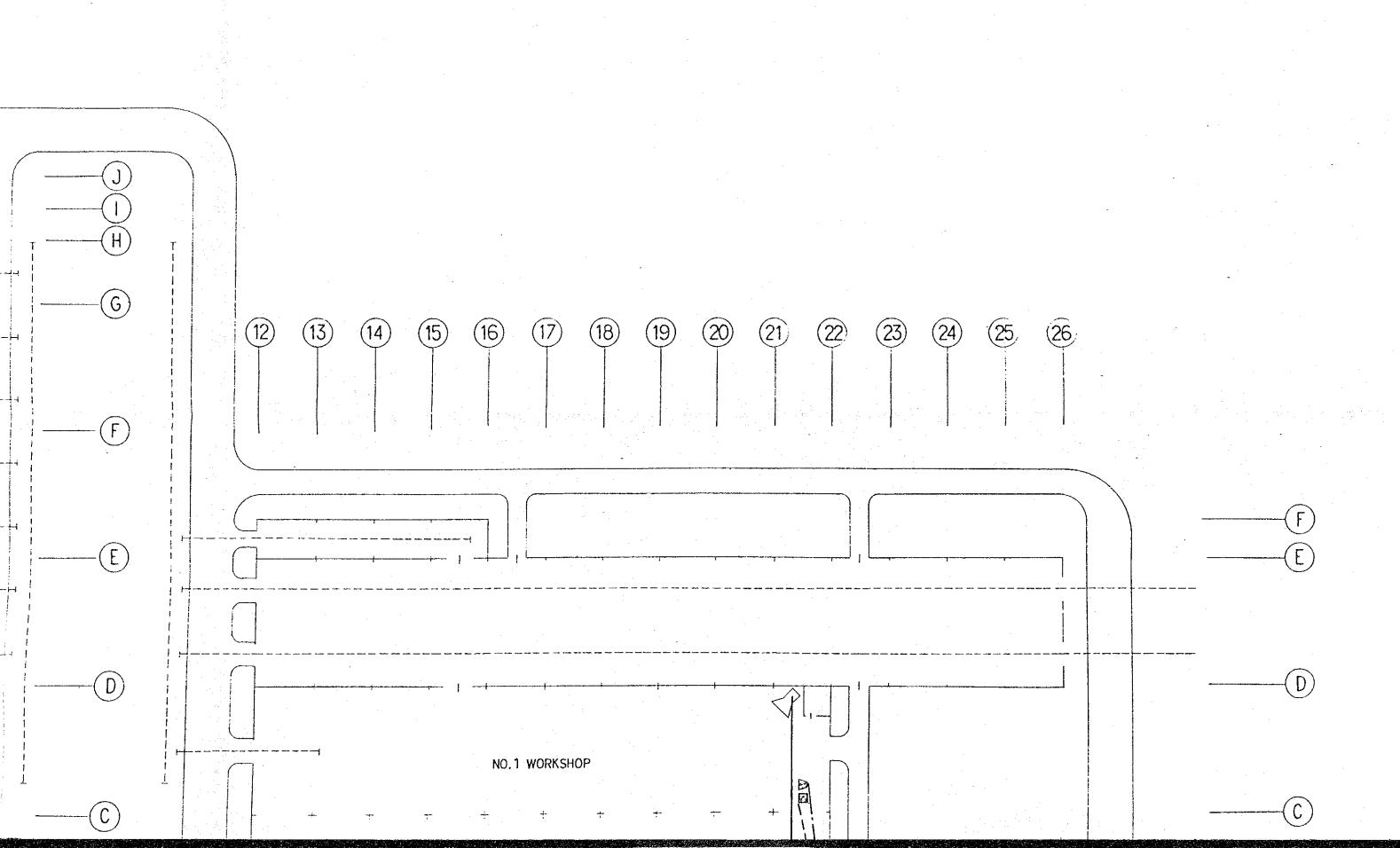


FIG.26 COMM

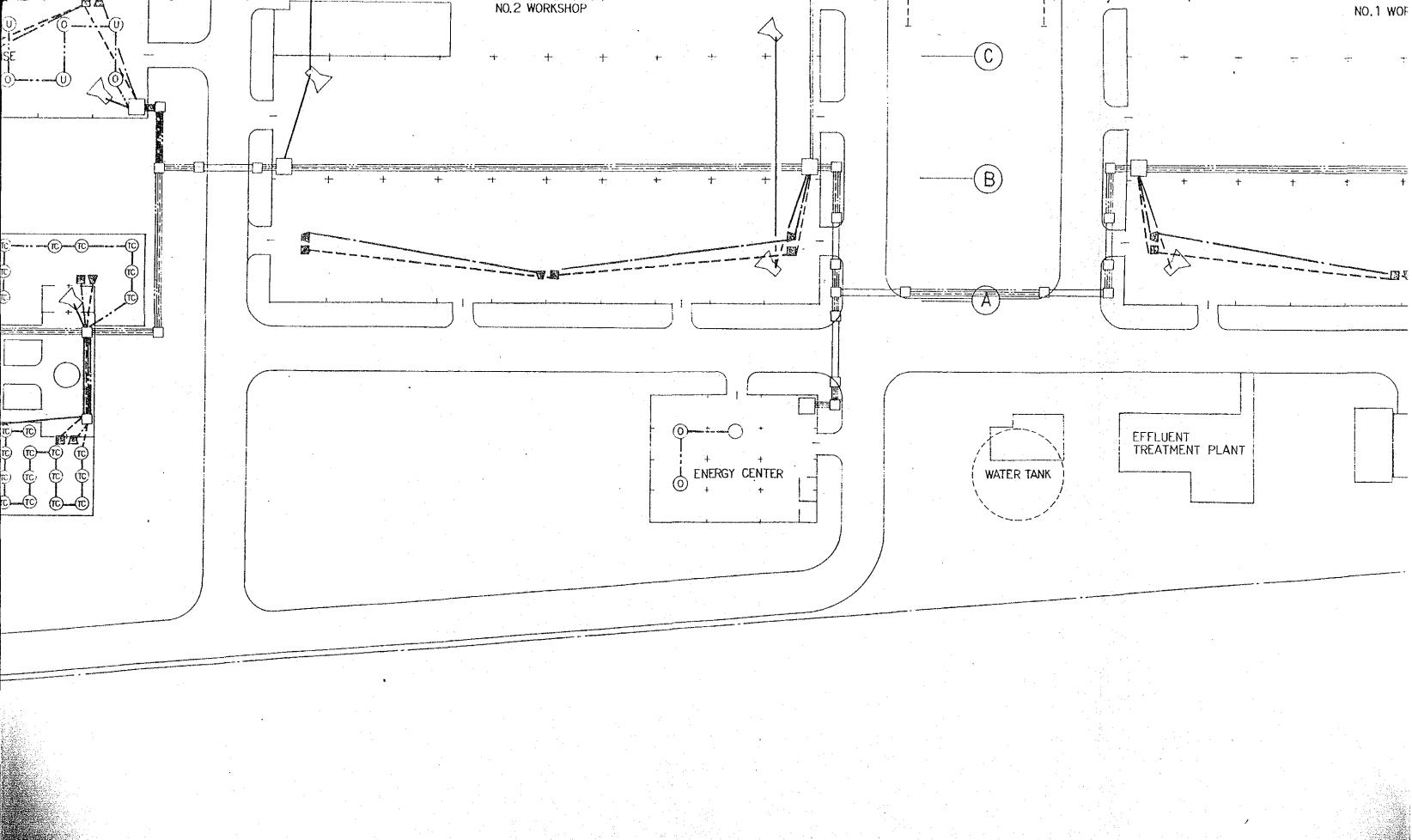
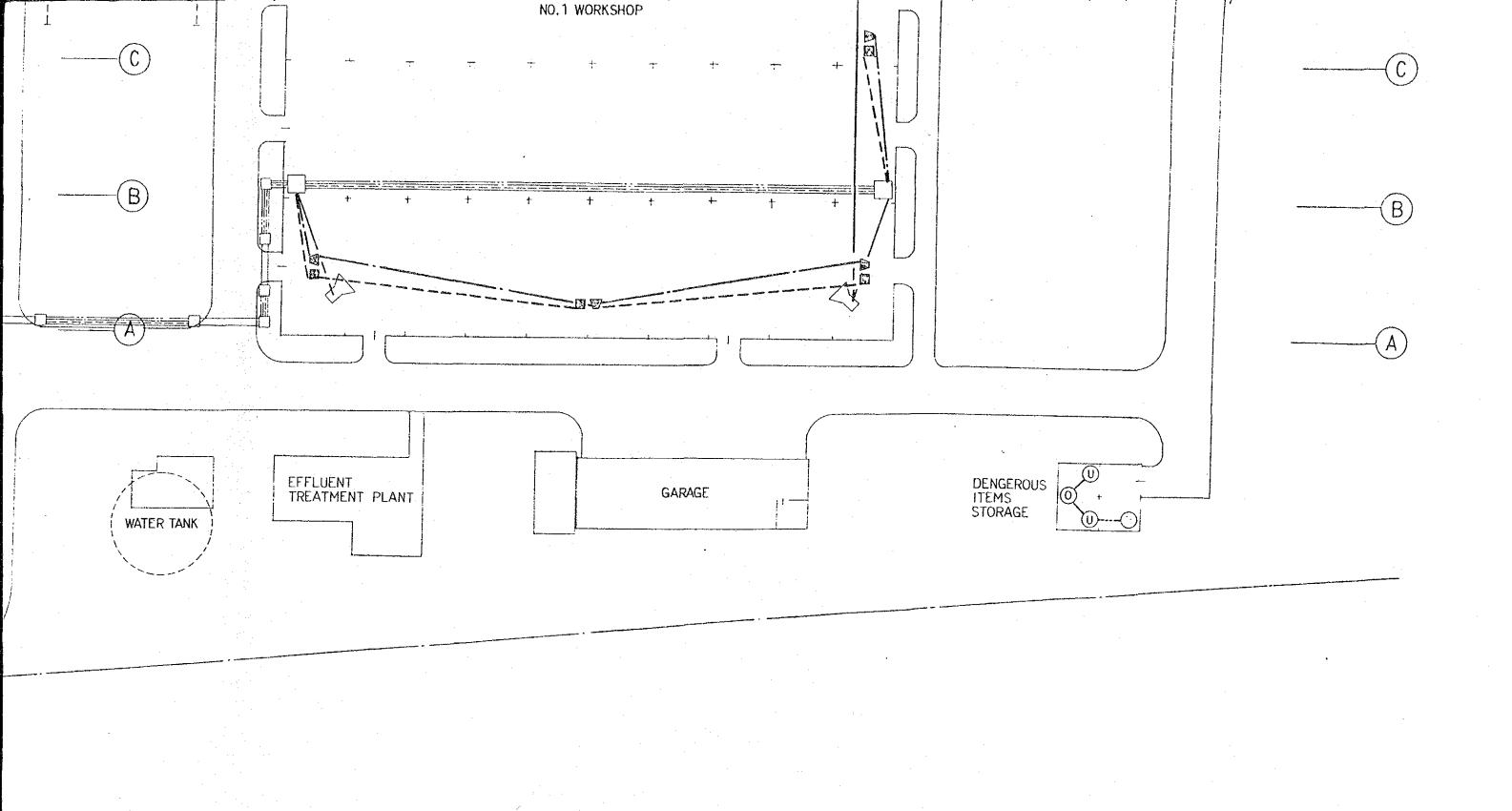
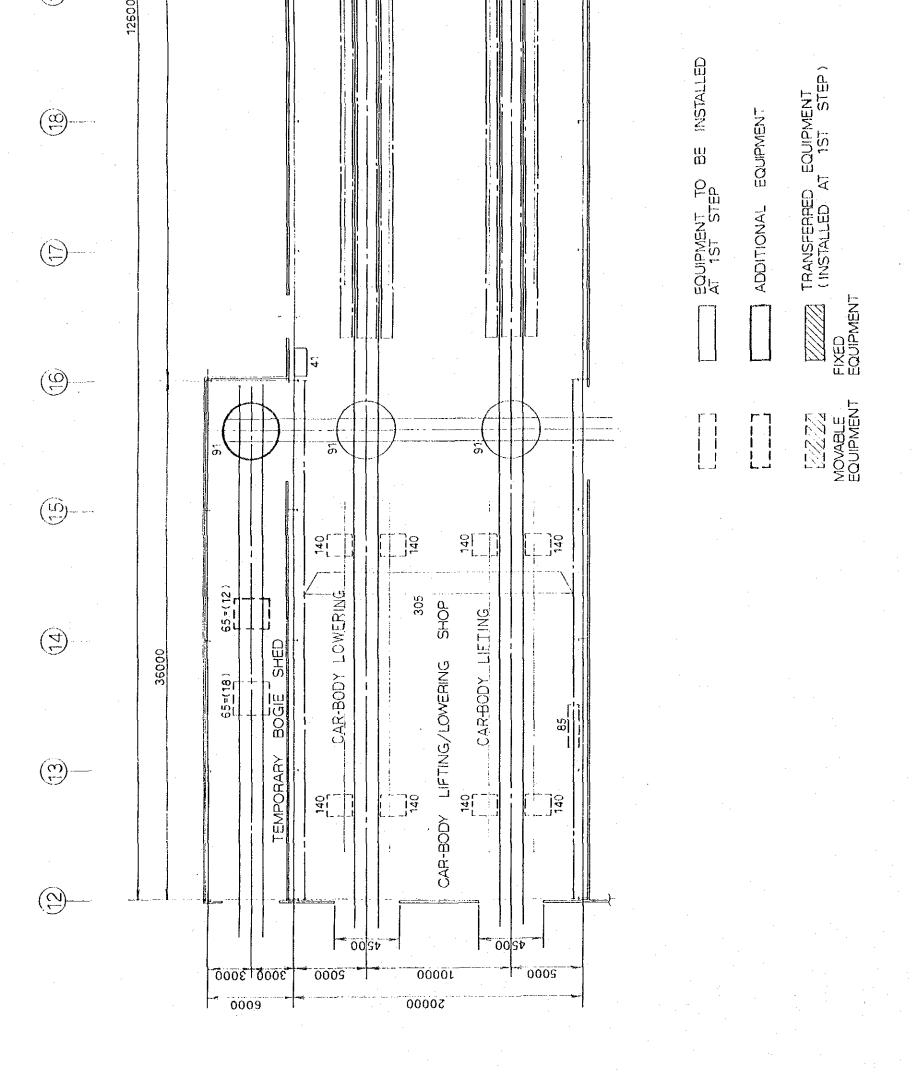


FIG.26 COMMUNICATION SYSTEM PLAN SCALE 1:500



TEM PLAN SCALE 1:500



1:25 SCALE LAYOUT PLAN (1/4) SLEAVING INSPECTION SHOP, LIFTING/LOWERING SHOP FIG. 27
MACHINE
ENTRANCE/
CAR-BODY

|              |       | (m)                |   |                                      |
|--------------|-------|--------------------|---|--------------------------------------|
| (0)          |       |                    | <br><del></del>                         | 4                                    |
| (2)          |       | 727                | *************************************** | 15: 314 314 154-4                    |
| (2)          |       |                    |   | 207154.3 1544 153 152<br>D D T D T D |
|              |       |                    |   | 43 211 209 208<br>23 23 23 33        |
| (3)—-        |       |                    | SHOP                                    |                                      |
| ( <u>S</u> ) | 00006 | NOICTION           | ENTRANCE/LEAVING INSPECTION SHOF        |                                      |
|              |       | LEAVING INSPECTION | ENTRANCE/LEAV                           | ENTRANCE                             |
| 126000       |       |                    |   |                                      |
|              |       |                    |   |                                      |

