

# CITY OF ALBUQUERQUE WINTER 1988 WATER SYSTEM REHABILITATION

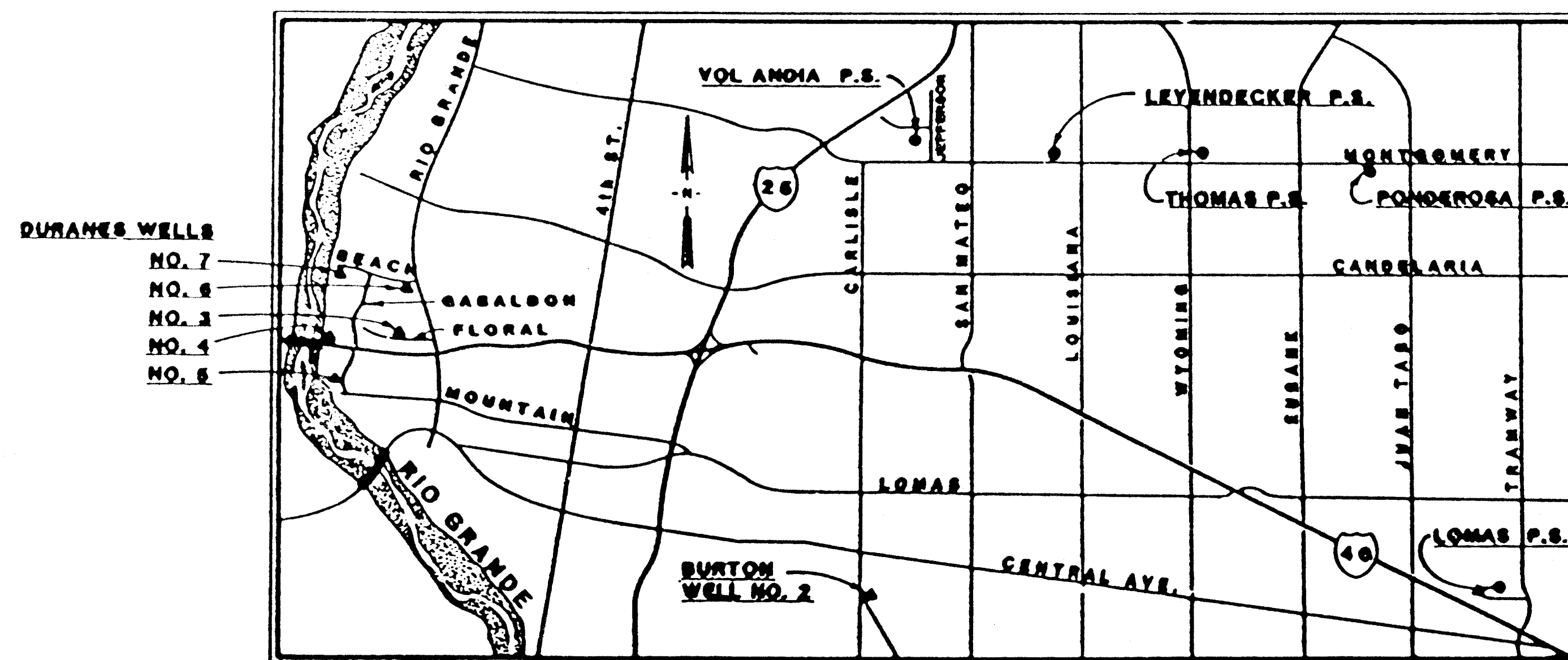
## SCHEDULE LEGEND

Schedule A : Lomas Pump Station Rehabilitation  
Schedule B : Electrical Rehabilitation for Selected Pump Stations  
Schedule C : Duranes Well Houses Nos. 3 - 7 Rehabilitation  
Schedule D : Surge Tanks for Selected Pump Stations  
Schedule E : Burton Well House No. 2 Rehabilitation

## INDEX OF DRAWINGS

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BURTON WELL #2  
NOT CONSTRUCTED



VICINITY MAP  
NY8

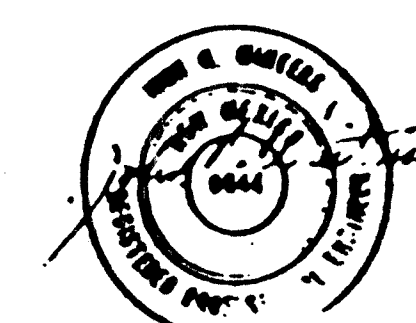
APPROVAL OF AS-BUILT DRAWINGS  
CHIEF-CONSTRUCTION ENGINEER

DATE 6-2-88

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  
26-3618 10197

APPROVED FOR CONSTRUCTION

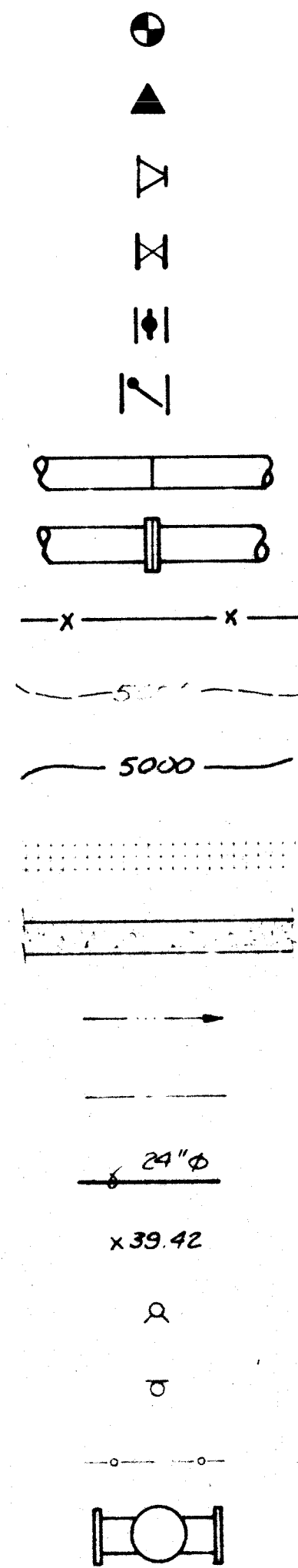
Edmund S. Archuleta, P.E.  
EDMUND S. ARCHULETA, P.E.  
ASST. DIRECTOR, PUBLIC WORKS DEPARTMENT

|                                                                                       |        |               |      |                                                                                       |      |           |      |
|---------------------------------------------------------------------------------------|--------|---------------|------|---------------------------------------------------------------------------------------|------|-----------|------|
| REV                                                                                   | SHEETS | CITY ENGINEER | DATE | USER DEPT                                                                             | DATE | USER DEPT | DATE |
| APPROVAL OF REVISIONS                                                                 |        |               |      |                                                                                       |      |           |      |
|  |        |               |      |  |      |           |      |
| PROJECT NO.<br>3618                                                                   |        |               |      | APPROVED FOR CONSTRUCTION<br>C E                                                      |      |           |      |
| SHEET<br>1                                                                            |        |               |      | OF<br>60                                                                              |      |           |      |

ABBREVIATIONS

|       |                              |       |                              |        |                              |
|-------|------------------------------|-------|------------------------------|--------|------------------------------|
| AB    | ANCHOR BOLT                  | EQUIP | EQUIPMENT                    | OC     | ON CENTER                    |
| AHP   | AIR HIGH PRESSURE            | EVAP  | EVAPORATIVE                  | OD     | OUTSIDE DIAMETER             |
| AL    | ALUMINUM                     | EW    | EACH WAY                     | OFE    | OWNER FURNISHED EQUIPMENT    |
| BF    | BUTTERFLY                    | EXIST | EXISTING                     | OP     | OPPOSITE                     |
| BLDG  | BUILDING                     | EXST  | EXISTING                     | OPNG   | OPENING                      |
| BOT   | BOTTOM                       | EXTG  | EXISTING                     | PCV    | PUMP CONTROL VALVE           |
| BTW   | BUTTERFLY VALVE              | FCA   | FLANGE COUPLING ADAPTER      | PE     | PLAIN END                    |
| BTWN  | BETWEEN                      | FD    | FLOOR DRAIN                  | PJF    | PREFORMED JOINT FILLER       |
| C-2   | CIVIL DRAWING 2ND SHEET      | FF    | FINISH FLOOR                 | PL     | PLATE                        |
| CANT  | CANTILEVER                   | FH    | FIRE HYDRANT                 | POS    | POSITIVE                     |
| CI    | CAST IRON                    | FLEX  | FLEXIBLE                     | PP     | POWER POLE                   |
| CJ    | CONSTRUCTION JOINT           | FLG   | FLANGE                       | PRV    | PRESSURE REDUCING VALVE      |
| CL    | CENTER LINE                  | FTG   | FOOTING                      | PS     | PUMP STATION                 |
| CLR   | CLEAR                        | G-1   | GENERAL DRAWING 1ST SHEET    | PVC    | POLYVINYL CHLORIDE           |
| CMU   | CONCRETE MASONRY UNIT        | GA    | GAUGE                        | RCPC   | REINFORCED CONCRETE PIPE     |
| COL   | COLUMN                       | GALV  | GALVANIZED                   | REINF  | REINFORCED                   |
| CONC  | CONCRETE                     | GI    | GALVANIZED IRON              | REQ'D  | REQUIRED                     |
| CONN  | CONNECTION                   | GS    | GALVANIZED STEEL             | RTU    | REMOTE TRANSMITTING UNIT     |
| CONT  | CONTINUOUS                   | GV    | GATE VALVE                   | S-3    | STRUCTURAL DRAWING 3RD SHEET |
| COR   | CORNER                       | HDW   | HARDWARE                     | SCH    | SCHEDULE                     |
| CPLG  | COUPLING                     | HM    | HOLLOW METAL                 | SHT    | SHEET                        |
| CTR   | CENTER                       | HT    | HEIGHT                       | SM     | SIMILAR                      |
| DET   | DETAIL                       | ID    | INSIDE DIAMETER              | SPEC'D | SPECIFIED                    |
| DI    | DUCTILE IRON                 | INST  | INSTRUMENTATION              | SPEC'S | SPECIFICATIONS               |
| DIA   | DIAMETER                     | JT    | JOINT                        | SS     | STAINLESS STEEL              |
| DIAG  | DIAGONAL                     | LF    | LINEAR FEET                  | SS1    | STAINLESS STEEL              |
| DISCH | DISCHARGE                    | M-4   | MECHANICAL DRAWING 4TH SHEET | STD    | STANDARD                     |
| DISPL | DISPLACEMENT                 | MANUF | MANUFACTURER                 | STL    | STEEL                        |
| DISTR | DISTRIBUTION                 | MAX   | MAXIMUM                      | TBM    | TEMPORARY BENCH MARK         |
| DWG   | DRAWING                      | MECH  | MECHANICAL                   | TH     | THICK                        |
| E-S   | ELECTRICAL DRAWING 5TH SHEET | MFR   | MANUFACTURER                 | TO     | TOP OF                       |
| EA    | EACH                         | MH    | MANHOLE                      | TYP    | TYPICAL                      |
| EC    | EVAPORATIVE COOLER           | MJ    | MECHANICAL JOINT             | VER    | VERTICAL                     |
| EL    | ELEVATION                    | MIN   | MINIMUM                      | WS     | WELDED STEEL                 |
| ELEC  | ELECTRICAL                   | NOM   | NOMINAL                      | WS     | WELDED STEEL PIPE            |
| ELEV  | ELEVATION                    | NTS   | NOT TO SCALE                 | WV     | WATER VALVE                  |

LEGEND



SPOT ELEVATION  
TEMPORARY BENCH MARK  
REDUCER  
GATE VALVE  
BUTTERFLY VALVE  
CHECK VALVE  
WELD CONNECTION  
FLANGE CONNECTION  
FENCE  
EXISTING CONTOURS  
NEW CONTOURS  
DEMOLITION (TO BE REMOVED)  
CONCRETE  
DRAINAGE SWALE  
EXISTING PIPE  
PROPOSED PIPE  
SPOT ELEVATION  
FIRE HYDRANT  
POWER POLE  
CHAIN LINK FENCE  
CONTROL VALVE

SECTION (LETTER) OR  
DETAIL (NUMERAL)  
DESIGNATION

ON DRAWING WHERE SECTION  
OR DETAIL IS TAKEN:  
SHEET NUMBER WHERE SHOWN

SHEET NUMBER  
(REPLACED WITH A LINE  
IF TAKEN AND SHOWN  
ON SAME SHEET)

ON DRAWING WHERE SECTION  
OR DETAIL IS SHOWN:  
SHEET NUMBER(S) WHERE TAKEN

**DETAIL AND SECTION DESIGNATION**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  
26-36/18 0207

|                                                                                                            |      |      |      |
|------------------------------------------------------------------------------------------------------------|------|------|------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING GROUP                                        |      |      |      |
| TITLE<br>WINTER 1988 WATER SYSTEM REHABILITATION<br>LEGEND & ABBREVIATIONS, GENERAL NOTES<br>ALL SCHEDULES |      |      |      |
| DATE                                                                                                       | BY   | DATE | DATE |
| 26-36/18                                                                                                   | 0207 |      |      |
| DRAWING NO. G-2 MAP NO. SHEET 2 OF 68                                                                      |      |      |      |