|  |             | 314    | AIR BRAKE TESTER                         |
|--|-------------|--------|--|
|  |             | 303    | UNDER FLOOR EQUIPMENT AIR BLAST FACILITY |
|  |             | 21.1   | MAIN CONTROLLER TESTER                   |
|  |             | 209    | MAIN RECTIFIER TESTER                    |
|  |             | 208    | RUNNING RECORD ANALYSER                  |
|  |             | 207    | ELECTRIC CAR<br>PERFORMANCE TESTER       |
|  |             | 154-4  | DIELECTRIC STRENGTH TESTER               |
|  |             | 1543   | DIELECTRIC STRENGTH TESTER               |
| BOGIE TURNTABLE                        |             | 154-1  | STRENGTH                                 |
| 5 TEMPORARY BOGIE                      | 30          | 153    | INSURATION RESISTANCE TESTER             |
| $\stackrel{>}{\alpha}$                 |             | 152    | NE<br>CE TESTER                          |
| 5 2 TON TRAVELLING CRANE               |             | 151    | CAR . W                                  |
| D LIFTING JACK                         | ω           | 72     | lπ                                       |
| 1 BOGIE TURN TABLE                     | N           | 43     | VACUUM CLEANER                           |
| SCAFFOLDING CAR<br>FOR CAR BODY REPAIR | •           | 41     | AIR COMPRESSOR                           |
| CAR-BODY LIFTING/LOWERING SHOP         | Ū.          | EN I   | ENTRANCE/LEAVING INSPECTION SHOP         |
| NAME OF EQUIPMENT                      | Q<br>T<br>Z | O<br>Z | NAME OF EQUIPMENT                        |

305

140

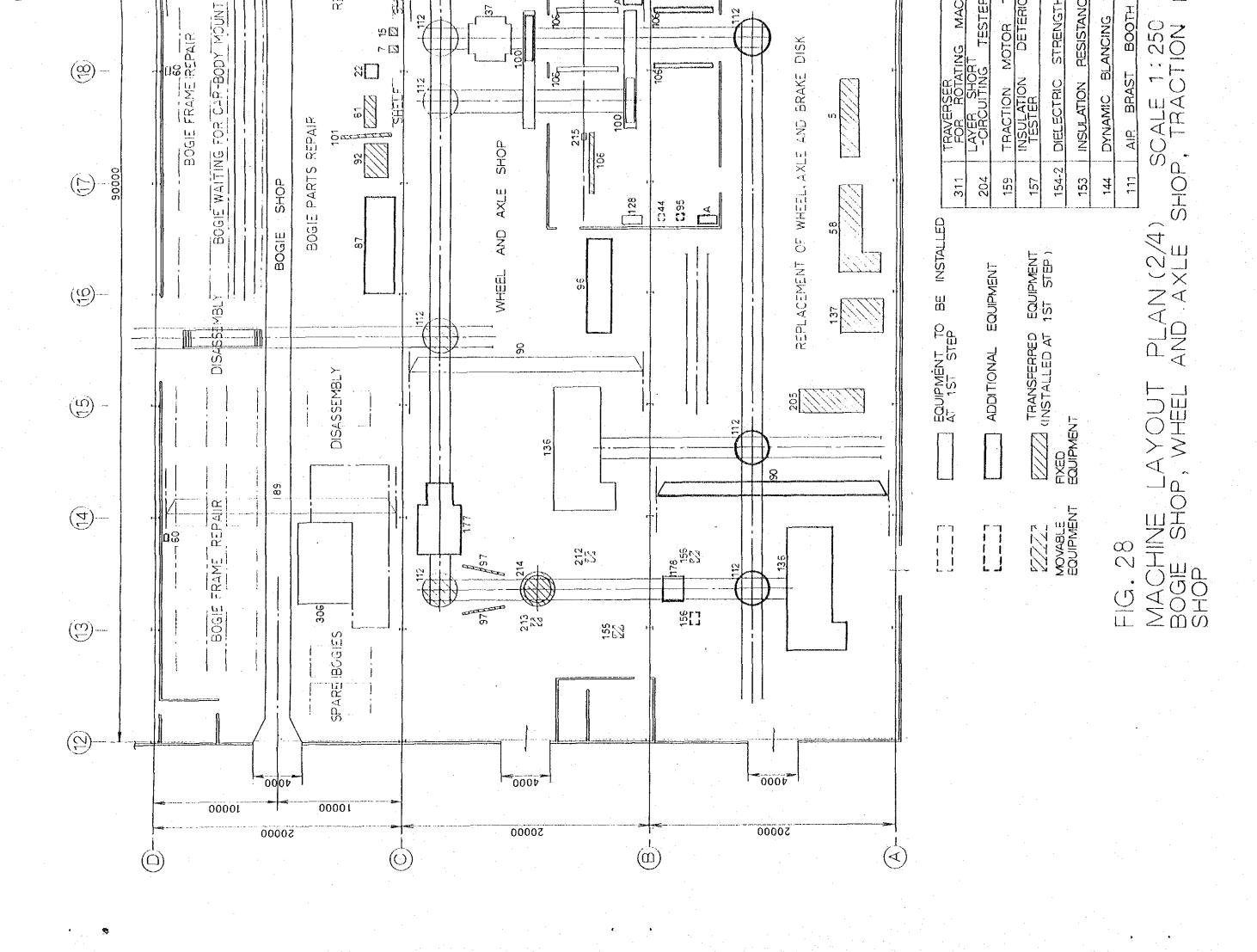
91

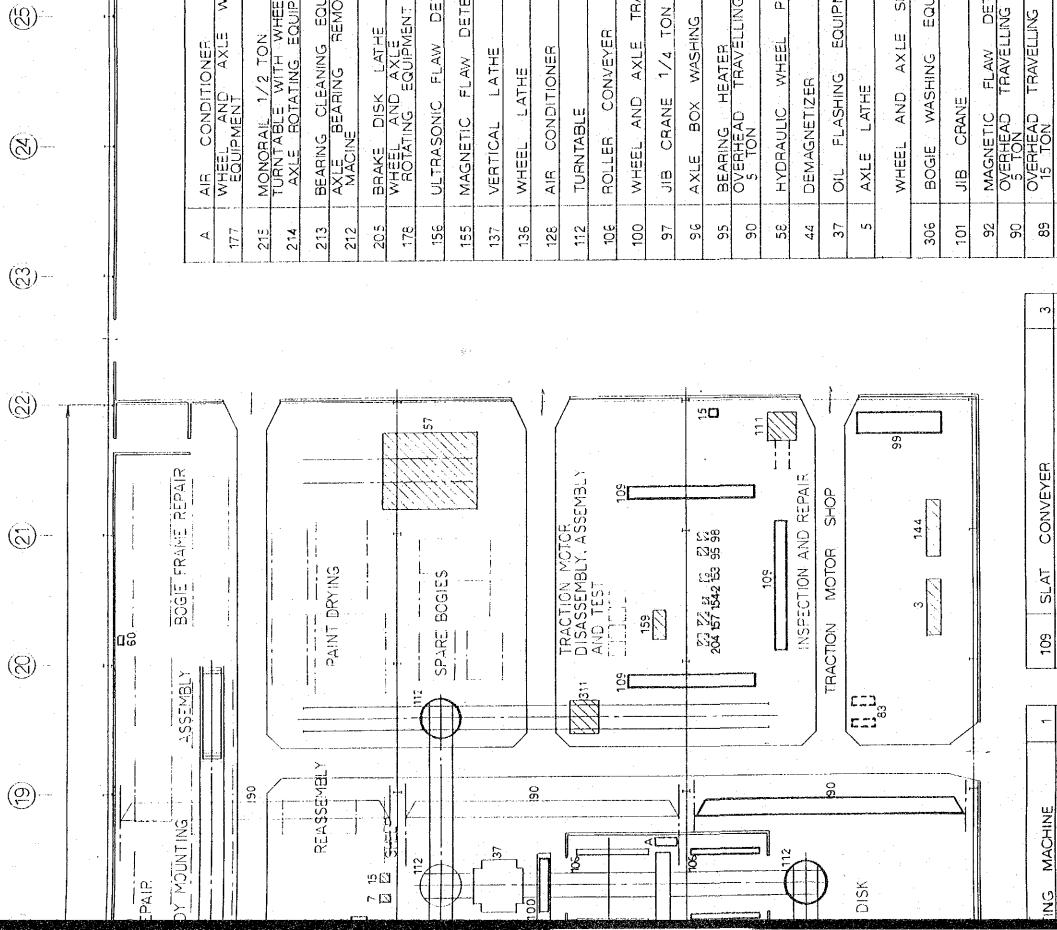
<u>و</u>

SHOP

1:250

ED





(8)

| -1 |               |               |                               |               |                                 |                   |                          | 1     | I                   |                   |  |
|----|---------------|---------------|-------------------------------|---------------|---------------------------------|-------------------|--------------------------|-------|---------------------|-------------------|--|
|    |               |               |                               |               | ,                               |                   |                          |       | <del></del>         |                   |  |
|    | ო             | -             | -                             | -1            | . •                             | 2                 | -                        | . 4   |                     | Ω<br>YTY          |  |
|    | SLAT CONVEYER | PARTS CLEANER | AXLE BEARING INDUCTION HEATER | PINION HEATER | OVERHEAD TRAVELLING CRANE 5 TON | LOW PLATFORM CART | PEDESTAL GRINDNG MACHINE | LATHE | TRACTION MOTOR SHOP | NAME OF EQUIPMENT |  |
|    | 109           | 66            | 98                            | 95            | 8                               | 83                | <del>ا</del> ت           | ო     |                     | O<br>N            |  |