| ELECTRICAL LEGEND |                                                                                                                                                                                                                                                                                |        |                                                                                                                                                | ABBREVIATIONS                                                                                                                                                                                                         |                                                                                           |               |                                                   |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------|---------------------------------------------------|------|---|---|---|---|---|---|---|---|--|----------------------------|----|--------------------|
| SYMBOL            | DESCRIPTION                                                                                                                                                                                                                                                                    | SYMBOL | DESCRIPTION                                                                                                                                    | ABBREVIATIONS                                                                                                                                                                                                         | DESCRIPTION                                                                               | ABBREVIATIONS | DESCRIPTION                                       |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | CONTROL DEVICE - FURNISHED AND INSTALLED UNDER OTHER SECTIONS; RACEWAYS, CONDUCTORS, AND CONDUCTOR END TERMINATORS FURNISHED AND INSTALLED UNDER THIS SECTION AS SHOWN. CONDUCTOR FINAL CONNECTIONS PROVIDED UNDER OTHER SECTIONS.                                             |        | CONVENIENCE RECEPTACLE - DUPLEX UNLESS SPECIFIED OTHERWISE<br>WP-WEATHERPROOF<br>TL- TWIST LOCK<br>C- CLOCK HANGER<br>CRE- CORROSION RESISTANT |                                                                                                                                                                                                                       | CONTACT - NORMALLY OPEN WITH NEMA SIZE INDICATED AS APPLICABLE                            | A             | AMMETER, AMPERE, AMBER                            |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | CONNECTION POINT TO EQUIPMENT SPECIFIED, FURNISHED AND INSTALLED UNDER OTHER SECTIONS. RACEWAY, CONDUCTOR AND CONNECTION IN THIS SECTION.                                                                                                                                      |        | CONVENIENCE RECEPTACLE, PEDESTAL, DUPLEX SINGLE FACE UNLESS INDICATED OTHERWISE                                                                |                                                                                                                                                                                                                       | CONTACT - NORMALLY CLOSED WITH NEMA SIZE INDICATED AS APPLICABLE                          | AFD           | ADJUSTABLE FREQUENCY DRIVE                        |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | INDICATES RACEWAYS AND CIRCUIT NUMBERS. FIRST NUMBER IS RACEWAY AND NUMBER AFTER DASH IS CIRCUIT NUMBER. 5-E(3) INDICATES THAT THERE ARE 3 EMPTY RACEWAY NO.5. SEE SCHEDULE.                                                                                                   |        | RECEPTACLE - 240V., 1Ø, AMPERAGE INDICATED                                                                                                     |                                                                                                                                                                                                                       | OVERLOAD RELAY HEATER                                                                     | AFF           | ABOVE FINISHED FLOOR                              |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | MAJOR ELECTRICAL COMPONENT OR DEVICE - NAME OR IDENTIFYING SYMBOL AS SHOWN.                                                                                                                                                                                                    |        | RECEPTACLE, SPECIAL PURPOSE-AMPERAGE AS INDICATED                                                                                              |                                                                                                                                                                                                                       | MAGNETIC STARTER WITH NEMA SIZE INDICATED                                                 | AP            | ADMITTANCE PROBE                                  |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | BRANCH CIRCUIT PANEL BOARD                                                                                                                                                                                                                                                     |        | DUPLEX CONVENIENCE RECEPTACLE - FLUSH IN FLOOR                                                                                                 |                                                                                                                                                                                                                       | CIRCUIT BREAKER, MAGNETIC TRIP ONLY, FRAME SIZE SHOWN, 3 POLE UNLESS INDICATED OTHERWISE. | AS            | AMPERE SWITCH                                     |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | UNIT HEATER NO. 1                                                                                                                                                                                                                                                              |        | MULTI OUTLET ASSEMBLY                                                                                                                          |                                                                                                                                                                                                                       | CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN, 3 POLE UNLESS INDICATED OTHERWISE.          | ASU           | AMPERE SENSOR                                     |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | TELEPHONE TERMINAL CABINET                                                                                                                                                                                                                                                     |        | WALL CLOCK WITH CLOCK HANGER CONVENIENCE RECEPTACLE                                                                                            |                                                                                                                                                                                                                       | FUSE - RATING INDICATED                                                                   | AIR           | AIR SUPPLY UNIT                                   |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | TERMINAL JUNCTION BOX                                                                                                                                                                                                                                                          |        | TELEPHONE RECEPTACLE (OUTLET BOX ONLY) FLUSH IN FLOOR                                                                                          |                                                                                                                                                                                                                       | DRAWOUT CIRCUIT BREAKER, LOW VOLTAGE                                                      | ATC           | ATMATIC THROWOVER CONTROL                         |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | WOUND-ROTOR MOTOR, HORSEPOWER INDICATED                                                                                                                                                                                                                                        |        | TELEPHONE RECEPTACLE (OUTLET BOX ONLY)                                                                                                         |                                                                                                                                                                                                                       | DRAWOUT FUSED SWITCH, MEDIUM VOLTAGE                                                      | ATS           | AUTOMATIC TRANSFER SWITCH                         |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | MOTOR, SQUIRREL CAGE INDUCTION, HORSEPOWER INDICATED                                                                                                                                                                                                                           |        | GENERAL CONTROL OR WIRING DEVICE. LETTER SYMBOLS OR ABBREVIATIONS INDICATE TYPE OF DEVICE.                                                     |                                                                                                                                                                                                                       | SURGE ARRESTER                                                                            | B             | BELL, BLUE                                        |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | LUMINAIRE, SEE SPECIFICATIONS                                                                                                                                                                                                                                                  |        | PUSH-BUTTON STATION. FOR TYPE PUSH BUTTON REQUIRED, SEE CONTROL DIAGRAMS.                                                                      |                                                                                                                                                                                                                       | CAPACITOR - KVAR INDICATED                                                                | BC            | BARE COPPER                                       |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | LUMINAIRE, SEE SPECIFICATIONS                                                                                                                                                                                                                                                  |        | NONFUSED DISCONNECT SWITCH, SIZE INDICATED, 3 POLE UNLESS INDICATED OTHERWISE.                                                                 |                                                                                                                                                                                                                       | METER WITH SWITCH - SCALE RANGE SHOWN                                                     | BP            | BYPASS VALVE                                      |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | LUMINAIRE AND POLE, SEE SPECIFICATIONS                                                                                                                                                                                                                                         |        | FUSED DISCONNECT SWITCH, SIZE INDICATED (60/40, 60=SWITCH RATING; 40=FUSE RATING) 3 POLE UNLESS INDICATED OTHERWISE.                           |                                                                                                                                                                                                                       | GROUND                                                                                    | BV            | BUTTERFLY VALVE                                   |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | WALL MOUNTED LUMINAIRE, SEE SPECIFICATIONS                                                                                                                                                                                                                                     |        | CONTACTOR, MAGNETIC, NEMA SIZE INDICATED.                                                                                                      |                                                                                                                                                                                                                       | TRANSFORMER, SECONDARY VOLTAGES, PHASE AND RATING INDICATED AS APPLICABLE                 | C             | CONDUIT, CONTACTOR                                |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | FLOOD LIGHTS - AIM IN THE DIRECTION SHOWN                                                                                                                                                                                                                                      |        | LIGHTING CONTACTOR, CURRENT RATING INDICATED. FOR NUMBER OF POLES, SEE CONTROL DIAGRAM.                                                        |                                                                                                                                                                                                                       | PICK-UP SETTING                                                                           | CC            | CONTROL CABLE                                     |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | EXIT LIGHTS, SEE SCHEDULE                                                                                                                                                                                                                                                      |        | STATOR MAGNETIC NEMA SIZE INDICATED, SEE CONTROL DIAGRAM.                                                                                      |                                                                                                                                                                                                                       | TIME CURRENT CHARACTERISTIC                                                               | CKT           | CIRCUIT                                           |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | SMALL LETTER SUBSCRIPT AT SWITCH AND LUMINAIRE INDICATES SWITCHING SUBSCRIPT NUMBER AT LUMINAIRE INDICATES CIRCUIT IN PANELBOARD.                                                                                                                                              |        | COMBINATION (FUSE OR CIRCUIT BREAKER AS INDICATED) MAGNETIC STATOR, NEMA SIZE INDICATED, SEE CONTROL DIAGRAM.                                  |                                                                                                                                                                                                                       | PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY OPEN                                      | CR            | CONTROL POWER TRANSFORMER                         |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | HOME RUN - DESTINATION SHOWN                                                                                                                                                                                                                                                   |        | METERING FACILITIES                                                                                                                            |                                                                                                                                                                                                                       | PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY CLOSED                                    | CRS           | CONTROL RIGID STEEL CONDUIT                       |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | EXPOSED CONDUIT AND CONDUCTORS*                                                                                                                                                                                                                                                |        | MULTI-PARTY DESK TOP COMMUNICATIONS SYSTEM STATION WITH REMOTE AMPLIFIER                                                                       |                                                                                                                                                                                                                       | PUSH BUTTON SWITCH, MAINTAINED CONTACTS WITH MECHANICAL INTERLOCK                         | CT            | CURRENT TRANSFORMER                               |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | CONCEALED CONDUIT AND CONDUCTORS*                                                                                                                                                                                                                                              |        | MULTI-PARTY WALL MOUNTED COMMUNICATIONS SYSTEM STATION WITH INTEGRAL AMPLIFIER                                                                 |                                                                                                                                                                                                                       | 3 POSITION SELECTOR SWITCH MAINTAINED CONTACT                                             | CV            | CONTROL VALVE                                     |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | NOTE:<br>* ALL UNMARKED CONDUIT RUNS CONSIST OF TWO NO. 12 CONDUCTORS IN CONDUIT. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF NO. 12 CONDUCTORS. CROSSHATCH WITH SUBSCRIPT "G" INDICATES GREEN GROUND WIRE. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE. |        | CONE TYPE PAGING SPEAKER, CEILING MOUNTED                                                                                                      |                                                                                                                                                                                                                       | TIME DELAY RELAY CONTACT (TIME ACTION INDICATED)                                          | DC            | DIRECT CURRENT                                    |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | CROSSHATCHES WITH BAR INDICATE #10 CONDUCTOR. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE.                                                                                                                                                                    |        | INTERIOR PAGING TRUMPET SOUND REPRODUCER, WITH REMOTE AMPLIFIER, SURFACE MOUNTED.                                                              |                                                                                                                                                                                                                       | REMOTE DEVICE                                                                             | DIV           | DIVISION                                          |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | CONDUIT DOWN                                                                                                                                                                                                                                                                   |        | OUTDOOR PAGING TRUMPET SOUND REPRODUCER, WITH REMOTE AMPLIFIER, SURFACE MOUNTED.                                                               |                                                                                                                                                                                                                       | SELECTOR SWITCH - MAINTAINED CONTACT - CHART IDENTIFIES OPERATION:                        | DV            | DISCHARGE VALVE                                   |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | CONDUIT UP                                                                                                                                                                                                                                                                     |        | TERMINAL CABINET FOR COMMUNICATIONS SYSTEM                                                                                                     | <table border="1"><thead><tr><th>CKT</th><th>HAND</th><th>OFF</th><th>AUTO</th></tr></thead><tbody><tr><td>1</td><td>X</td><td>O</td><td>O</td></tr><tr><td>2</td><td>O</td><td>O</td><td>X</td></tr></tbody></table> | CKT                                                                                       | HAND          | OFF                                               | AUTO | 1 | X | O | O | 2 | O | O | X |  | FIRE ALARM STATION, MANUAL | EG | EVAPORATIVE COOLER |
| CKT               | HAND                                                                                                                                                                                                                                                                           | OFF    | AUTO                                                                                                                                           |                                                                                                                                                                                                                       |                                                                                           |               |                                                   |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
| 1                 | X                                                                                                                                                                                                                                                                              | O      | O                                                                                                                                              |                                                                                                                                                                                                                       |                                                                                           |               |                                                   |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
| 2                 | O                                                                                                                                                                                                                                                                              | O      | X                                                                                                                                              |                                                                                                                                                                                                                       |                                                                                           |               |                                                   |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | CONDUIT, STUBBED AND CAPPED AS SHOWN                                                                                                                                                                                                                                           |        | FIRE ALARM STATION, AUTOMATIC, HEAT DETECTOR                                                                                                   |                                                                                                                                                                                                                       | FIRE HYDRANT                                                                              | EO            | ELECTRIC OPERATOR                                 |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | CABLE TRAY, SEE SPECIFICATIONS                                                                                                                                                                                                                                                 |        | FIRE ALARM BELL                                                                                                                                |                                                                                                                                                                                                                       | GAS UNIT HEATER                                                                           | ETM           | ELAPSED TIME METER                                |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | BUS DUCT, SEE SPECIFICATIONS                                                                                                                                                                                                                                                   |        | FIRE ALARM HORN                                                                                                                                |                                                                                                                                                                                                                       | HIGH SPEED, HORN                                                                          | EXT           | EXISTING                                          |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | TRENCHING FOR UTILITY COMPANY PRIMARY POWER CKTS                                                                                                                                                                                                                               |        | FIRE ALARM IONIZATION DETECTOR                                                                                                                 |                                                                                                                                                                                                                       | HOWLER                                                                                    | FLR           | FLOOR                                             |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | TRENCHING FOR TELEPHONE COMPANY CIRCUITS                                                                                                                                                                                                                                       |        | AIR DUCT IONIZATION DETECTOR                                                                                                                   |                                                                                                                                                                                                                       | HIGH INTENSITY DISCHARGE                                                                  | FLUOR         | FLOUORESCENT                                      |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | CONCRETE ENCASED CONDUIT                                                                                                                                                                                                                                                       |        | DAMPER                                                                                                                                         |                                                                                                                                                                                                                       | HPS                                                                                       | FS            | FLOAT SWITCH                                      |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | DIRECT BURIED CONDUIT                                                                                                                                                                                                                                                          |        | TEMPERATURE PROBE                                                                                                                              |                                                                                                                                                                                                                       | HVAC                                                                                      | FT            | FLOW TRANSMITTER                                  |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | WALL SWITCH:<br>2- DOUBLE POLE<br>3- THREE WAY<br>4- FOUR WAY<br>WP- WEATHERPROOF                                                                                                                                                                                              |        | MAGNETIC DOOR SWITCH                                                                                                                           |                                                                                                                                                                                                                       | INTERRUPTING CAPACITY                                                                     | FVNR          | FULL VOLTAGE NON-REVERSING FULL VOLTAGE REVERSING |      |   |   |   |   |   |   |   |   |  |                            |    |                    |
|                   | P- PILOT LIGHT                                                                                                                                                                                                                                                                 |        |                                                                                                                                                |                                                                                                                                                                                                                       | INSTRUMENTATION AND CONTROL                                                               | FVR           | FIRE VOLTAGE REVERS                               |      |   |   |   |   |   |   |   |   |  |                            |    |                    |

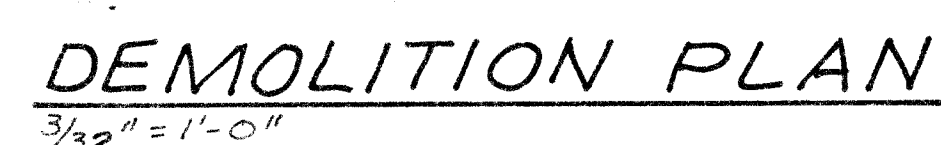
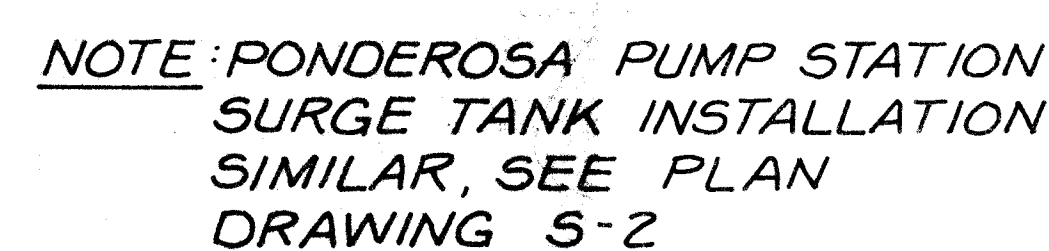
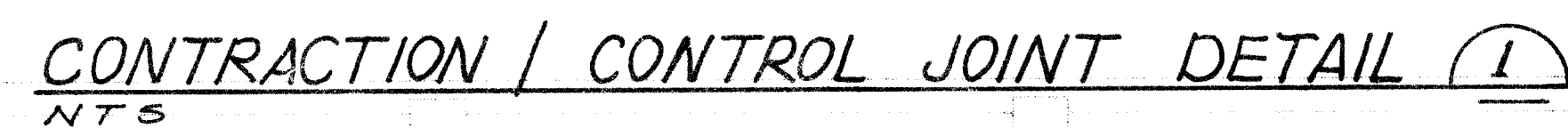
| ABBREVIATIONS |                                                          | DESCRIPTION           | ABBREVIATIONS |                                | DESCRIPTION | AS BUILT |  | INFO |  |
|---------------|----------------------------------------------------------|-----------------------|---------------|--------------------------------|-------------|----------|--|------|--|
| A             | AMMETER                                                  | AMPERE, AMPERE, AMBER | M             | MAGNETIC CONTACTOR             | COIL        |          |  |      |  |
| AF            | AMPERE FRAME                                             |                       | MCC           | MOTOR CONTROL CENTER           |             |          |  |      |  |
| AFD           | ADJUSTABLE FREQUENCY DRIVE                               |                       | MDC           | MOTORIZED DAMPER               |             |          |  |      |  |
| AF            | ABOVE FINISHED FLOOR                                     |                       | MERC          | MERCURY VAPOR                  |             |          |  |      |  |
| APP           | ADMITTANCE PROBE                                         |                       | MH            | MANHOLE                        |             |          |  |      |  |
| AS            | AMMETER SWITCH,                                          |                       | MMP           | MECHANICAL MOUNTING PANEL      |             |          |  |      |  |
| ASU           | ANALOG SENSOR                                            |                       | MO            | MOTOR OPERATOR                 |             |          |  |      |  |
| AT            | AIR SUPPLY UNIT                                          |                       | MS            | MOTOR STARTER                  |             |          |  |      |  |
| ATC           | AMPERE TRIP                                              |                       | MT            | MOUNT, MOUNTED                 |             |          |  |      |  |
| ATC           | AUTOMATIC THROWOVER CONTROL                              |                       | MOL           | MOTOR OVERLOAD                 |             |          |  |      |  |
| ATS           | AUTOMATIC TRANSFER SWITCH                                |                       | N             | NEUTRAL                        |             |          |  |      |  |
| B             | BELL                                                     | BLUE                  | NA            | NON-AUTOMATIC                  |             |          |  |      |  |
| BC            | BARE COPPER                                              |                       | NC            | NORMALLY CLOSED                |             |          |  |      |  |
| BP            | BYPASS VALVE                                             |                       | NL            | NIGHT LIGHT                    |             |          |  |      |  |
| CB            | BUTTERFLY VALVE                                          |                       | NO            | NORMALLY OPEN                  |             |          |  |      |  |
| CC            | CABLE, CONTACTOR                                         |                       | NP            | NAMEPLATE                      |             |          |  |      |  |
| CC            | CONTROL CABLE                                            |                       | OL            | OVERLOAD RELAY                 |             |          |  |      |  |
| CKT           | CIRCUIT                                                  |                       | PCV           | PUMP CONTROL VALVE             |             |          |  |      |  |
| CPT           | CONTROL POWER TRANSFORMER                                |                       | PB            | PULL BOX, PUSH BUTTON          |             |          |  |      |  |
| CR            | CONTROL RELAY                                            |                       | PC            | SWITCH                         |             |          |  |      |  |
| CRS           | COATED RIGID STEEL CONDUIT                               |                       | PNL           | PHOTOCELL                      |             |          |  |      |  |
| CV            | CURRENT TRANSFORMER                                      |                       | PS            | PANEL                          |             |          |  |      |  |
| CV            | CONTROL VALVE                                            |                       | PST           | PRESSURE SWITCH                |             |          |  |      |  |
| DC            | DIRECT CURRENT                                           |                       | PVC           | POTENTIAL TRANSFORMER          |             |          |  |      |  |
| DIV           | DIVISION                                                 |                       | PNM           | POLYVINYL CHLORIDE CONDUIT     |             |          |  |      |  |
| DIS           | DISCHARGE VALVE                                          |                       | RED           | PUBLIC SERVICE CO. OF N.M.     |             |          |  |      |  |
| EF            | EXHAUST FAN                                              |                       | RECEPT        | RECEPTACLE                     |             |          |  |      |  |
| EC            | EXHAUST FAN COOLER                                       |                       | RM            | REMOTE MULTIPLEXER             |             |          |  |      |  |
| EO            | ELECTRIC OPERATOR                                        |                       | RS            | RIGID STEEL CONDUIT            |             |          |  |      |  |
| ETM           | ELAPSED TIME METER                                       |                       | RTU           | REMOTE TELEMETRY UNIT          |             |          |  |      |  |
| EXTST         | EXISTING                                                 |                       | RVRN          | REDUCED VOLTAGE                |             |          |  |      |  |
| FE            | FLOW ELEMENT                                             |                       | RVR           | NON-REVERSING                  |             |          |  |      |  |
| FDR           | FEEDER                                                   |                       | REV           | REDUCED VOLTAGE REVRSG         |             |          |  |      |  |
| F             | FUSE                                                     |                       | RTD           | RESISTIVE THERMAL DETECTOR     |             |          |  |      |  |
| FL            | FLOOR                                                    |                       | SA            | SURGE ARRESTER                 |             |          |  |      |  |
| FLU           | FLUORESCENT                                              |                       | SC            | SPEED CONTROL                  |             |          |  |      |  |
| FS            | FLOAT SWITCH                                             |                       | SH            | SPACE HEATER                   |             |          |  |      |  |
| FT            | FLOW TRANSMITTER                                         |                       | SN            | SOLID NEUTRAL                  |             |          |  |      |  |
| FVR           | FULL VOLTAGE                                             |                       | SPD           | SURGE CONTROL PANEL            |             |          |  |      |  |
| FVR           | NON-REVERSING                                            |                       | SST           | SPEED                          |             |          |  |      |  |
| FV            | FULL VOLTAGE REVERSING                                   |                       | SV            | STAINLESS STEEL                |             |          |  |      |  |
| FH            | FIRE HYDRANT                                             |                       | SDIV          | SOLVENT VALVE,                 |             |          |  |      |  |
| G             | GREEN, GROUND                                            |                       | TD            | SUCTION VALVE,                 |             |          |  |      |  |
| GALV          | GALVANIZED                                               |                       | SW            | SWITCH                         |             |          |  |      |  |
| GFI           | GROUND FAULT INTERRUPTER                                 |                       | SDIV          | STATION DISCH. ISOLATION VALVE |             |          |  |      |  |
| GFR           | GROUND FAULT RELAY                                       |                       | TD            | TERMINAL BOARD                 |             |          |  |      |  |
| GND, GND      | GROUND                                                   |                       | TC            | TIME CLOCK, TIME CLOSE         |             |          |  |      |  |
| H             | HIGH                                                     |                       | TD            | TEMPERATURE DETECTOR RELAY     |             |          |  |      |  |
| H             | HIGH SPEED, HORN, HOWLER                                 |                       | TDR           | TIME DELAY RELAY               |             |          |  |      |  |
| H             | HANDLE                                                   |                       | TJB           | TERMINAL JUNCTION BOX          |             |          |  |      |  |
| H             | HIGH INTENSITY DISCHARGE                                 |                       | TM            | TIME DELAY RELAY               |             |          |  |      |  |
| HPS           | HIGH PRESSURE SODIUM HEATING, HEATING & AIR CONDITIONING |                       | TO            | TIME OPEN                      |             |          |  |      |  |
| HVAC          | HIGH INTENSITY DISCHARGE                                 |                       | TR            | TIMER-REPEAT CYCLE             |             |          |  |      |  |
| IC            | INTER interrupting CAPACITY                              |                       | TSP           | AUTO TRANSFORMER               |             |          |  |      |  |
| IC & C        | INSTRUMENTATION AND CONTROL                              |                       | TST           | TEMPERATURE SWITCH             |             |          |  |      |  |
| INCAND        | INCANDESCENT                                             |                       |               |                                |             |          |  |      |  |