TESTER

MOTOR TESTER DETERIORATION

TESTER

RESISTANCE

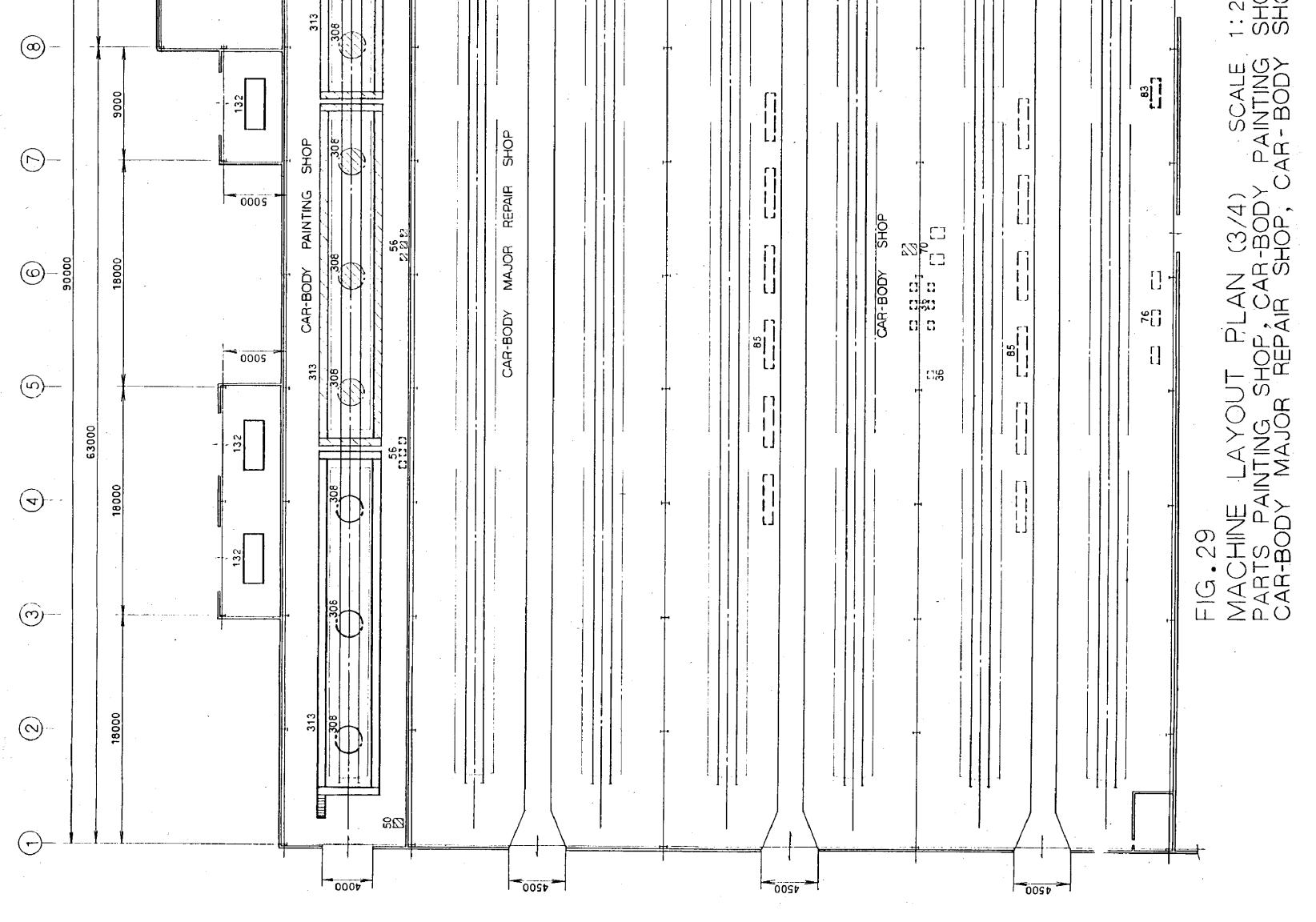
ANCING MACHINE

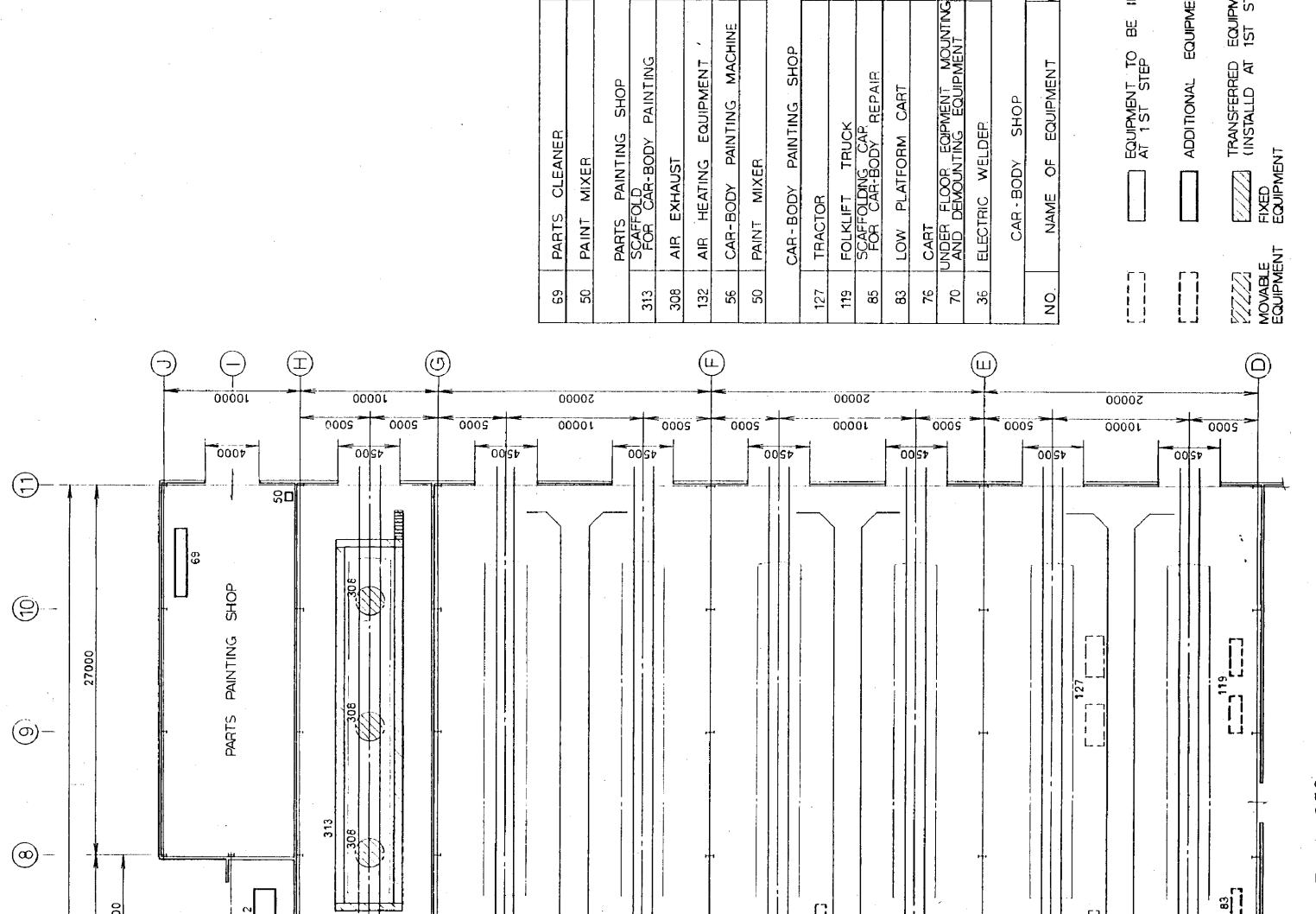
ВООТН

MOTOM

: 250 TON

| ₹ [           | WHEEL AND AXLE WASHING   | 4 -        |
|---------------|--|------------|
| ~             | 7 11 2   | -          |
| ئة <b>ئ</b> ة | MONORAL 1/2 TON<br>TURNTABLE WITH WHEEL AND<br>AXLE ROTATING EQUIPMENT |            |
| 13            | CLEANING   | ·          |
| 12            | LE BEARIN<br>JACINE  | -          |
| 20.5          |  | - 4-       |
| 78            | WHEEL AND AXLE<br>ROTATING EQUIPMENT                                   | , <b>,</b> |
| 56            | ULTRASONIC FLAW DETECTOR   | 7          |
| 55            | MAGNETIC FLAW DETECTOR   | <b>r</b> - |
| 37            | VERTICAL LATHE   | -          |
| 36            | WHEEL LATHE  | 01         |
| 28            | AIR CONDITIONER  |            |
| 112           | TURNTABLE  | ထ          |
| 10 e          | ROLLER CONVEYER  | ທ          |
| 00            | WHEEL AND AXLE TRAVERSEP   | 2          |
| 76            | JIB CRANE 1/4 TON  | 0          |
| 0             | BOX WA   | -          |
| 95            | ADING IT   | <b>v</b> - |
| . 06          |  | m          |
| 58            | HYDRAULIC WHEEL PRESS  | 7          |
| 4.6           | <b>4</b>   | <b>5-4</b> |
| 37            | OIL FLASHING EQUIPMENT   | -          |
| S             | AXLE LATHE   | -          |
|               | WHEEL AND AXLE SHOP  |            |
| 306           | BOGIE WASHING EQUIPMENT  |            |
| 101           | JIB CRANE  |            |
| 35            | MAGNETIC FLAW DETECTOR   |            |
| 8             | TRAVELLING   | ·          |
| 89            | OVERHEAD TRAVELLING CRANE<br>15 TON                                    | ٠-         |
| 87            | PARTS CLEANER  | ,-         |
| 61            | SPRING TESTER  |            |
| 99            | ELECTRIC ARC WELDER  | m          |
| 57            | BOGIE PAINTING EQUIPMENT   |            |
| 22            | HYDRAULIC PRESS  |            |
| 15            | PEDESTAL GRINDNG MACHINE   | -          |
| 7             | UPRIGHT DRILLING MACHINE   | -          |
|               | BOGIE SHOP   |            |
| Q             | NAME OF EQUIPMENT D  | 7          |
|               |  |            |