NOTE: THIS IS A STANDARD LEGEND SHEET. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PLANS.

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| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING GROUP                             |          |                  |           |                             |      |  |  |  |  |
| TITLE: WINTER 1988 WATER SYSTEM REHABILITATION<br>ELECTRICAL & ABREVIATIONS<br>SCHEDULE A,B & E |          |                  |           |                             |      |  |  |  |  |
| APPROVALS                                                                                       | ENGINEER | DATE             | APPROVALS | ENGINEER                    | DATE |  |  |  |  |
| D.R.C. Chair                                                                                    |          |                  |           |                             |      |  |  |  |  |
| Trans. Dev                                                                                      |          |                  |           |                             |      |  |  |  |  |
| Utility Dev                                                                                     |          |                  |           |                             |      |  |  |  |  |
| DRAWING NO. <b>G-3</b>                                                                          |          | MAP NO. <b>-</b> |           | SHEET <b>3</b> OF <b>68</b> |      |  |  |  |  |



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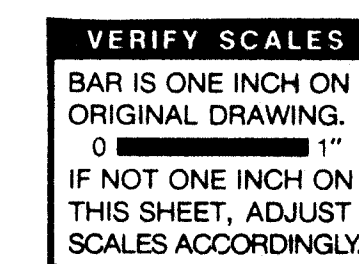
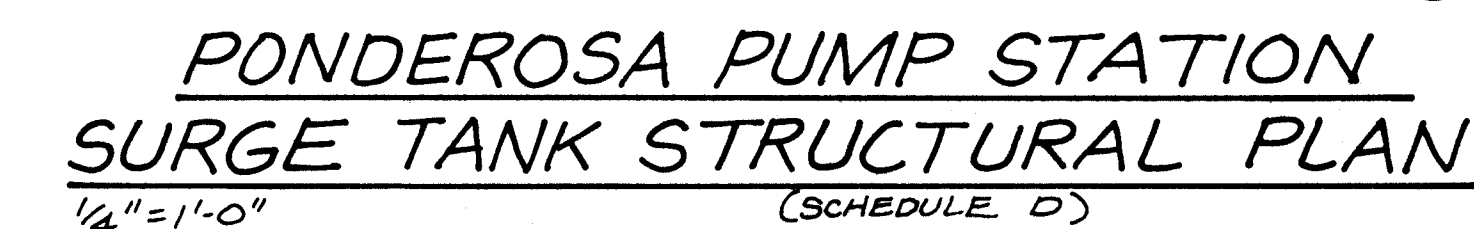
CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: WINTER 1988 WATER SYSTEM REHABILITATION  
LOMAS PUMP STATION PLAN & DEMOLITION

| APPROVALS   | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|-------------|----------|------|-----------|----------|------|
| DRC Chair   |          |      |           |          |      |
| Trans. Dev  |          |      |           |          |      |
| Utility Dev |          |      |           |          |      |

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|------------|------------|---------|-------------|-------|----------|----|-----------|
| DRAWING NO | <b>S-1</b> | MAP NO. | <b>K-22</b> | SHEET | <b>4</b> | OF | <b>68</b> |
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CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: WINTER 1988 WATER SYSTEM REHABILITATION  
LOMAS AND PONDEROSA PUMP STATIONS  
STRUCTURAL SECTIONS & DETAILS

| SCHEDULE A-60 |          |      |           |          |      |
|---------------|----------|------|-----------|----------|------|
| APPROVALS     | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
| P.R.C. Chair  |          |      |           |          |      |
| Trans. Dev.   |          |      |           |          |      |
| Utility Dev.  |          |      |           |          |      |
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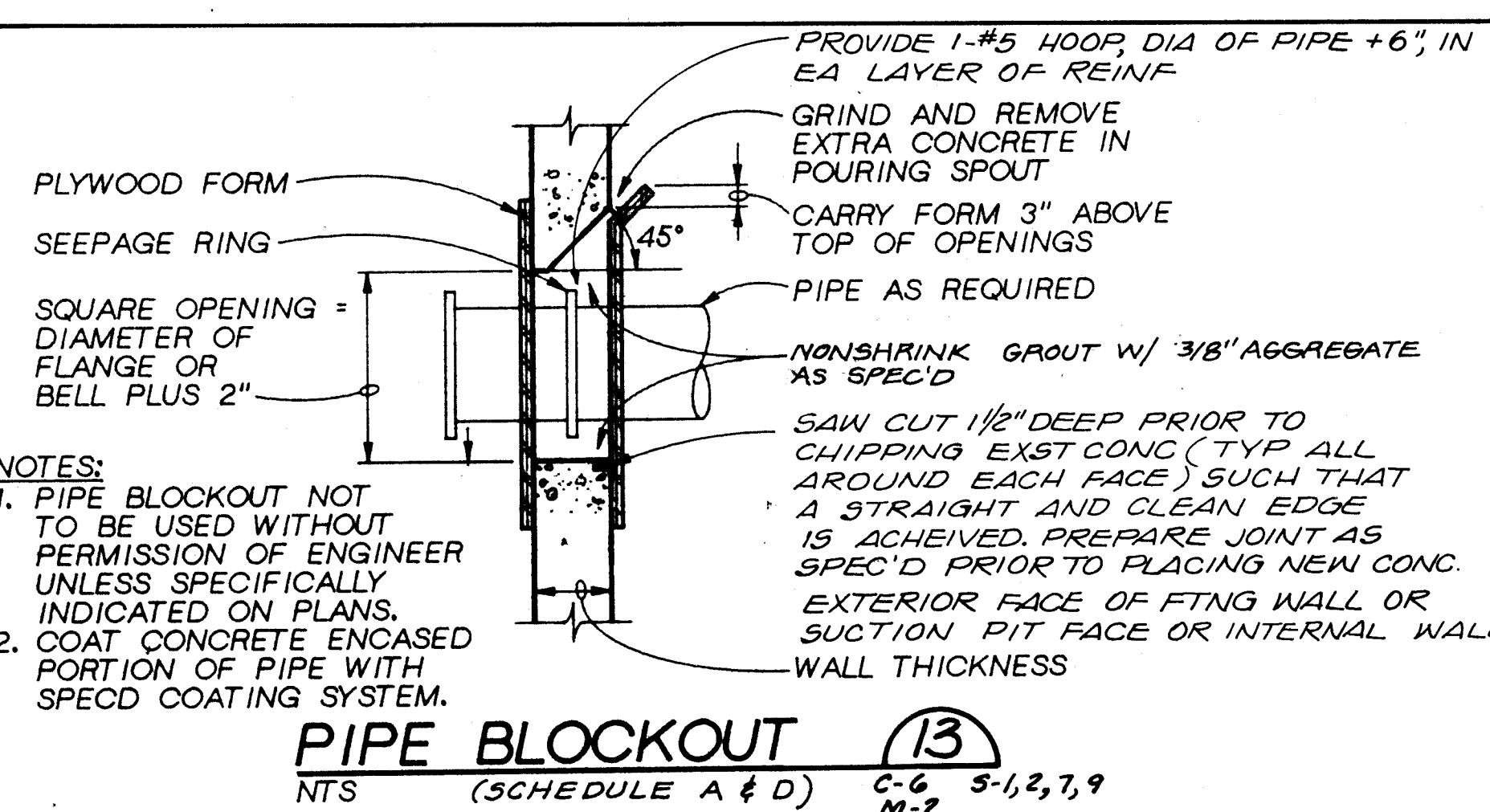
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| DRAWING NO. | S-2 | MAP NO. | 1-22 | SHEET | 5 | OF | 68 |
|-------------|-----|---------|------|-------|---|----|----|





1. EXTEND GRATING CONTINUOUSLY OVER GATE GUIDES AND GATES.
2. NOTCH GRATING SUPPORTS AT GATES AS REQUIRED.
3. GRATING SPAN — SEE PLAN.
4. WIDTH OF GRATING SPANS SHALL NOT EXCEED 3'-0".
5. SHOP DRAWINGS BASED ON FIELD DIMENSIONS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION.
6. MATERIAL FOR SUPPORTS OF STEEL AND ALUMINUM GRATING TO BE USED ON GRATING SHALL BE IDENTICAL. THEY ARE TO BE EMBEDDED IN CONCRETE SHALL BE TYPE 316 STAINLESS STEEL.
7. STEEL GRATING AND SUPPORT NOT EMBEDDED SHALL BE GALVANIZED UNLESS OTHERWISE SPECIFIED.
8. UNLESS NOTED OTHERWISE ON PLANS, GRATING THICKNESS SHALL BE AS TABULATED IN "GRATING THICKNESS TABLE" FOR "APPROXIMATE TRAFFIC LOADS".
9. BEARING BAR THICKNESS FOR GRATING TO BE  $\frac{3}{8}$ " MINIMUM.
10. BAND ALL EDGES WITH  $\frac{3}{8}$ " x DEPTH OF BEARING BAR.
11. PROVIDE MISCELLANEOUS GRATING FASTENERS AS REQUIRED.
12. MATERIALS AND MATERIALS CONNECTIONS SHALL BE AS SPECIFIED. THIS STANDARD DETAIL INCLUDES 3 TYPES, AND ALTHOUGH ALL 3 MAY NOT BE UTILIZED IN PROJECT.
13. FIELD HORIZONTAL SPACING BETWEEN GRATING TIES AND GRATING SUPPORTS SHALL NOT BE LESS THAN  $\frac{1}{2}$ " NOR GREATER THAN  $\frac{1}{2}$ ".
14. ALL GRATING SECTIONS, WHEN IN PLACE, SHALL ALWAYS BE FIRMLY ANCHORED TO THEIR SUPPORTS.
15. ALL GRATING FOR THE WINTER 1988 WATER SYSTEM REHABILITATION PROJECT SHALL BE GALVANIZED STEEL.