m

PAINTING

SHOP

G

ന

EQUIPMENT

9

PAINTING MACHINE

SHOP

PAINTING

12

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1:250 SHOP, SHOP

EQUIPMENT TO BE INSTALLED AT 1 ST STEP

EQUIPMENT

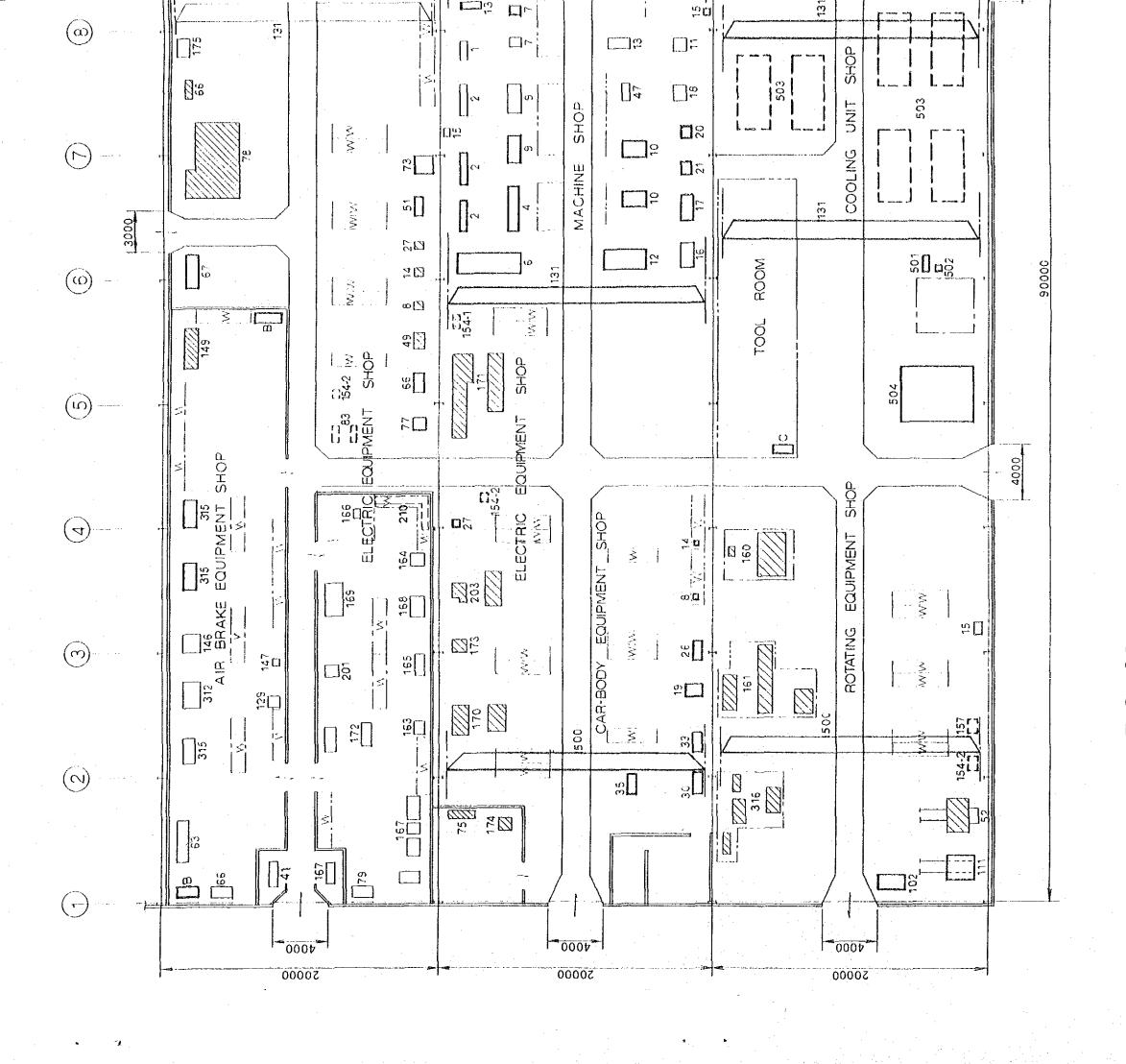
Q

SHOP

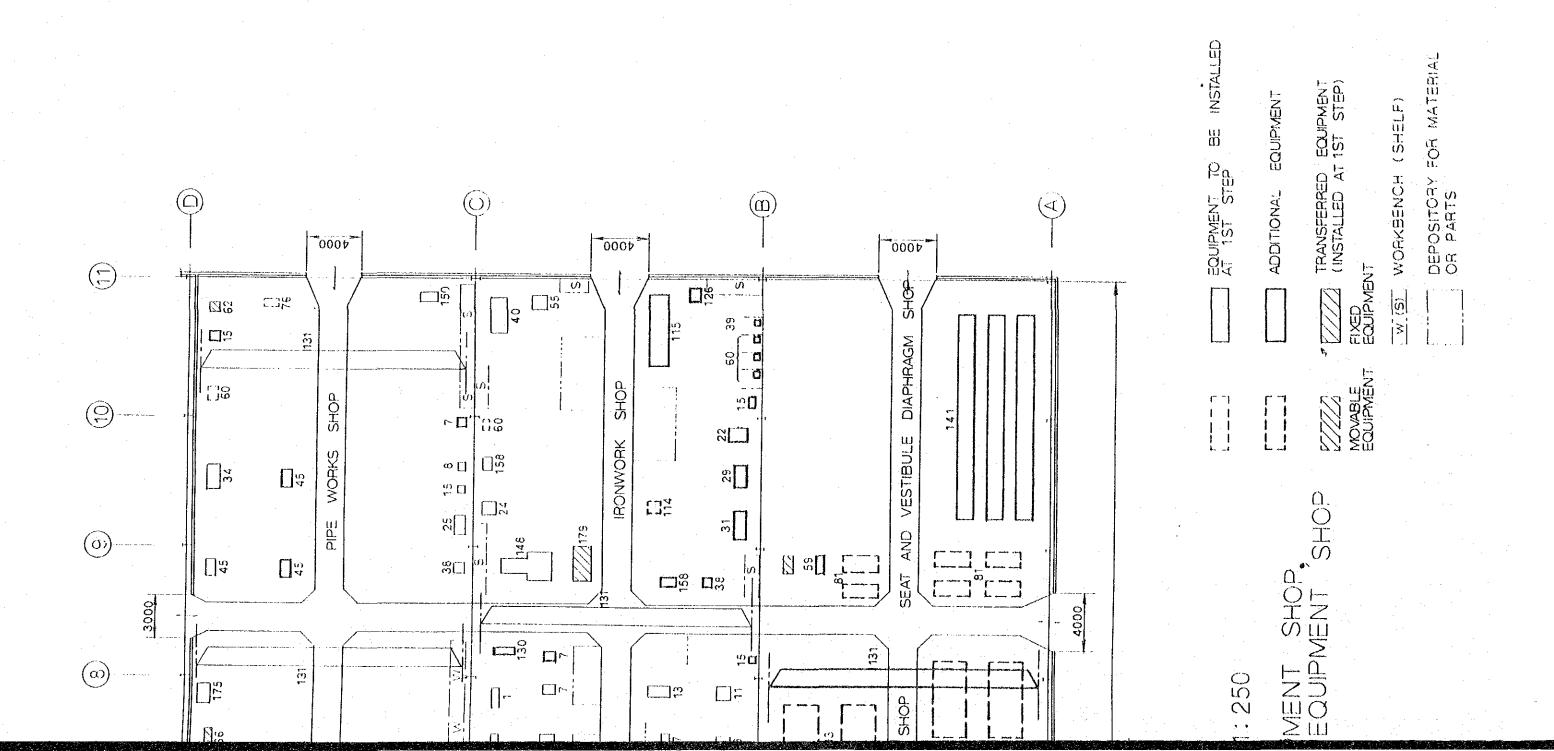
EQUIPMENT

ADDI TIONAL

TRANSFERRED (INSTALLD AT



AIR BRAKE EQUIPMENT SHOP, ROTATING EQUIP 1:250 SCALE PLAN (4/4) ELECTRIC EQUIPMENT SHOP, MACHINE SHOP, IRONWORK AND OTHERS MACHINE E.30



| -                   | ပ္               | 2                         | SHOP                      | . r<br>- ら                  | ភាភ                            |         |         | 2                                  |           | -     | -                 |                          | <b></b> -       | <br>                            |                            | -           | -                       |             |                           |               | -                                 |      | <b>v</b>                  |                 | က                 | -      |                           |                 | )<br>1            |
|---------------------|------------------|---------------------------|---------------------------|-----------------------------|--------------------------------|---------|---------|------------------------------------|-----------|-------|-------------------|--------------------------|-----------------|---------------------------------|----------------------------|-------------|-------------------------|-------------|---------------------------|---------------|-----------------------------------|------|---------------------------|-----------------|-------------------|--------|---------------------------|-----------------|-------------------|
| T STORING EQUIPMENT | AT TRANSFEP CART | INDUSTRIAL SEWING MACHINE | AND VESTIBULE DIAPHRAGM S | COOLING UNIT TEST EQUIPMENT | COOLING UNIT REPAIRING CARRIER | EXHAUST | MACHINE | OVERHEAD TRAVELLING CRANE<br>2 TON | UNIT SHOP | 3 TON | COMPRESSOR TESTER | MOTOR ALTAERNATOR TESTER | TESTING MACHINE | INSULATION DETERIORATION TESTER | DIELECTRIC STRENGTH TESTER | BLAST BOOTH | FILTER CLEANING MACHINE | DRYING OVEN | PEDESTAL GRINDING MACHINE | EQUIPMENT SHO | VERHEAD TRAVELLING CRANE<br>2 TON | 1    | HYDRAULIC PRESSURE TESTER | ELECTRIC WELDER | THREADING MACHINE | BENDER | PEDESTAL GRINDING MACHINE | PIPE WORKS SHOP | NAME OF EQUIPMENT |
| SEAT                | SE/              | N<br>N                    | EAT A                     | 8                           | 8                              | AIR     | J       | 02                                 |           | 38    | AIR               | MO                       | FAN             | INS                             |                            | AIR         | AIR                     | DRY         | PED                       | 8             | OVE<br>2                          | CART | H                         |                 | 보                 | PIP I  | PED                       |                 |                   |
| 141                 | 81               | 53                        | S                         | 504                         | 503                            | 505     | 501     | 131                                |           | 500   | 316               | 161                      | 160             | 157                             | 154-2                      | 111         | 102                     | 52          | <u>.</u><br>ਨੇ            |               | 131                               | 76   | 62                        | 9               | 45                | 34     | 15                        |                 | S                 |