GRATING NOTES (10)  
(SCHEDULE A) S-1



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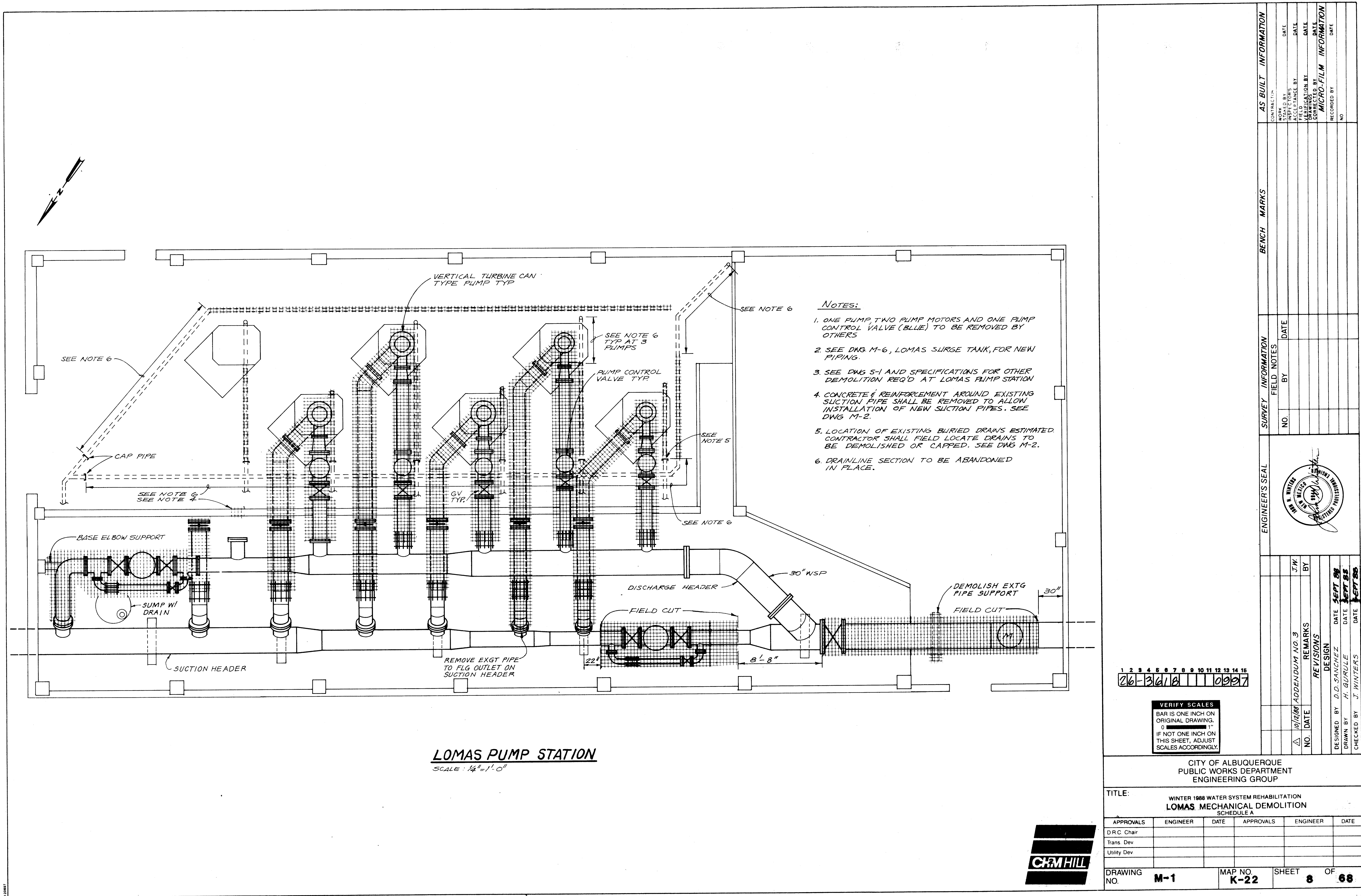
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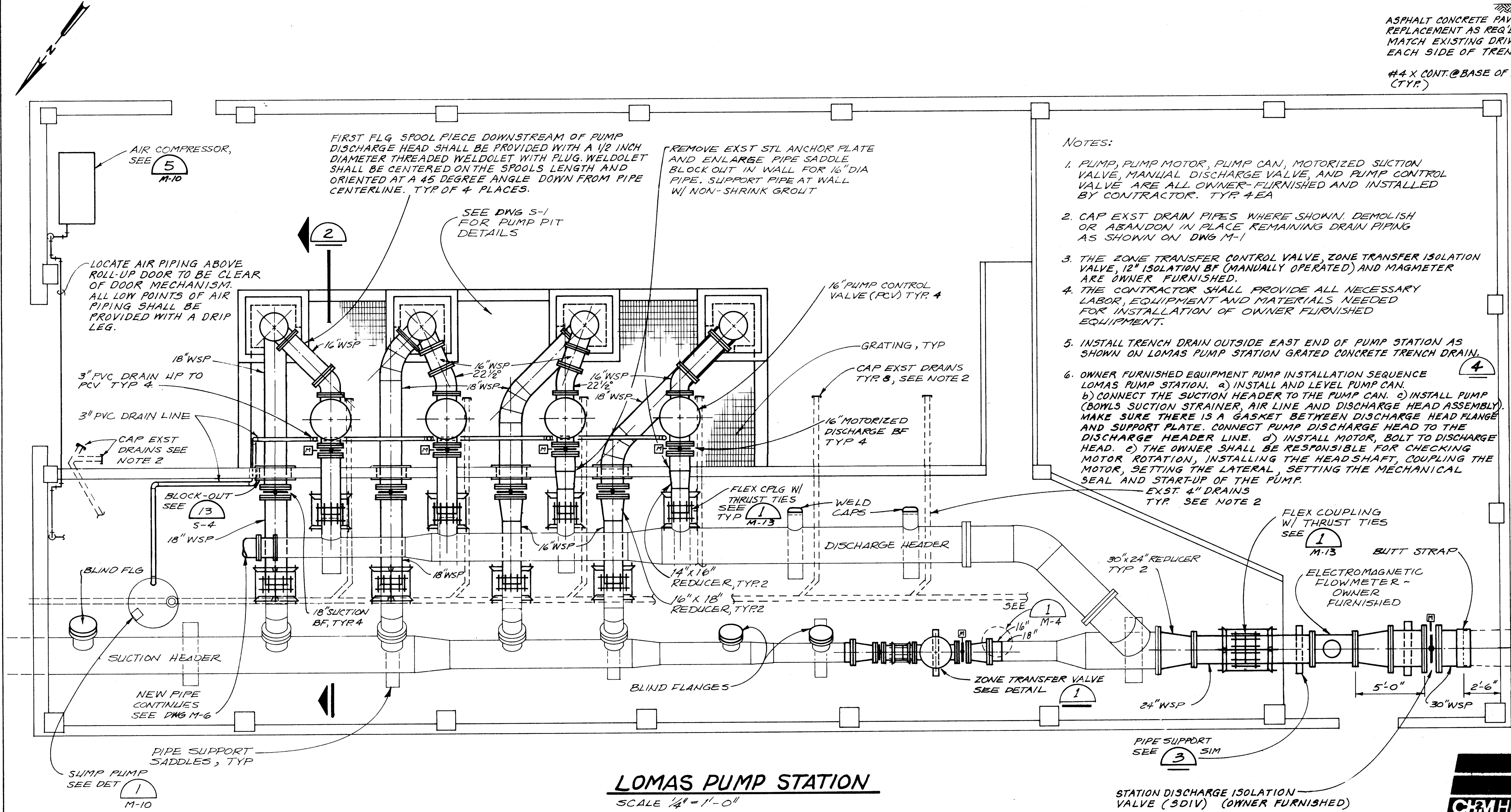
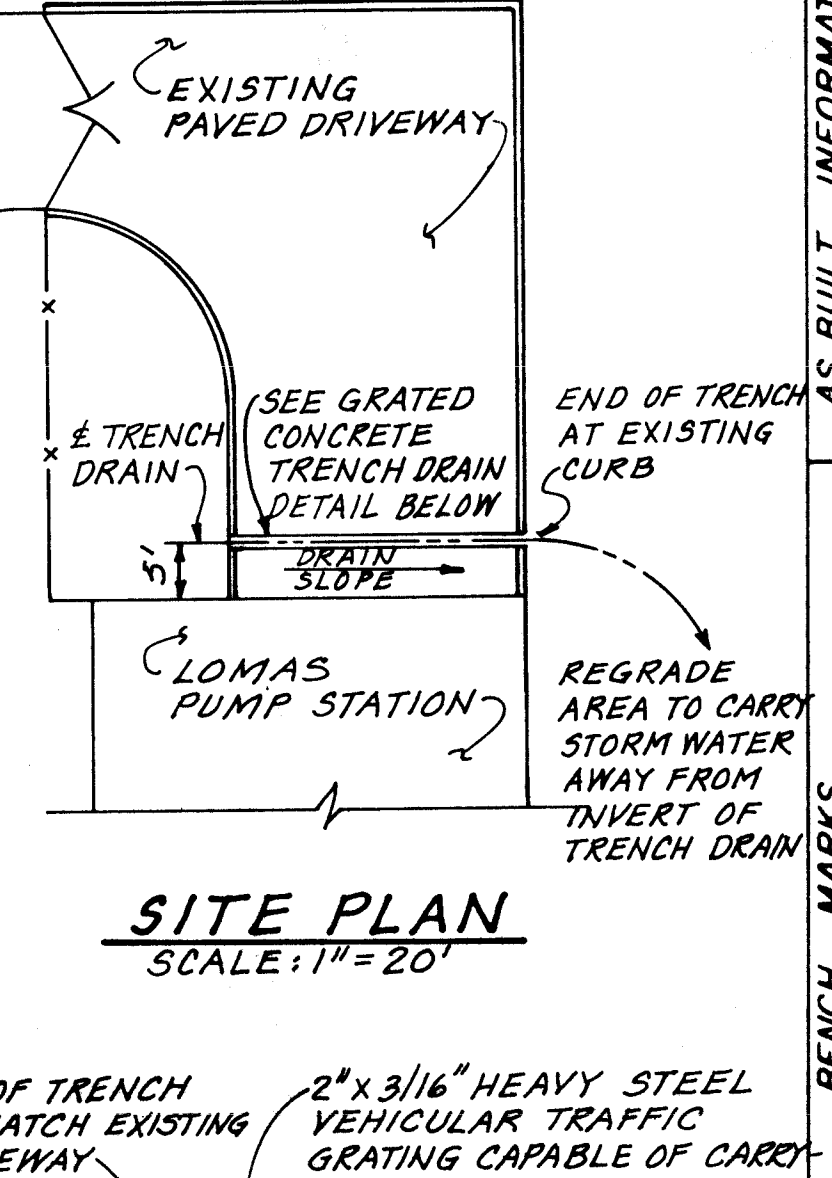
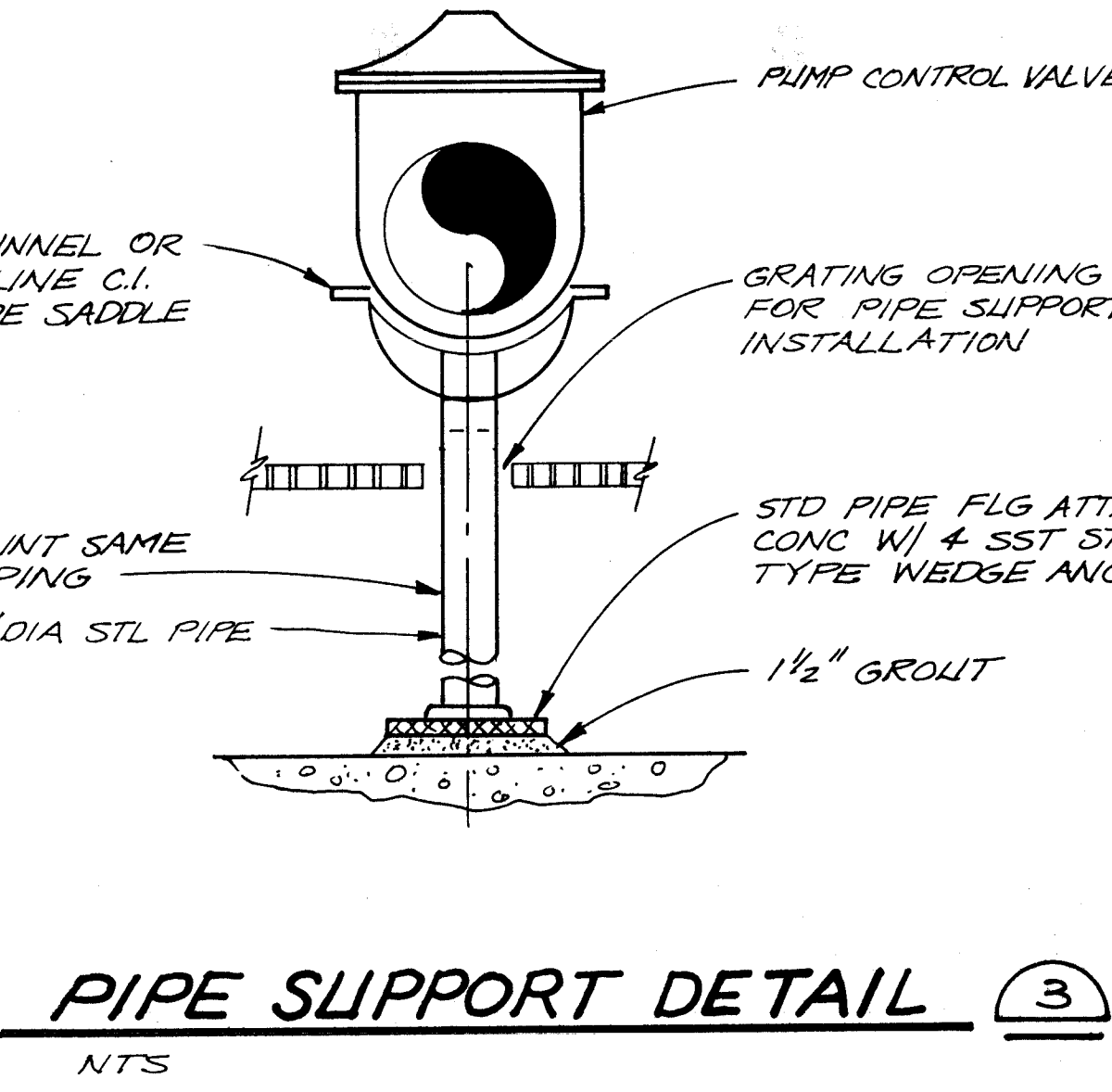
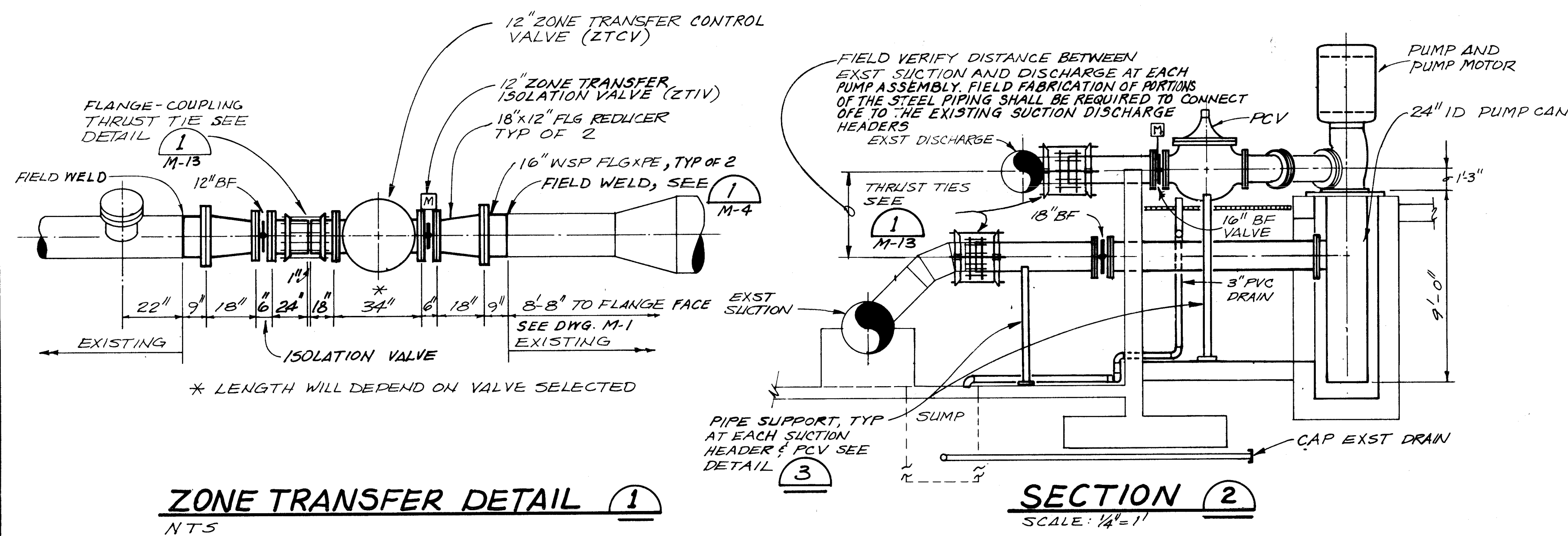
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TITLE: WINTER 1988 WATER SYSTEM REHABILITATION  
STRUCTURAL SECTION AND DETAILS  
SCHEDULE A & D

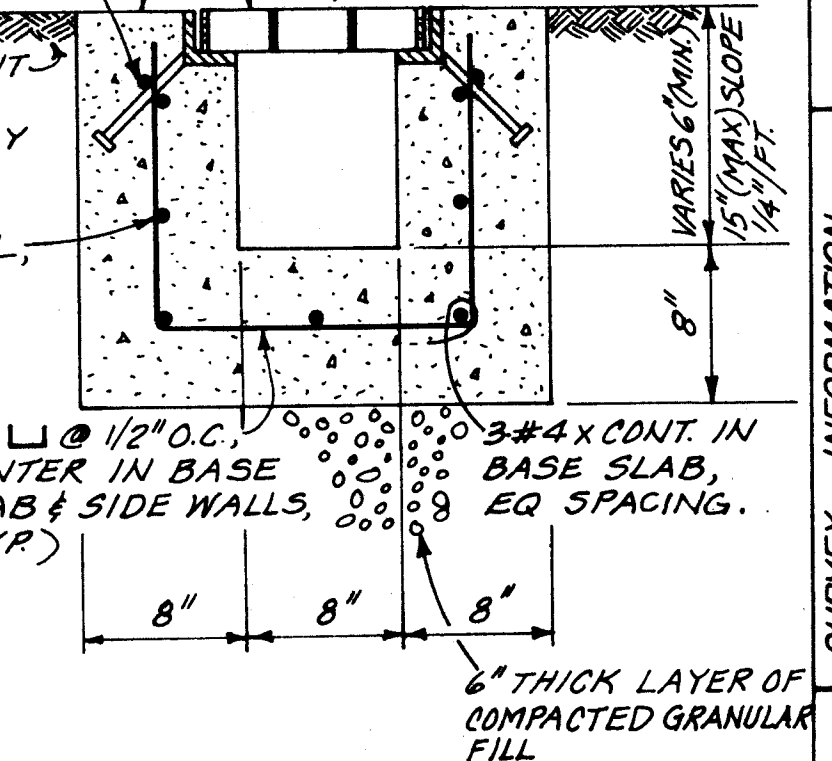
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| D/R Chair   |          |      |           |          |      |
| Trans. Dev  |          |      |           |          |      |
| Utility Dev |          |      |           |          |      |

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| DRAWING NO. | <b>S-4</b> | MAP NO. | - | SHEET | <b>7</b> | OF | <b>68</b> |
|-------------|------------|---------|---|-------|----------|----|-----------|





- NOTES:**
- PUMP, PUMP MOTOR, PUMP CAN, MOTORIZED SUCTION VALVE, MANUAL DISCHARGE VALVE, AND PUMP CONTROL VALVE ARE ALL OWNER FURNISHED AND INSTALLED BY CONTRACTOR. TYP 4 EA.
  - CAP EXST DRAIN PIPES WHERE SHOWN, DEMOLISH OR ABANDON IN PLACE, REMAINING DRAIN PIPING AS SHOWN ON DWG M-1.
  - THE ZONE TRANSFER CONTROL VALVE, ZONE TRANSFER ISOLATION VALVE, 12" ISOLATION BF (MANUALLY OPERATED) AND MAGNETIC ARE OWNER FURNISHED.
  - THE CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, EQUIPMENT AND MATERIALS NEEDED FOR INSTALLATION OF OWNER FURNISHED EQUIPMENT.
  - INSTALL TRENCH DRAIN OUTSIDE EAST END OF PUMP STATION AS SHOWN ON LOMAS PUMP STATION GRATED CONCRETE TRENCH DRAIN.
  - OWNER FURNISHED EQUIPMENT PUMP INSTALLATION SEQUENCE LOMAS PUMP STATION. a) INSTALL AND LEVEL PUMP CAN. b) CONNECT THE SUCTION HEADER TO THE PUMP CAN. c) INSTALL PUMP (BOWLS SUCTION STRAINER, AIR LINE AND DISCHARGE HEAD ASSEMBLY). MAKE SURE THERE IS A GASKET BETWEEN DISCHARGE HEAD FLANGE AND SUPPORT PLATE. CONNECT PUMP DISCHARGE HEAD TO THE DISCHARGE HEADER LINE. d) INSTALL MOTOR, BOLT TO DISCHARGE HEAD. e) THE OWNER SHALL BE RESPONSIBLE FOR CHECKING MOTOR ROTATION, INSTALLING THE HEAD SHAFT, COUPLING THE MOTOR, SETTING THE LATERAL, SETTING THE MECHANICAL SEAL AND START-UP OF THE PUMP. EXST 4" DRAINS TYP SEE NOTE 2.

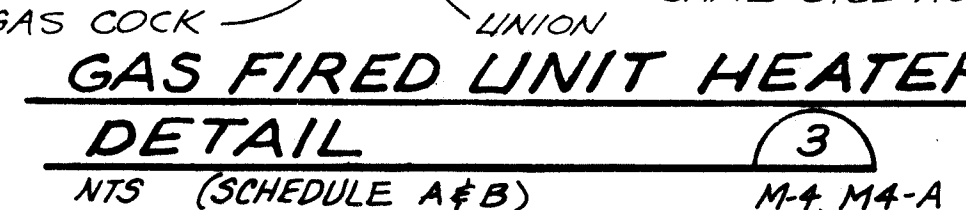
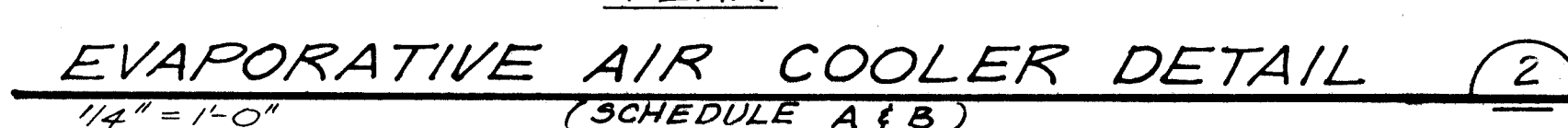
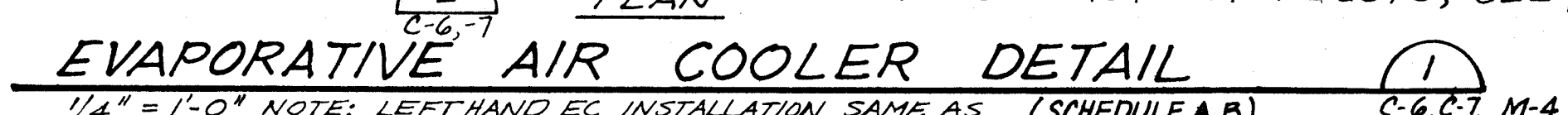
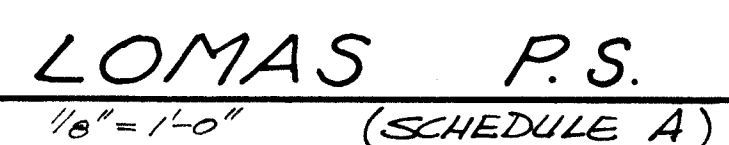
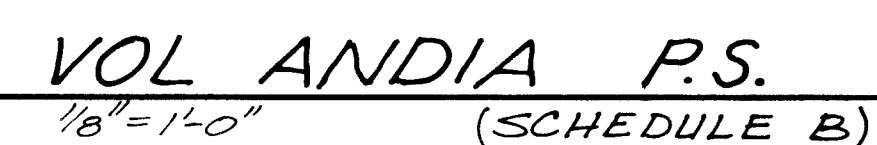


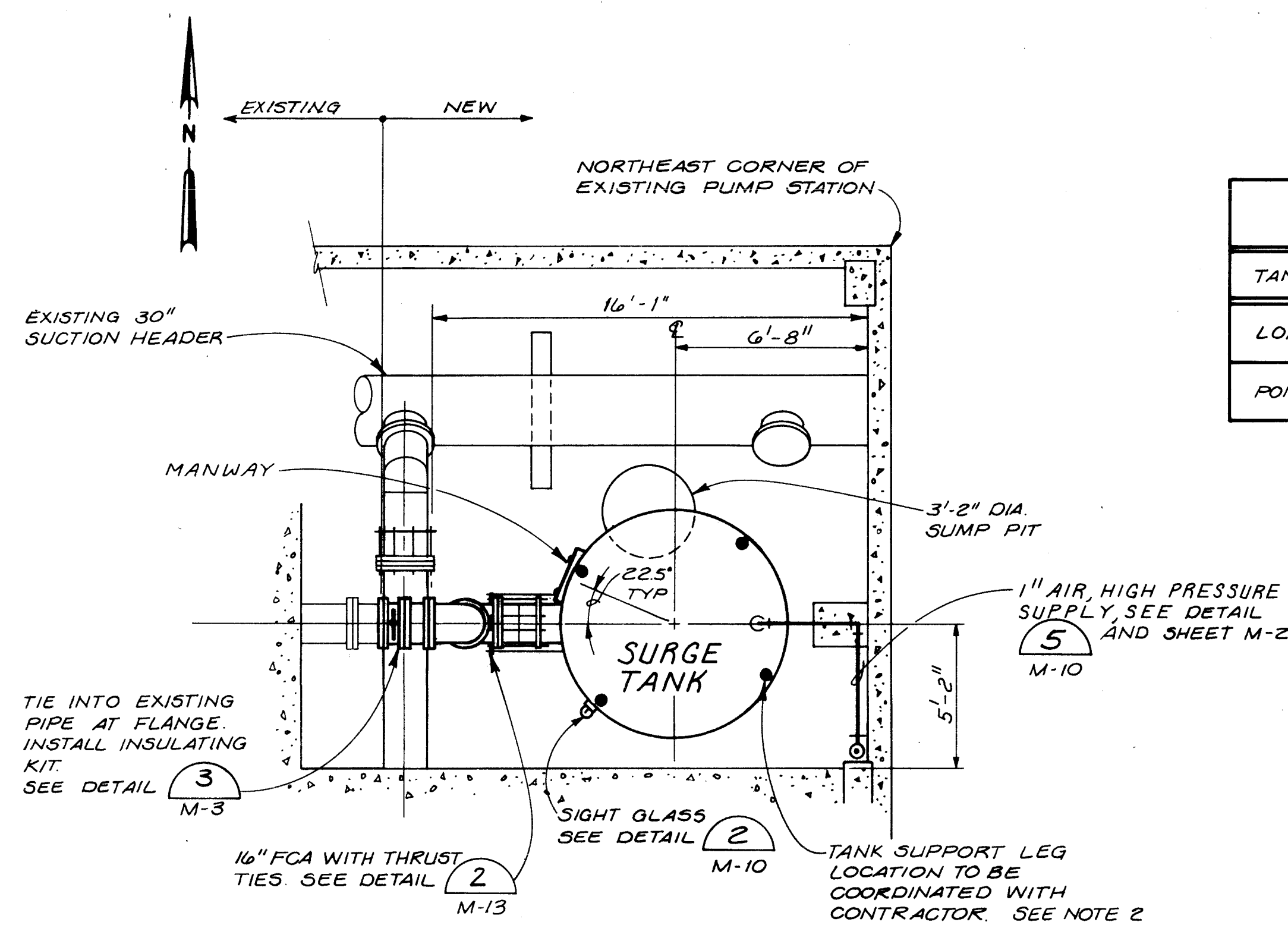
**VERIFY SCALES**  
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

| NO. | REVISIONS | DATE          | BY          |
|-----|-----------|---------------|-------------|
| 1   | DESIGN    | DATE 10/17/07 | BY J. TIGHE |
| 2   | DESIGN    | DATE 10/17/07 | BY J. TIGHE |
| 3   | DESIGN    | DATE 10/17/07 | BY J. TIGHE |

| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING GROUP                                        |          |         |           |          |         |
|------------------------------------------------------------------------------------------------------------|----------|---------|-----------|----------|---------|
| TITLE: WINTER 1988 WATER SYSTEM REHABILITATION<br>LOMAS PUMP STATION MODIFICATIONS & DETAILS<br>SCHEDULE A |          |         |           |          |         |
| APPROVALS                                                                                                  | ENGINEER | DATE    | APPROVALS | ENGINEER | DATE    |
| D.R.C. Chair                                                                                               |          |         |           |          |         |
| Trans. Dev.                                                                                                |          |         |           |          |         |
| Utility Dev.                                                                                               |          |         |           |          |         |
| DRAWING NO.                                                                                                | M-2      | MAP NO. | K-22      | SHEET    | 9 OF 68 |

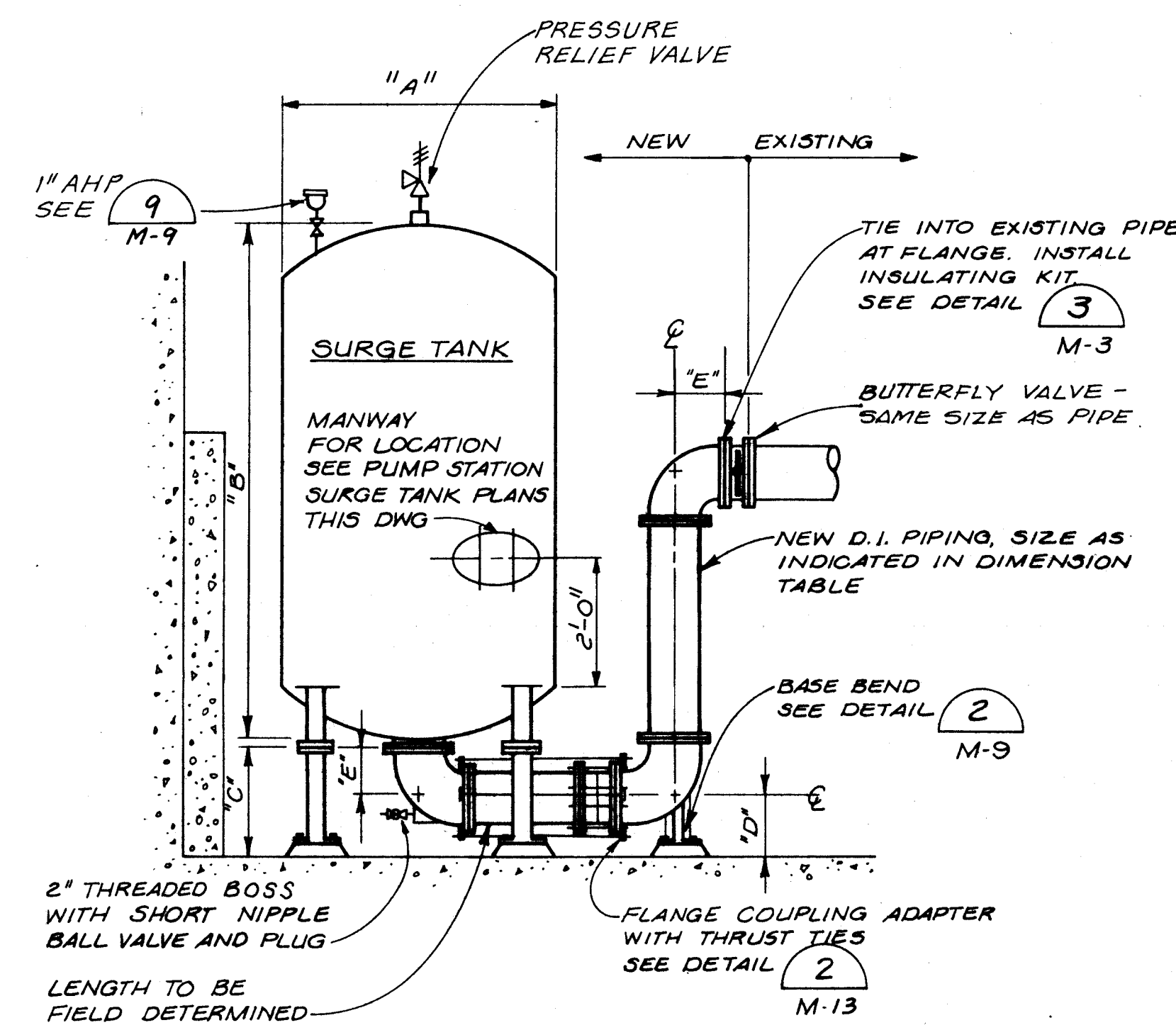


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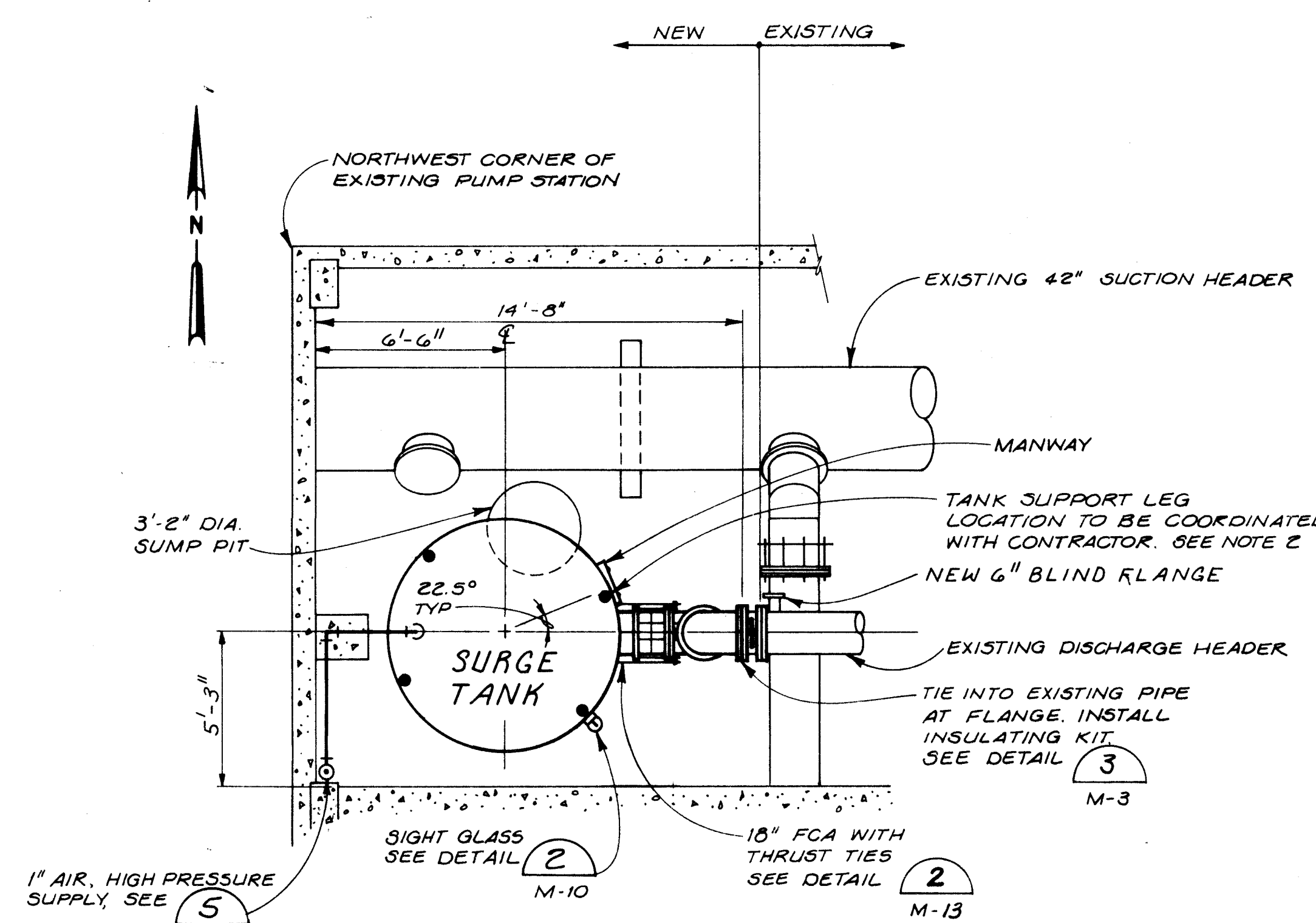