| -                 |           |                     | <b>*</b>           | -               | <del>t"</del>       | <u>.                                    </u> | 4                         | •                        |                |                        | 2                          | *                     | -                             |       | <u>-</u>                          | -                 | -                | 4                  |            | -                         |                         | 2                | -                            | -               |                     | -                          |                    | 2                            | <b>*</b>                 | 4                          |               | IQTY                    |
|-------------------|-----------|---------------------|--------------------|-----------------|---------------------|--|---------------------------|--------------------------|----------------|------------------------|----------------------------|-----------------------|-------------------------------|-------|-----------------------------------|-------------------|------------------|--------------------|------------|---------------------------|-------------------------|------------------|------------------------------|-----------------|---------------------|----------------------------|--------------------|------------------------------|--------------------------|----------------------------|---------------|-------------------------|
| C AIR CONDITIONER | TOOL ROOM | 35 NIBBLING MACHINE | 33 BENDING MACHINE | 30 BENDING ROLL | 26 SHEARING MACHINE | 19 CRANK PRESS                               | 14 BENCH GRINDING MACHINE | 8 BENCH DRILLING MACHINE | CAR-BODY EQUIF | 179 ASSEMBLING MACHINE | 158 MAGNETIC FLAW DETECTOR | 150 OIL DUMPER TESTER | 148 TIGHT LOCK COUPLER TESTER | 2 TON | 126 AUTOMATIC GAS CUTTING MACHINE | 115 PARTS CLEANER | 114 RUST REMOVER | 60 ELECTRIC WELDER | 55 FURNACE | 40 PNEUMATIC POWER HAMMER | 39 ALGON GAS ARC WELDER | 38   SPOT WELDER | 31 PUNCHING/SHEARING MACHINE | 29 BENDING ROLL | 25 SHEARING MACHINE | 24 HYDRAULIC PRESS 100 TON | 22 HYDRAULIC PRESS | 15 PEDESTAL GRINDING MACHINE | 8 BENCH DRILLING MACHINE | 7 UPRIGHT DRILLING MACHINE | IRONWORK SHOP | NC. I NAME OF EQUIPMENT |

(FIG. 30) TABLE FIG.31 MACHINE NAME

| 131 OVERHEAD TRAVELLING CRANE 130 CENTERING MACHINE 21 DAILL GRINDING MACHINE 220 GRINDING MACHINE 230 GRINDING MACHINE 240 GRINDING MACHINE 250 GRINDING MACHINE 250 GRINDING MACHINE 251 DAILC GRINDING MACHINE 252 GRINDING MACHINE 253 GRINDING MACHINE 254 CALINDING MACHINE 255 GRINDING MACHINE 255 GRINDING MACHINE 256 GRINDING MACHINE 257 HORIZONTAL BORING MACHINE 258 CAPECA MILLING MACHINE 259 RADIAL DRILLING MACHINE 260 LATHE 2.000 27 UNIVERSAL MILLING MACHINE 27 UNIVERSAL MILLING MACHINE 28 RADIAL DRILLING MACHINE 29 RADIAL DRILLING MACHINE 29 RADIAL DRILLING MACHINE 2000 200 LATHE 2.000 20 LATHE 2.000 20 LATHE 1.000 21 LATHE 6.50 22 LATHE 1.000 2312 LATHE 1.000 2312 LATHE 1.000 24 LATHE 6.50 25 LATHE 1.000 26 LATHE 1.000 27 UPRIGHT DRILLING MACHINE 28 AIR BRAKE VALVE TESTER 29 MIPER TESTER 29 WIPER TESTER 29 WIPER TESTER 20 ULTRASONIC WASHING EQUIPMENT 29 ULTRASONIC WASHING EQUIPMENT 20 NAME OF FOILIPMENT 21 AIR COMPRESSOR |
|--|
|  |

|               | <b>.</b>                      | <b>-</b>                   | <b>*</b> *-       | <b>y</b>      | ***      | <b>*</b>                       | *                                 |                       | <b>4</b>             | -        |     |                   | -                             | 4        | <b>,</b> -                      |                                  | 2                                | -                                  | <b>*</b>        | 7                    |                      | -                      | <b>r</b>         | +-                          | <b>V</b>                     | 2                           |                    |                               | 2                  |                             | -                        | -                       | O,T                   |
|---------------|-------------------------------|----------------------------|-------------------|---------------|----------|--------------------------------|-----------------------------------|-----------------------|----------------------|----------|-----|-------------------|-------------------------------|----------|---------------------------------|----------------------------------|----------------------------------|------------------------------------|-----------------|----------------------|----------------------|------------------------|------------------|-----------------------------|------------------------------|-----------------------------|--------------------|-------------------------------|--------------------|-----------------------------|--------------------------|-------------------------|-----------------------|
| WELLING CRANE | 210 APPARATUSES AND MEASURING | 203 MAIN CONTROLLER TESTER | LESS RELAY TESTER | THIC POWER SO | CAPACITY | OWER SOURCE DEV<br>FOR TESTING | 172 VACUUM CIRCUIT BREAKER TESTER | MAIN RECTIFIER TESTER | 170 EQUIPMENT TESTER | W TESTER | - 1 | 167 A.T.S. TESTER | 166 LIGHTNING ARRESTER TESTER | MAGNETIC | 164 APPARATUS METER CALIBRATING | 163 SPEEDOMETER GENERATOR TESTER | 154-2 DIELECTRIC STRENGTH TESTER | 154-1 : DIELECTRIC STRENGTH TESTER | TON TANELLING C | 83 LOW PLATFORM CART | 79 : AIR CONDITIONER | 78 I WASHING EQUIPMENT | 77 PARTS CLEANER | 75 WATER PURIFING EQUIPMENT | 73 ELECTRIC COIL DRYING OVEN | 66 DUST ARRESTING EQUIPMENT | 51 COILING MACHINE | 49 SOFT GRIT BLASTING MACHINE | 27 BUFFING MACHINE | 14   BENCH GRINDING MACHINE | 8 BENCH DRILLING MACHINE | ELECTRIC EQUIPMENT SHOP | NO. NAME OF EQUIPMENT |

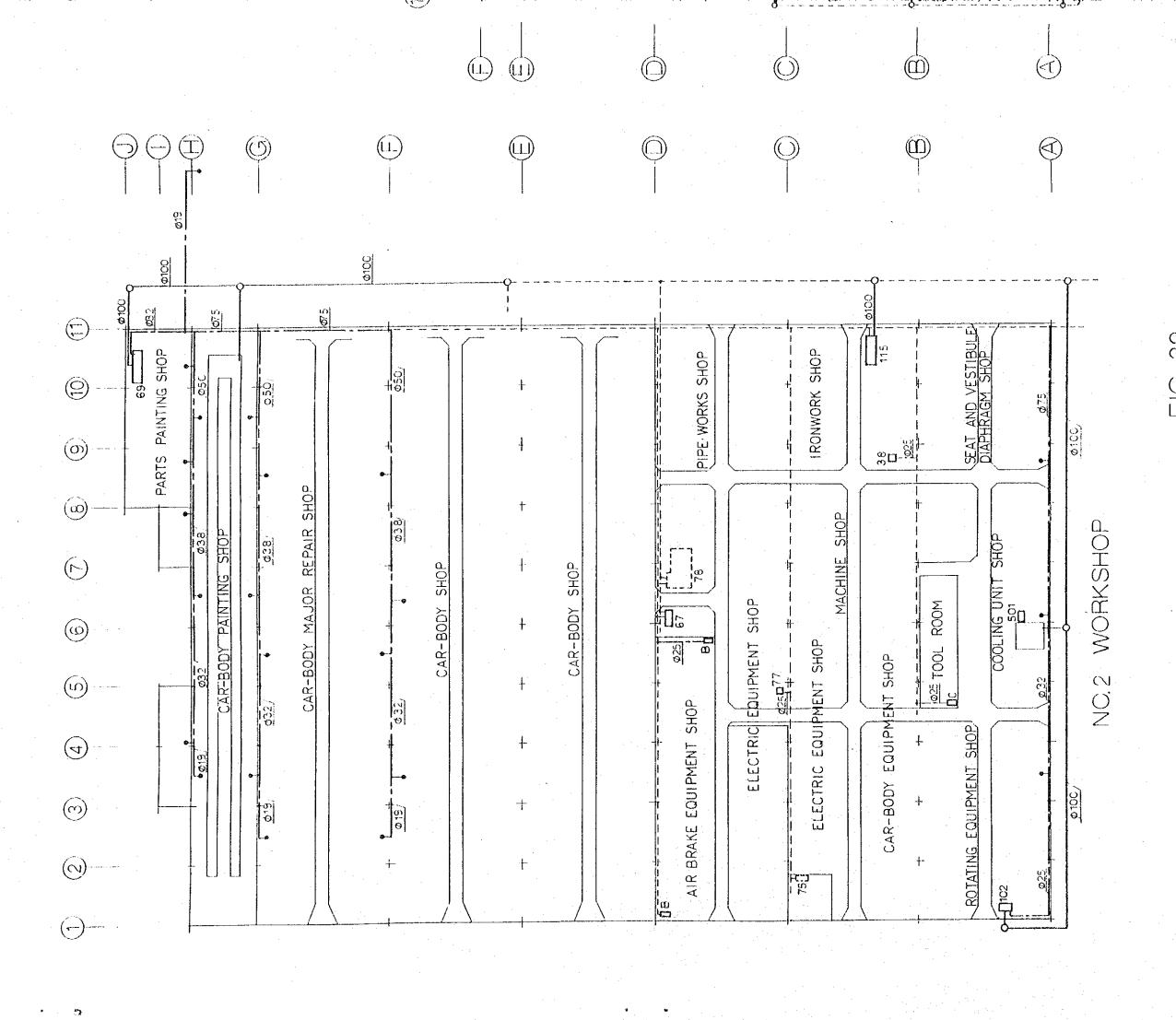
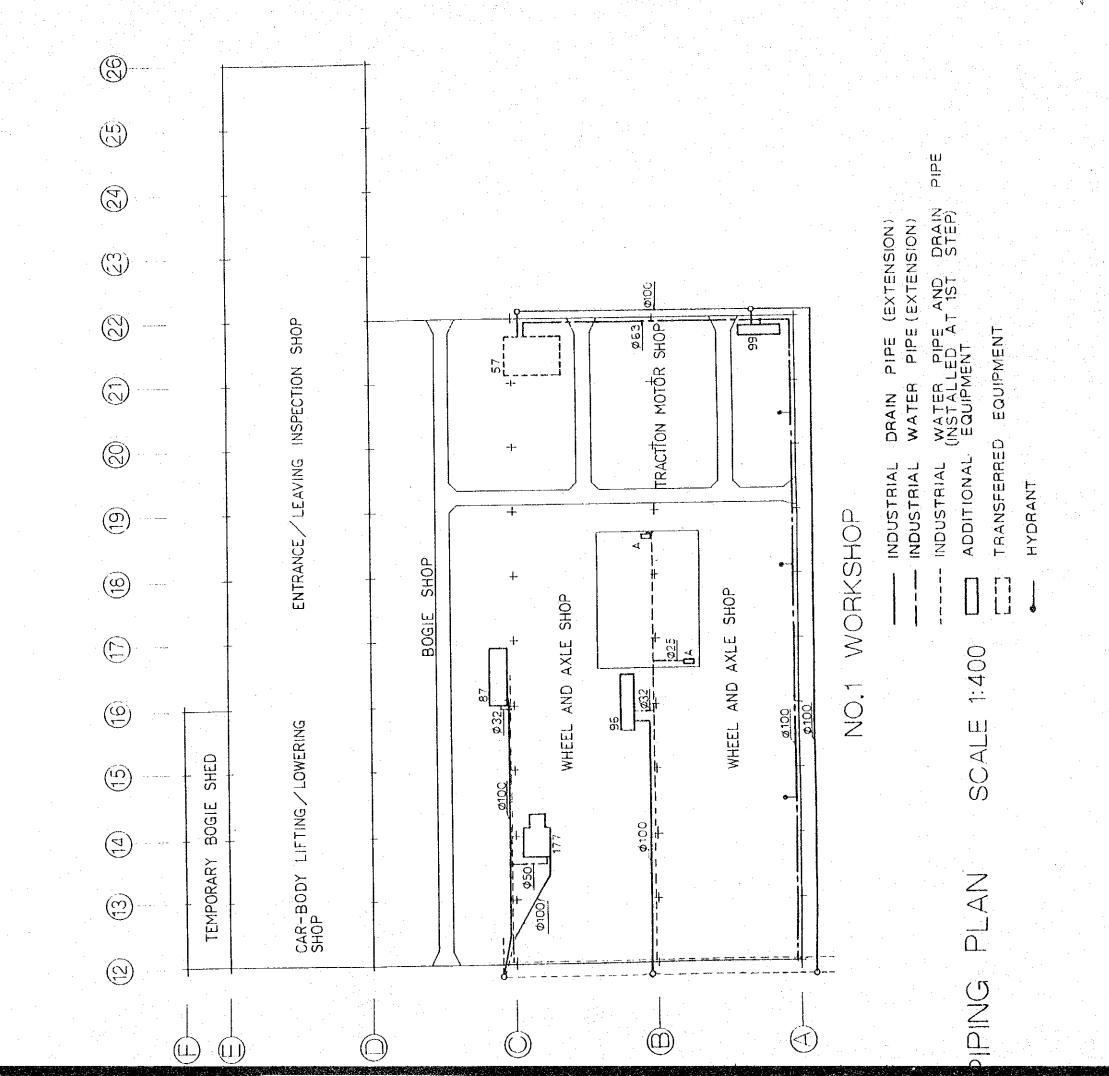