**LOMAS PUMP STATION SURGE TANK PLAN**  
1/4" = 1'-0" (SCHEDULE A)

| SURGE TANK DIMENSIONS |          |       |        |       |        |
|-----------------------|----------|-------|--------|-------|--------|
| TANK LOCATION         | PIPE DIA | "A"   | "B"    | "C"   | "D"    |
| LOMAS                 | 16"      | 8'-0" | 15'-4" | 3'-5" | 14'    |
| PONDEROSA             | 10"      | 8'-0" | 15'-4" | 3'-7" | 14'-6" |

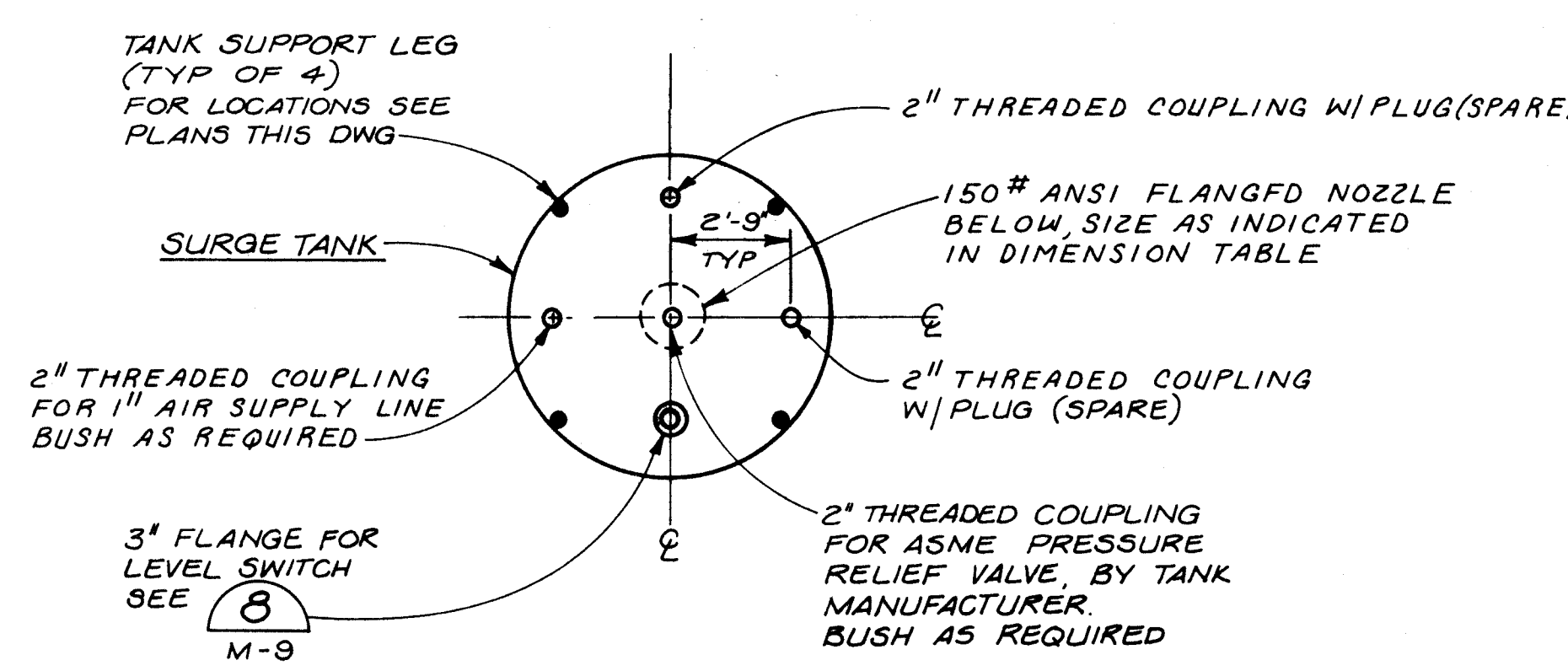


**SURGE TANK TYPICAL ELEVATION**  
NTS (SCHEDULE A & D)



**PONDEROSA PUMP STATION SURGE TANK PLAN**  
1/4" = 1'-0" (SCHEDULE D)

- NOTES:
- ALL DIMENSIONS TO BE FIELD VERIFIED
  - TANK MANUFACTURER TO COORDINATE TANK SUPPORT LEG LOCATION TO AVOID INTERFERENCE WITH SUMP OR SUMP PUMP



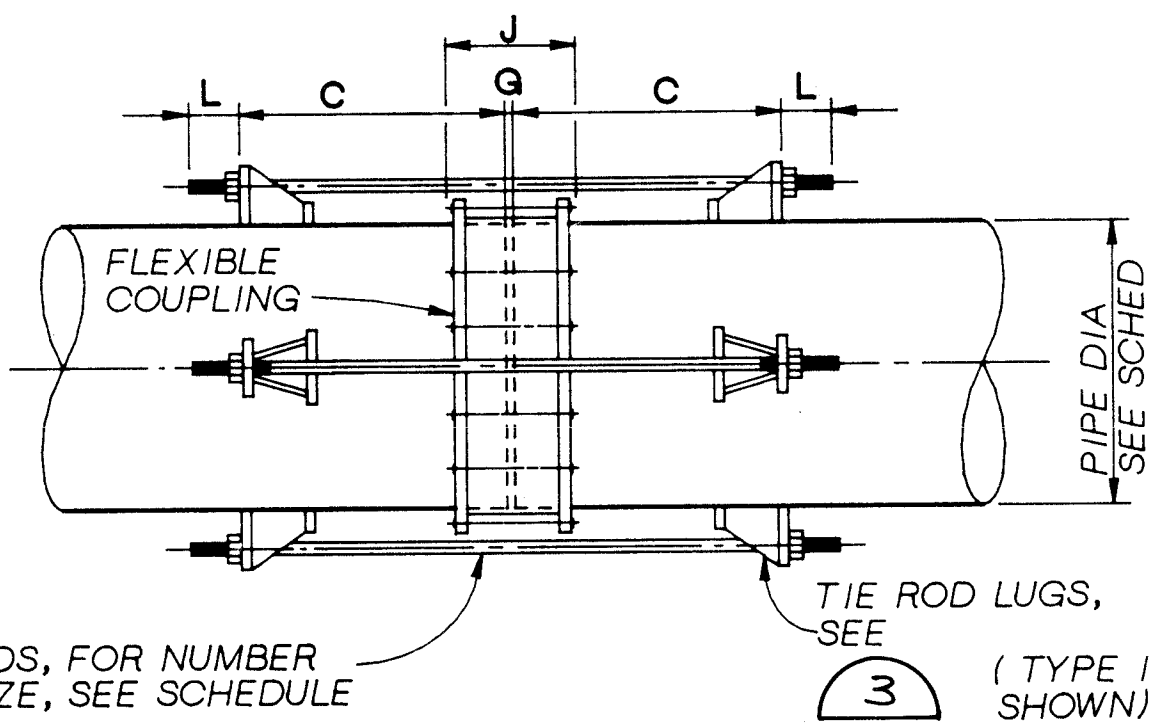
**SURGE TANK TYPICAL PLAN**  
1/4" = 1'-0" (SCHEDULE A & D)



|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING.  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

| AS BUILT INFORMATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      | BENCH MARKS |          |      | SURVEY INFORMATION |    |      | ENGINEER'S SEAL |    |      |           |          |      |           |          |      |              |  |  |  |  |  |             |  |  |  |  |  |              |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|----------|------|--------------------|----|------|-----------------|----|------|-----------|----------|------|-----------|----------|------|--------------|--|--|--|--|--|-------------|--|--|--|--|--|--------------|--|--|--|--|--|
| CONTRACT NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DATE     | NO.  | NO.         | BY       | DATE | NO.                | BY | DATE | NO.             | BY | DATE |           |          |      |           |          |      |              |  |  |  |  |  |             |  |  |  |  |  |              |  |  |  |  |  |
| WORK BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DATE     | NO.  | NO.         | BY       | DATE | NO.                | BY | DATE | NO.             | BY | DATE |           |          |      |           |          |      |              |  |  |  |  |  |             |  |  |  |  |  |              |  |  |  |  |  |
| INSPECTED BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DATE     | NO.  | NO.         | BY       | DATE | NO.                | BY | DATE | NO.             | BY | DATE |           |          |      |           |          |      |              |  |  |  |  |  |             |  |  |  |  |  |              |  |  |  |  |  |
| FIELD CHECKED BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DATE     | NO.  | NO.         | BY       | DATE | NO.                | BY | DATE | NO.             | BY | DATE |           |          |      |           |          |      |              |  |  |  |  |  |             |  |  |  |  |  |              |  |  |  |  |  |
| DESIGNED BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DATE     | NO.  | NO.         | BY       | DATE | NO.                | BY | DATE | NO.             | BY | DATE |           |          |      |           |          |      |              |  |  |  |  |  |             |  |  |  |  |  |              |  |  |  |  |  |
| CHECKED BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DATE     | NO.  | NO.         | BY       | DATE | NO.                | BY | DATE | NO.             | BY | DATE |           |          |      |           |          |      |              |  |  |  |  |  |             |  |  |  |  |  |              |  |  |  |  |  |
| <p>CITY OF ALBUQUERQUE<br/>PUBLIC WORKS DEPARTMENT<br/>ENGINEERING GROUP</p> <p>TITLE: WINTER 1988 WATER SYSTEM REHABILITATION<br/>LOMAS &amp; PONDEROSA SURGE TANKS<br/>SCHEDULE A &amp; D</p> <table border="1"> <tr> <th>APPROVALS</th> <th>ENGINEER</th> <th>DATE</th> <th>APPROVALS</th> <th>ENGINEER</th> <th>DATE</th> </tr> <tr> <td>D.R.C. Chair</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Trans. Dev.</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Utility Dev.</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>DRAWING NO. M-6 MAP NO. 1-22 SHEET 12 OF 22</p> |          |      |             |          |      |                    |    |      |                 |    |      | APPROVALS | ENGINEER | DATE | APPROVALS | ENGINEER | DATE | D.R.C. Chair |  |  |  |  |  | Trans. Dev. |  |  |  |  |  | Utility Dev. |  |  |  |  |  |
| APPROVALS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ENGINEER | DATE | APPROVALS   | ENGINEER | DATE |                    |    |      |                 |    |      |           |          |      |           |          |      |              |  |  |  |  |  |             |  |  |  |  |  |              |  |  |  |  |  |
| D.R.C. Chair                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |             |          |      |                    |    |      |                 |    |      |           |          |      |           |          |      |              |  |  |  |  |  |             |  |  |  |  |  |              |  |  |  |  |  |
| Trans. Dev.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |             |          |      |                    |    |      |                 |    |      |           |          |      |           |          |      |              |  |  |  |  |  |             |  |  |  |  |  |              |  |  |  |  |  |
| Utility Dev.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |             |          |      |                    |    |      |                 |    |      |           |          |      |           |          |      |              |  |  |  |  |  |             |  |  |  |  |  |              |  |  |  |  |  |

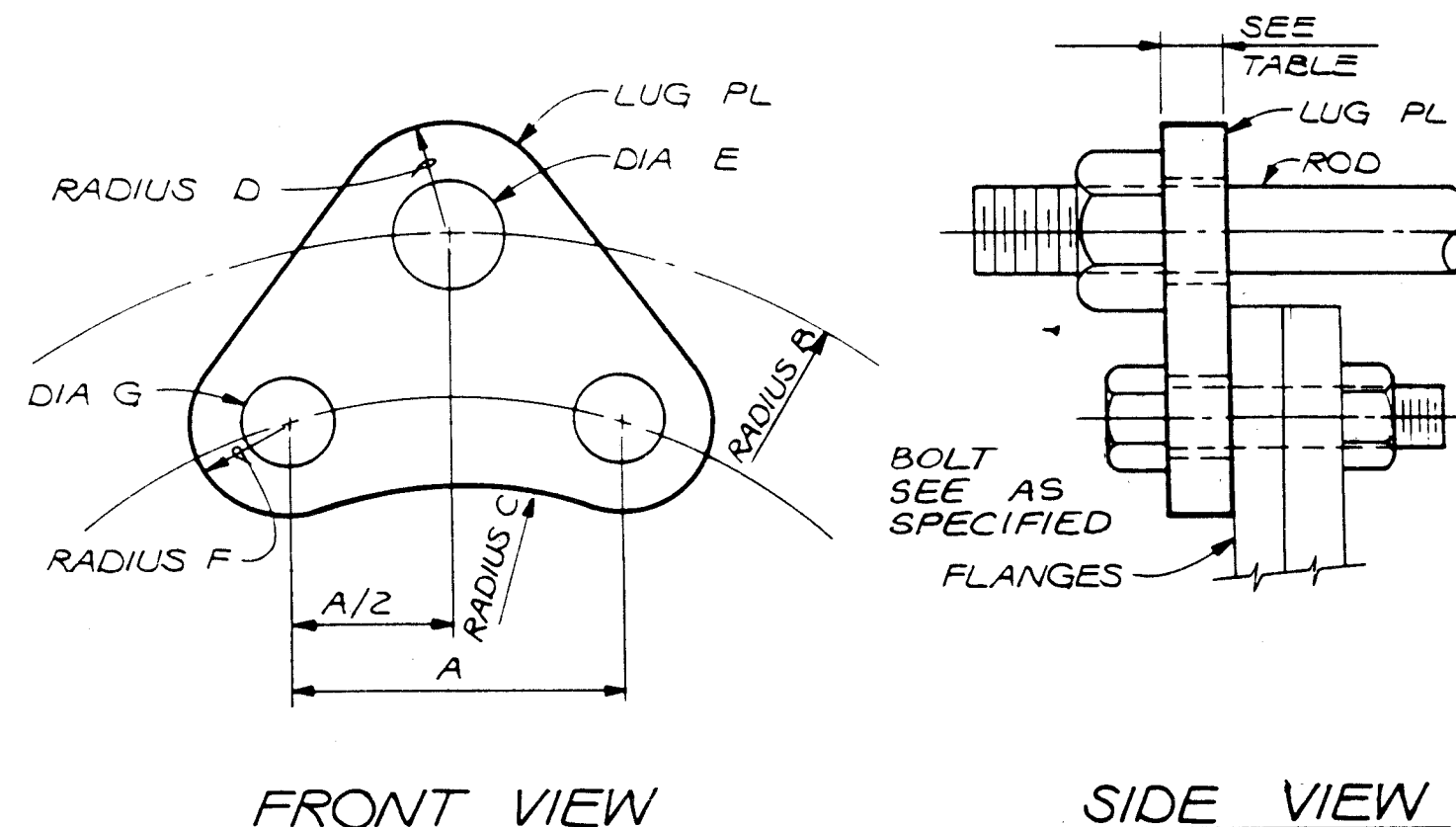


#### NOTES:

1. THE MIDDLE RING LENGTH OF THE FLEXIBLE COUPLING SHALL BE AS SPECIFIED.
2. THE CONTRACTOR SHALL DETERMINE THE LENGTH "J" (COUPLING BOLT LENGTH) FROM MANUFACTURER'S CATALOGS USING THE SPECIFIED MIDDLE RING LENGTH.
3. "G" = MANUFACTURER'S RECOMMENDED SPACE BETWEEN ENDS OF PIPE.
4. "C" = J+Z+1 INCH, (ROUND THIS VALUE UP TO NEXT EVEN INCH), MINIMUM. (FOR Z DIMENSIONS, SEE LUG SCHEDULE.)
5. TIE ROD LENGTH = 2L+2C+G.

### TYPICAL THRUST TIE DETAIL FOR STEEL PIPE

NTS (SCHEDULE A) M-2



FRONT VIEW

SIDE VIEW

| FLANGE LUG TIE ROD SCHEDULE |                      |              |                     |       |       |       |       |       |       |       |       |   |
|-----------------------------|----------------------|--------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|---|
| TIE ROD DIA. OR BOLT SIZE   | 5/8                  | 3/4          | 7/8                 | 1     | 1 1/8 | 1 1/4 | 1 1/2 | 1 3/4 | 2     | 2 1/4 | 2 3/4 | 3 |
| DIA G OR E                  | 3/4                  | 7/8          | 1                   | 1 1/8 | 1 1/4 | 1 3/8 | 1 5/8 | 2     | 2 1/4 | 2 1/2 | 2 3/4 | 3 |
| RADIUS D OF F               | 7/8                  | 1            | 1 1/8               | 1 1/4 | 1 3/8 | 1 1/2 | 1 3/4 | 2     | 2 1/4 | 2 3/8 | 2 1/2 |   |
| TEST PRESSURE (PSI)         | 25                   | 50           | 100                 | 150   | 225   | 375   |       |       |       |       |       |   |
| PIPE DIA.                   | MIN. PLATE THICKNESS | TIE ROD DIA. | MIN NUMBER REQUIRED |       |       |       |       |       |       |       |       |   |
| 16                          | 7/8                  | 1 1/8        | 2                   | 2     | 2     | 3     | 4     | —     | —     | —     | —     | — |
| 18                          | 7/8                  | 1 1/8        | 2                   | 2     | 3     | 4     | 5     | —     | —     | —     | —     | — |
| 24                          | 1 1/8                | 1 1/4        | 2                   | 2     | 3     | 4     | 6     | —     | —     | —     | —     | — |

#### NOTES:

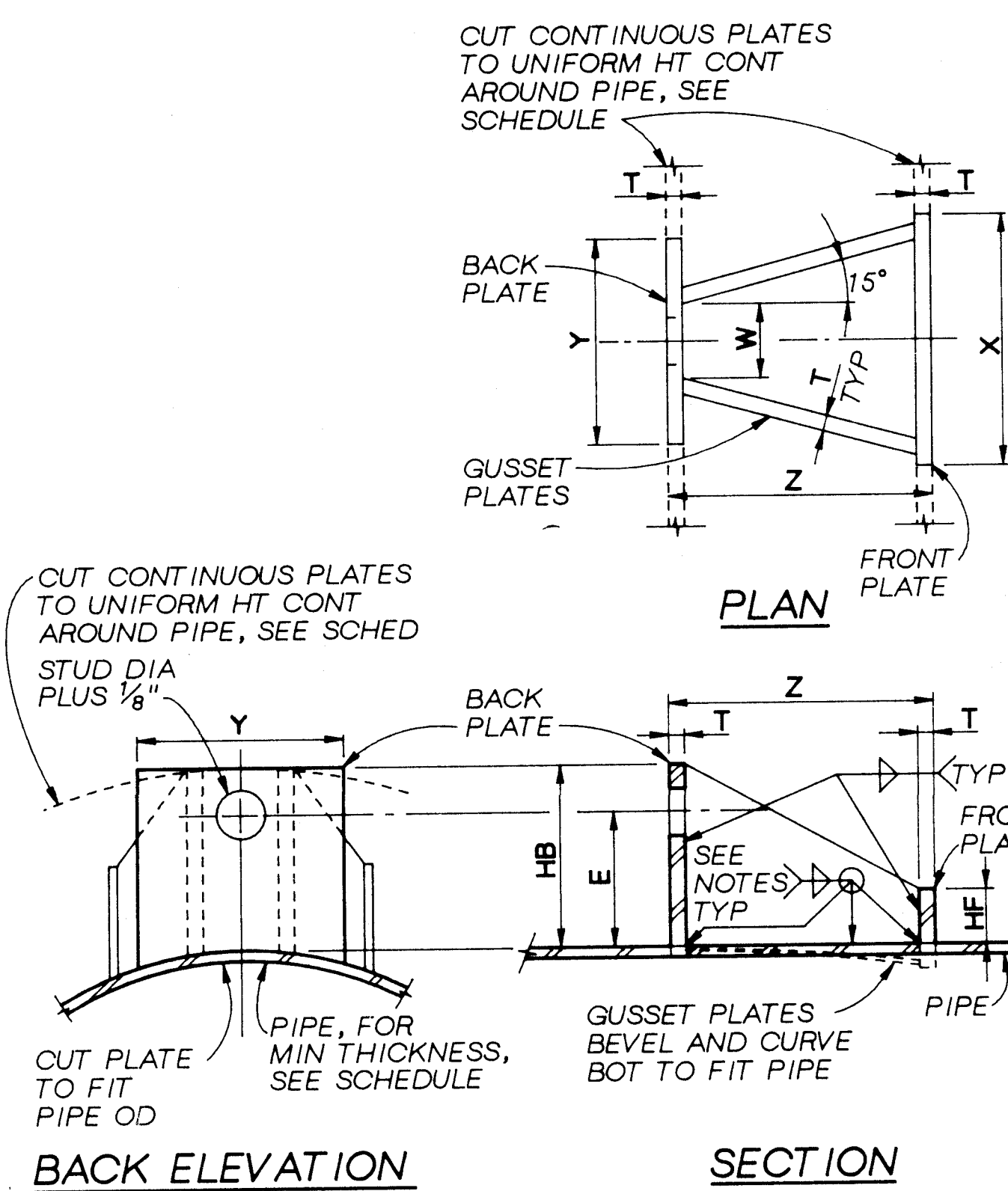
1. ALL DIMENSIONS IN INCHES.
2. DIMENSION 'A' AS REQUIRED BY FLANGE SPECIFIED.
3. RADIUS 'C' EQUALS 1/2 X (BOLT CIRCLE) + F.
4. RADIUS 'B' EQUALS 1/2 X (FLANGE O.D.) + D + 1/8.
5. INSTALL TIE ROD ASSEMBLIES SUCH THAT ALL RODS ARE EQUALLY SPACED AROUND FLANGE. ON PIPING 20 INCHES AND LARGER RODS MAY BE GROUPED IN PAIRS BUT GROUPS MUST BE EQUALLY SPACED AROUND FLANGE. THE TOTAL NUMBER OF THE RODS SHALL BE INCREASED ABOVE THAT TABULATED AS NECESSARY TO MEET SPACING REQUIREMENTS.
6. TIE RODS SHALL CONFORM TO ASTM A193 GRADE B7.
7. NUTS SHALL CONFORM TO ASTM A194 GRADE 2H.
8. PLATE SHALL CONFORM TO ASTM A283 GRADE D.
9. THIS DETAIL SUITABLE ONLY FOR EXPOSED PIPING.
10. FLANGE LOGS MUST BE SHOP FABRICATED.

### FLANGE LUG

NTS (SCHEDULE D) M-6.7

#### NOTES:

1. LUG SCHEDULE DIMENSIONS IN INCHES.
2. TIE RODS SHALL CONFORM TO ASTM A193 GRADE B7.
3. NUTS SHALL CONFORM TO ASTM A194 GRADE 2H.
4. PLATE SHALL CONFORM TO ASTM A283 GRADE D.
5. TIE ROD NUTS SHALL BE TIGHTENED GRADUALLY AND EQUALLY IN STAGES TO PREVENT UNEVEN ALIGNMENT AND TO ALLOW EQUAL STRESS ON ALL TIE RODS UNDER PRESSURE. TIGHTEN UNTIL SNUG. THREADS SHALL PROTRUDE FROM NUTS. PEEN THREADS AFTER TIGHTENING NUTS.
6. TIE ROD LUGS SHALL BE SPACED EQUALLY AROUND PIPE.
7. FILLET WELDS SHALL MEET THE MINIMUM REQUIREMENTS OF THE AISC SPECIFICATION EXCEPT AS FOLLOWS: FILLET WELDS SHALL BE 1/4-INCH MINIMUM EXCEPT WHEN WELDING 3/16-INCH PLATE WHERE THEY SHALL BE 3/16-INCH.
8. CATHODIC PROTECTION FOR FLEXIBLE COUPLINGS REQUIRED WHERE NOTED ON PLANS OR IN THE SPECIFICATIONS.
9. CONTRACTOR SHALL USE DATA FOR ONLY THOSE PIPE SIZES AND TEST PRESSURES SPECIFIED IN THIS CONTRACT.
10. LUG TYPE I IS AS SHOWN IN DETAIL. LUG TYPE II HAS A CONTINUOUS BACK PLATE AROUND PIPE. LUG TYPE III HAS CONTINUOUS FRONT AND BACK PLATES AROUND PIPE.
11. TIE RODS SHALL NOT BE ATTACHED TO A PIPE WHEN THE WALL THICKNESS IS LESS THAN THE MINIMUM SHOWN ON THE TIE ROD SCHEDULE.
12. THE MINIMUM PIPE WALL THICKNESSES SHOWN ARE TO ENSURE PROPER PERFORMANCE OF THE THRUST TIE LUG. PIPE WALL THICKNESSES GREATER THAN SHOWN IN THE TABLE MAY BE REQUIRED AND MAY BE SHOWN ELSEWHERE OR SPECIFIED ELSEWHERE TO RESIST INTERNAL PRESSURES.



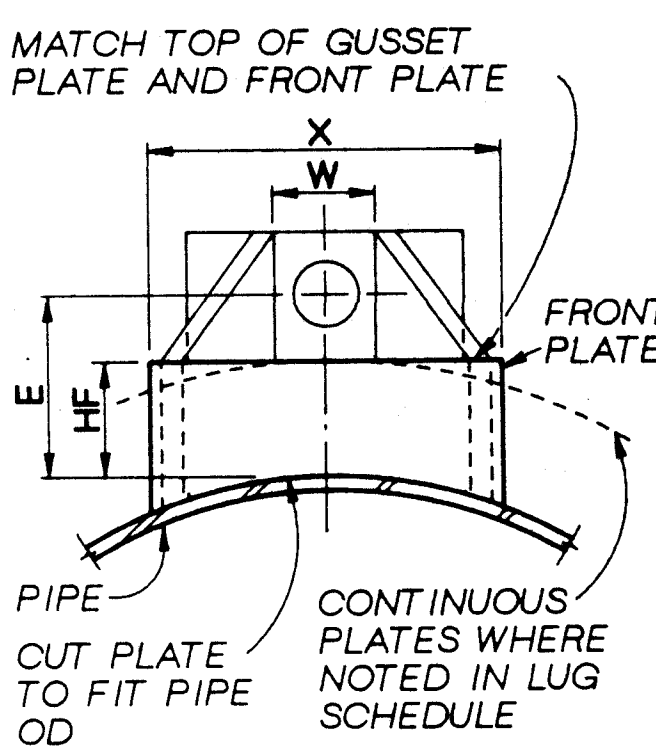
SECTION

### TIE ROD LUG

NTS (SCHEDULE A) M-3

| *SEE NOTES      |                                   | TIE ROD SCHEDULE    |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |  |
|-----------------|-----------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--|
| TEST PRESSURE   | 25 PSI                            | 50 PSI              | 100 PSI             | 150 PSI             | 225 PSI             | 375 PSI             |                     |                     |                     |                     |                     |                     |  |
| PIPE DIA. (IN.) | MINIMUM PIPE WALL THICKNESS (IN.) | TIE RODS DIA. (IN.) | TIE RODS DIA. (IN.) | TIE RODS DIA. (IN.) | TIE RODS DIA. (IN.) | TIE RODS DIA. (IN.) | TIE RODS DIA. (IN.) | TIE RODS DIA. (IN.) | TIE RODS DIA. (IN.) | TIE RODS DIA. (IN.) | TIE RODS DIA. (IN.) | TIE RODS DIA. (IN.) |  |
| 6               | 3/16                              | —                   | —                   | 5/8                 | 2                   | 5/8                 | 2                   | 5/8                 | 2                   | 5/8                 | 2                   | 5/8                 |  |
| 8               | 3/16                              | —                   | —                   | 5/8                 | 2                   | 5/8                 | 2                   | 5/8                 | 2                   | 5/8                 | 2                   | 3/4                 |  |
| 10              | 3/16                              | —                   | —                   | 5/8                 | 2                   | 5/8                 | 2                   | 3/4                 | 2                   | 7/8                 | 2                   | —                   |  |
| 12              | 3/16                              | 5/8                 | 2                   | 5/8                 | 2                   | 5/8                 | 2                   | 3/4                 | 2                   | 7/8                 | 4                   | —                   |  |
| 14              | 3/16                              | 5/8                 | 2                   | 5/8                 | 2                   | 3/4                 | 2                   | 3/4                 | 2                   | 3/4                 | 4                   | 1                   |  |
| 16              | 3/16                              | 5/8                 | 2                   | 5/8                 | 2                   | 3/4                 | 2                   | 7/8                 | 2                   | 7/8                 | 4                   | 1                   |  |
| 18              | 1/4                               | 5/8                 | 2                   | 5/8                 | 2                   | 7/8                 | 2                   | 1                   | 2                   | 1                   | 4                   | 1-1/4               |  |
| 20              | 1/4                               | 5/8                 | 2                   | 3/4                 | 2                   | 7/8                 | 2                   | 7/8                 | 4                   | 1                   | 4                   | 1-1/4               |  |
| 22              | 1/4                               | 5/8                 | 2                   | 3/4                 | 2                   | 3/4                 | 4                   | 7/8                 | 4                   | 1                   | 4                   | 1-1/2               |  |
| 24              | 1/4                               | 5/8                 | 2                   | 3/4                 | 2                   | 7/8                 | 4                   | 1                   | 4                   | 1                   | 6                   | 1-1/2               |  |
| 30              | 1/4                               | 5/8                 | 4                   | 3/4                 | 4                   | 7/8                 | 6                   | 1                   | 6                   | 1                   | 8                   | 1-1/2               |  |
| 36              | 1/4                               | 3/4                 | 4                   | 7/8                 | 4                   | 1                   | 6                   | 1                   | 8                   | 1-1/4               | 8                   | 1-1/2               |  |
| 42              | 1/4                               | 3/4                 | 4                   | 1                   | 4                   | 1                   | 8                   | 1-1/4               | 8                   | 1-1/2               | 8                   | 1-3/4               |  |
| 48              | 5/16                              | 7/8                 | 4                   | 7/8                 | 8                   | 1                   | 10                  | 1-1/4               | 10                  | 1-1/2               | 10                  | 1-3/4               |  |
| 54              | 5/16                              | 3/4                 | 6                   | 7/8                 | 8                   | 1                   | 12                  | 1-1/4               | 12                  | 1-1/2               | 12                  | 1-3/4               |  |
| 60              | 11/32                             | 7/8                 | 6                   | 1                   | 8                   | 1-1/4               | 10                  | 1-1/4               | 14                  | 1-1/2               | 14                  | 1-3/4               |  |
| 72              | 3/8                               | 7/8                 | 8                   | 1                   | 10                  | 1-1/4               | 12                  | 1-1/2               | 14                  | 1-3/4               | 14                  | 2                   |  |
| 78              | 13/32                             | 7/8                 | 8                   | 1                   | 12                  | 1-1/4               | 14                  | 1-1/2               | 16                  | 1-3/4               | 16                  | 2                   |  |
| 84              | 7/16                              | 7/8                 | 10                  | 1-1/4               | 10                  | 1-1/2               | 14                  | 1-3/4               | 14                  | 1-3/4               | 18                  | 2                   |  |
| 96              | 7/16                              | 1                   | 10                  | 1-1/4               | 12                  | 1-1/2               | 16                  | 1-3/4               | 16                  | 2                   | 16                  | —                   |  |
| 108             | 1/2                               | 1                   | 12                  | 1-1/4               | 12                  | 1-3/4               | 12                  | 2                   | 14                  | 2                   | 22                  | —                   |  |
| 120             | 5/8                               | 1-1/4               | 8                   | 1-1/2               | 10                  | 1-3/4               | 16                  | 2                   | 18                  | —                   | —                   | —                   |  |
| 132             | 23/32                             | 1-1/4               | 6                   | 1-3/4               | 10                  | 1-3/4               | 18                  | 2                   | 22                  | —                   | —                   | —                   |  |

| LUG SCHEDULE |          |     |       |        |       |        |       |       |       |   |  |
|--------------|----------|-----|-------|--------|-------|--------|-------|-------|-------|---|--|
| STUD DIA.    | LUG TYPE | T   | W     | X      | Y     | Z      | HB    | E     | HF    | L |  |
| 5/8          | I        | 3/8 | 1-3/8 | 4-1/16 | 4-1/2 | 3-3/8  | 3-7/8 | 3     | 1-3/4 | 3 |  |
| 3/4          | I        | 3/8 | 1-1/2 | 5      | 4-1/2 | 5      | 4-1/8 | 3-1/8 | 1-3/4 | 3 |  |
| 7/8          | I        | 1/2 | 1-5/8 | 5-1/2  | 4-1/2 | 5-1/8  | 4-1/4 | 3-1/8 | 1-3/4 | 4 |  |
| 1            | II       | 1/2 | 1-3/4 | 5-3/4  | Cont  | 6      | 4-1/2 | 3-1/4 | 2     | 4 |  |
| 1-1/4        | II       | 5/8 | 2     | 7-1/4  | Cont  | 7-5/8  | 5     | 3-3/4 | 2     | 4 |  |
| 1-1/2        | II       | 3/4 | 2-1/4 | 9      | Cont  | 10-1/8 | 5-1/2 | 3-7/8 | 2     | 4 |  |
| 1-3/4        | III      | 1   | 2-1/2 | Cont   | Cont  | 11-7/8 | 5-7/8 | 4     | 2-1/4 | 4 |  |
| 2            | III      | 1   | 2-3/4 | Cont   | Cont  | 13-7/8 | 6-1/4 | 4-1/4 | 2-1/2 | 4 |  |