FIG.32 INDUSTRIAL WATER PIPING



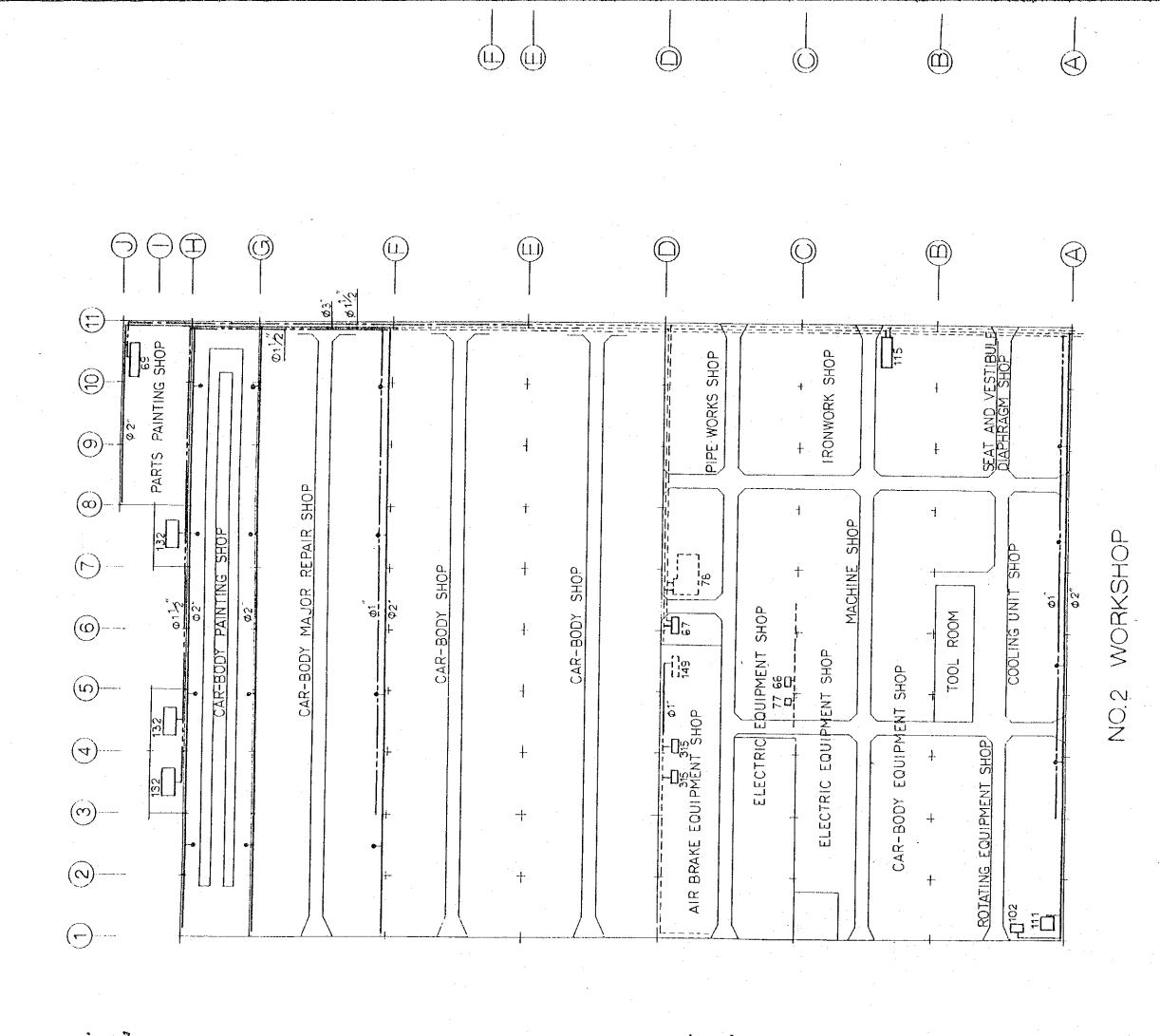
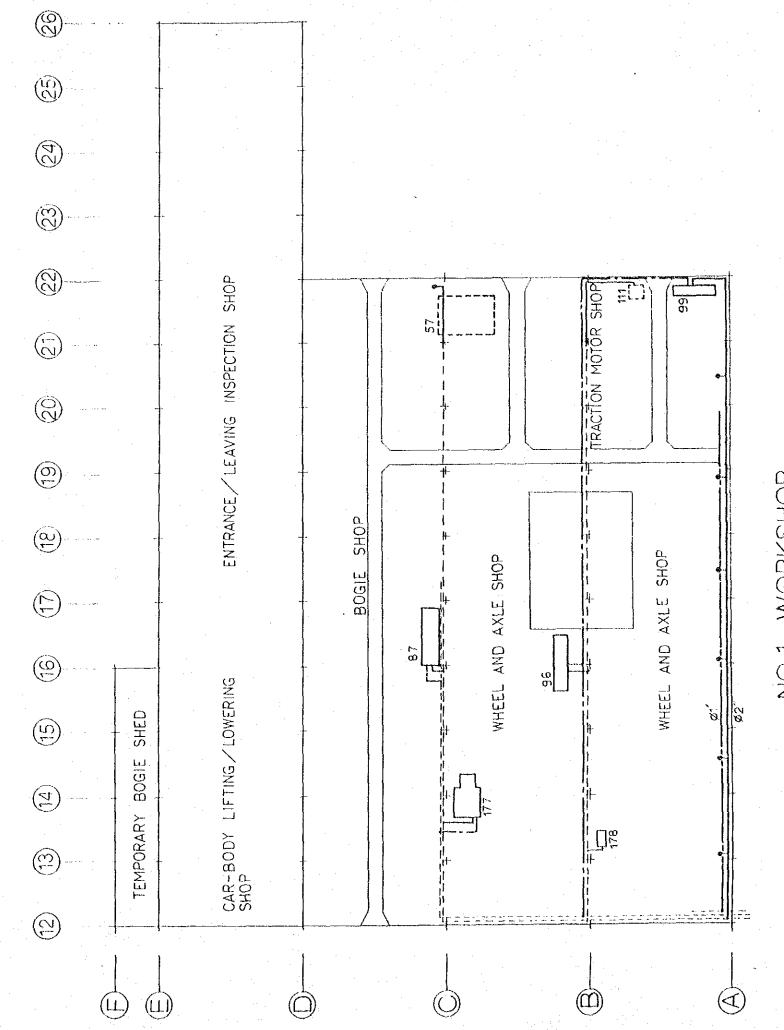


FIG.33 STEAM, NATURAL COMPRESSED AIR



NO.1 WORKSHOP

RAL GAS, AIR PIPING PLAN SCALE 1:400

COMPRESSED AIR PIPE (EXTENSION)

STEAM PIPE (EXTENSION)

NATURAL GAS PIPE (EXTENSION)

COMPRESSED AIR, STEAM, AND NATURAL GAS (INSTALLED AT 1ST STEP)

ADDITIONAL EQUIPMENT

0. 0.

TRANSFERRED EQUIPMENT



أوروا الان