FRONT ELEVATION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  
26-26/18 11/497

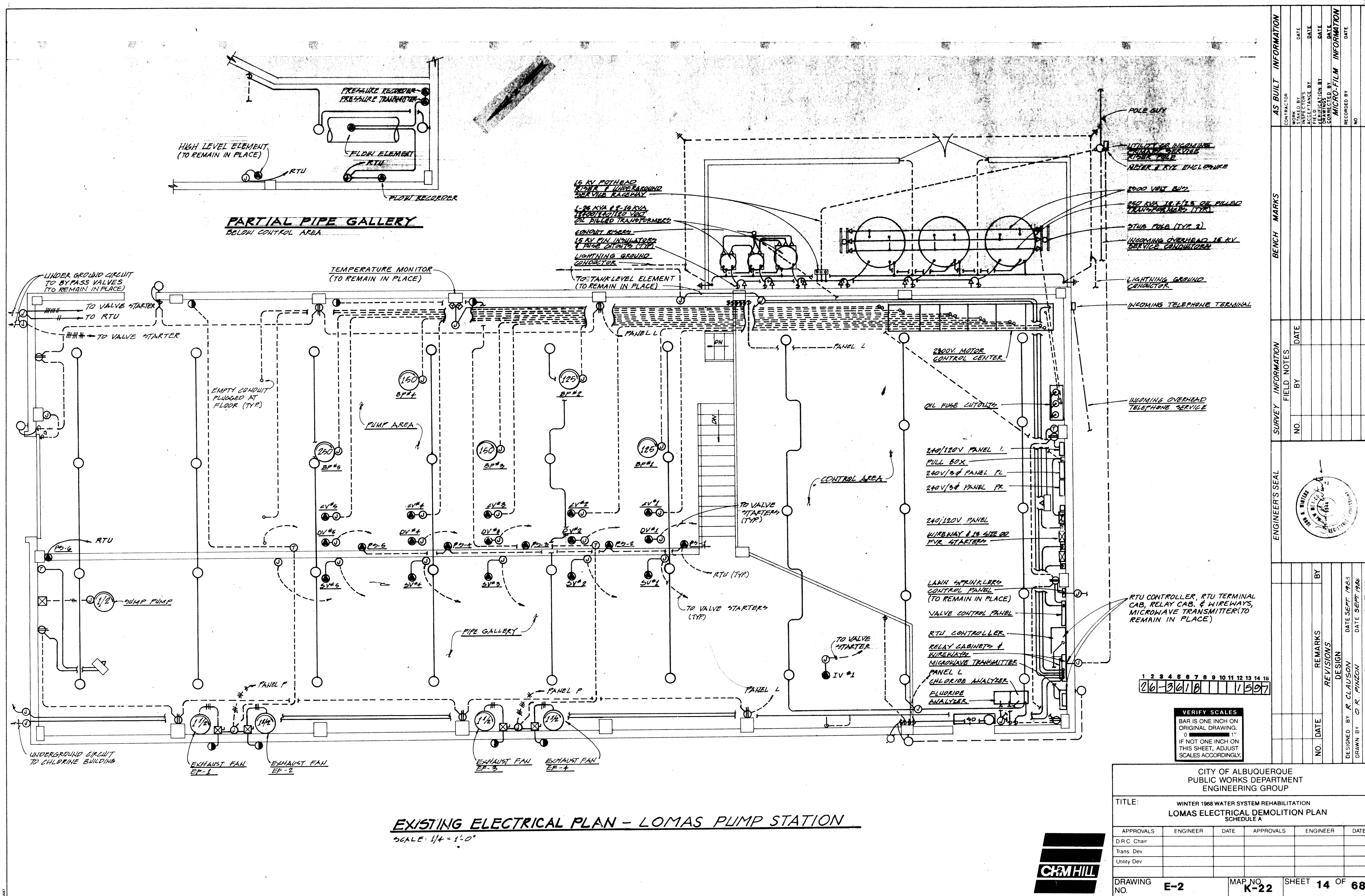
VERIFY SCALES  
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| AS BUILT INFORMATION   |      |             |      |
|------------------------|------|-------------|------|
| CONTRACT NO.           | DATE | BY          | DATE |
| REVISIONS              | DATE | BY          | DATE |
| DESIGNED BY            | DATE | CHECKED BY  | DATE |
| DRAWN BY               | DATE | REVIEWED BY | DATE |
| MICRO-FILM INFORMATION |      |             |      |
| NO.                    | DATE | BY          | DATE |

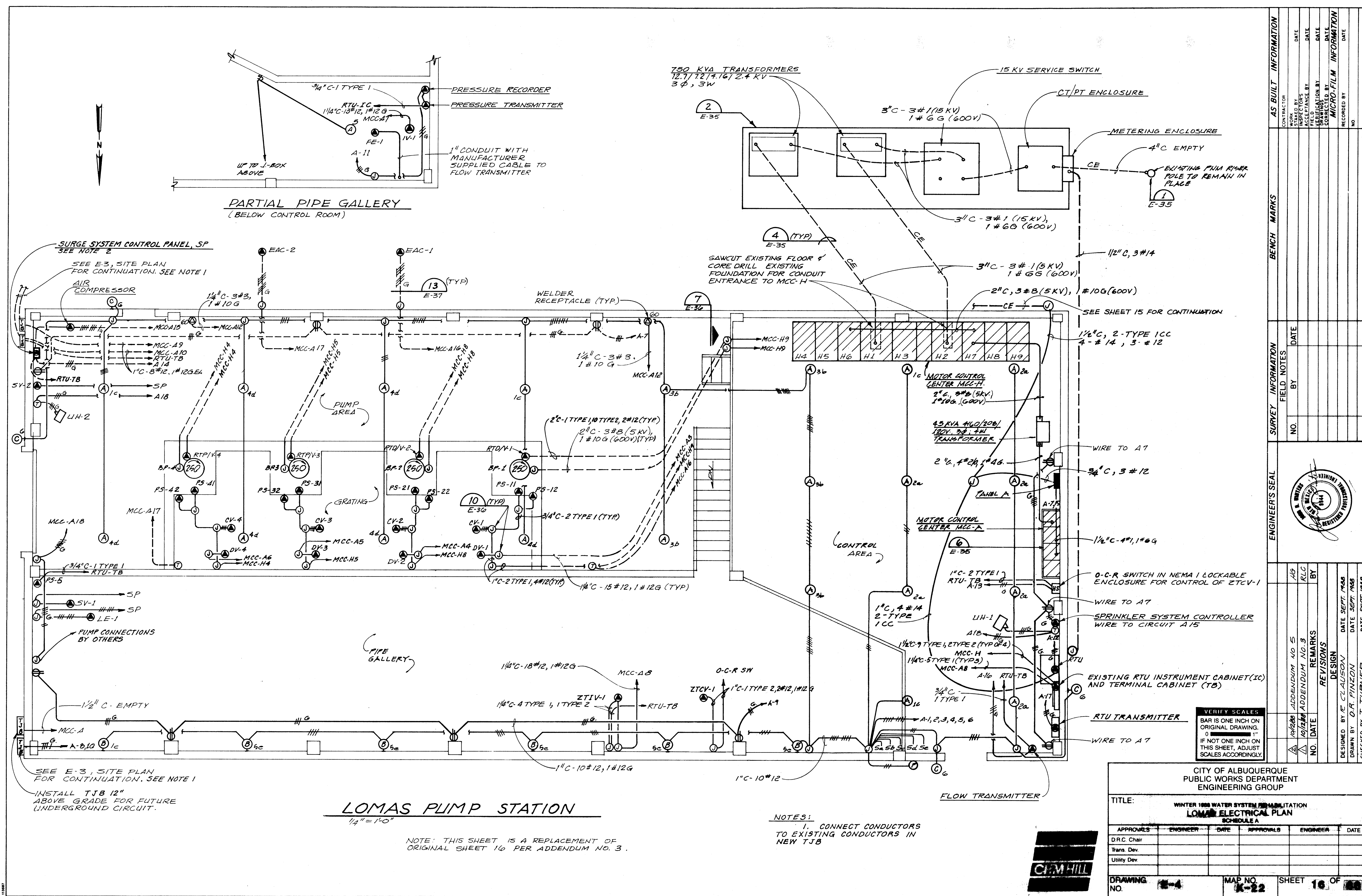
CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

| TITLES       |          |         |                |
|--------------|----------|---------|----------------|
| APPROVALS    | ENGINEER | DATE    | APPROVALS      |
| D.R.C. Chair |          |         | ENGINEER       |
| Trans. Dev   |          |         | DATE           |
| Utility Dev  |          |         |                |
| DRAWING NO.  | M-13     | MAP NO. | SHEET 13 OF 68 |



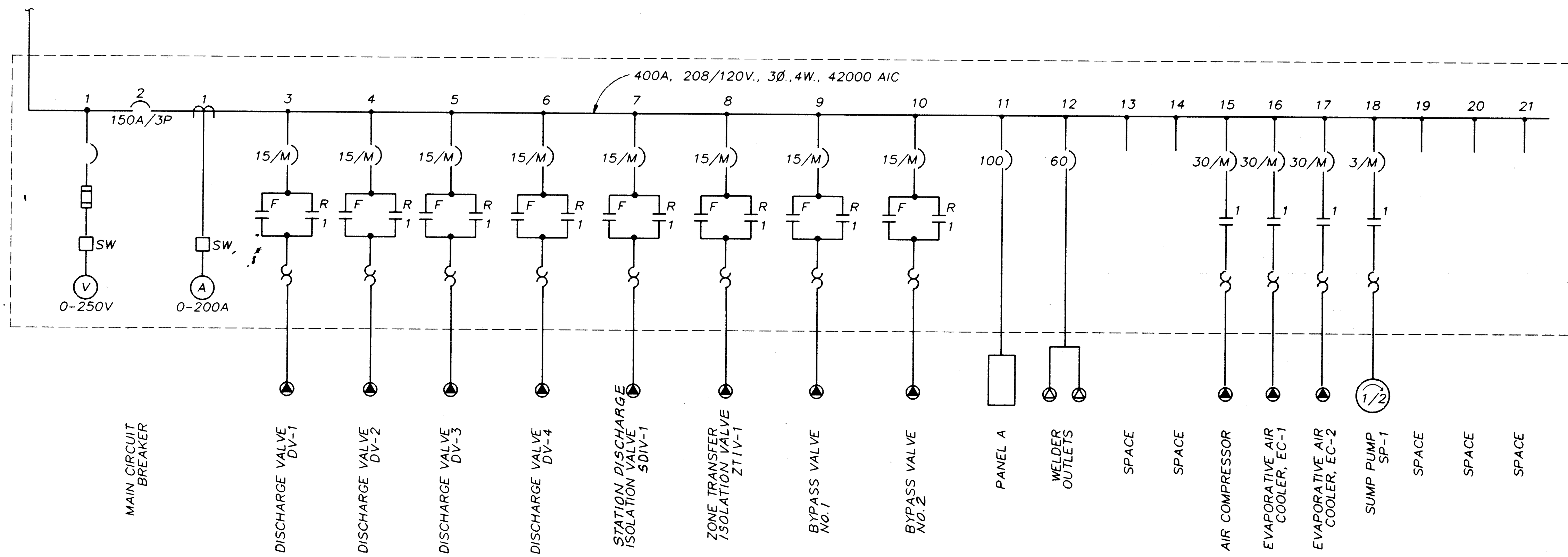






|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 2 | 6 | - | 3 | 6 | 1 | 8 |   |   |    |    | 1  | 7  | 9  | 7  |





MOTOR CONTROL CENTER ONE-LINE DIAGRAM

|   |                      |   |                                    |    |                             |    |
|---|----------------------|---|------------------------------------|----|-----------------------------|----|
| 1 | DISCHARGE VALVE DV-3 | 5 | BYPASS VALVE                       | 9  | EVAPORATIVE AIR COOLER EC-1 | 16 |
| 2 | MAIN CIRCUIT BREAKER | 6 | BYPASS VALVE                       | 10 | EVAPORATIVE AIR COOLER EC-2 | 17 |
| 3 | DISCHARGE VALVE DV-1 | 7 | ISOLATION VALVE IV-1               | 11 | SUMP PUMP SP-1              | 18 |
| 4 | DISCHARGE VALVE DV-2 | 8 | ZONE TRANSFER CONTROL VALVE ZTCV-1 | 12 | SPACE                       | 19 |
|   |                      |   |                                    | 13 | SPACE                       | 20 |
|   |                      |   |                                    | 14 | SPACE                       | 21 |
|   |                      |   |                                    | 15 | SPACE                       |    |

MOTOR CONTROL CENTER MCC-A ELEVATION

LOMAS

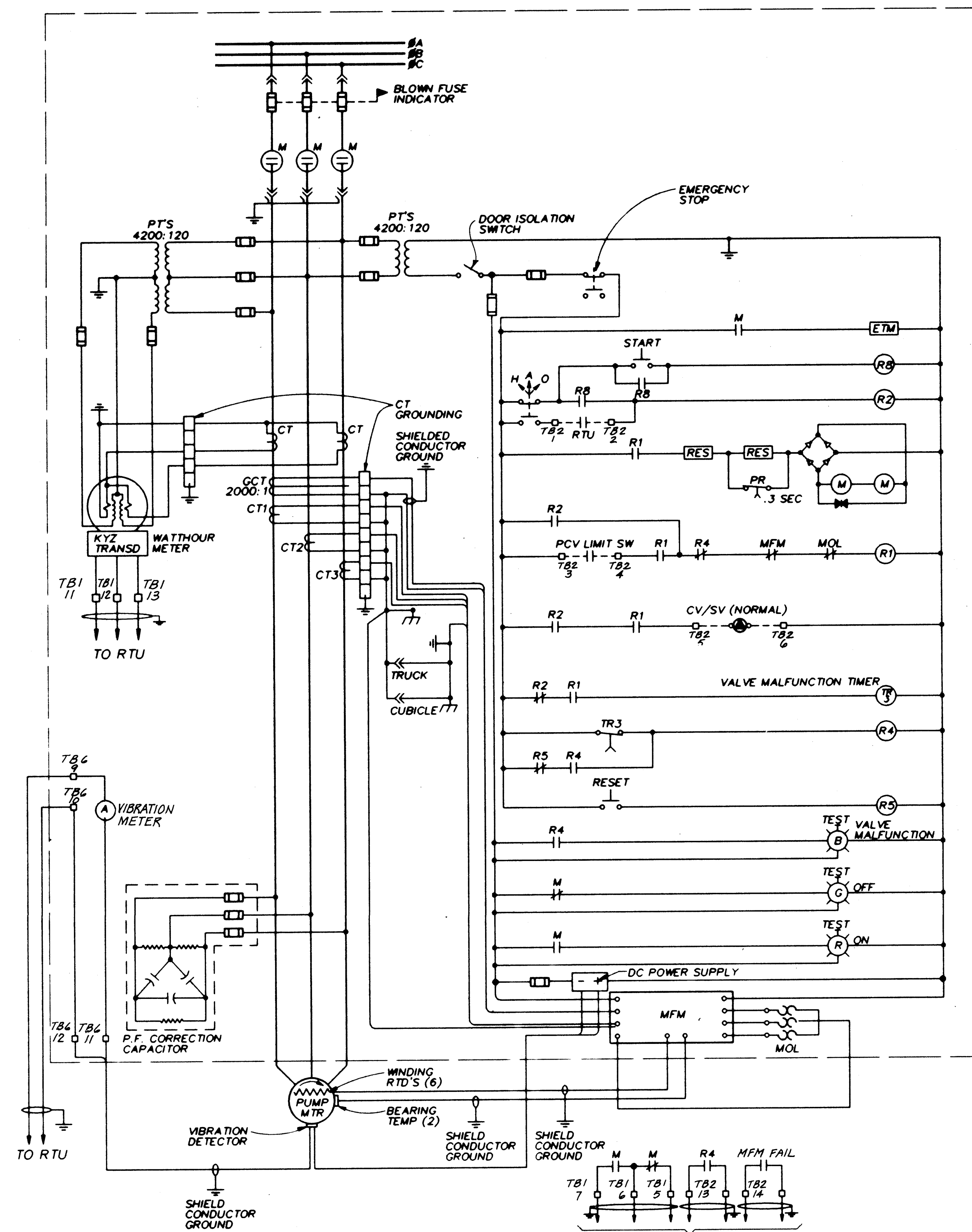


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  
26-02-18 11/1997

VERIFY SCALES  
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

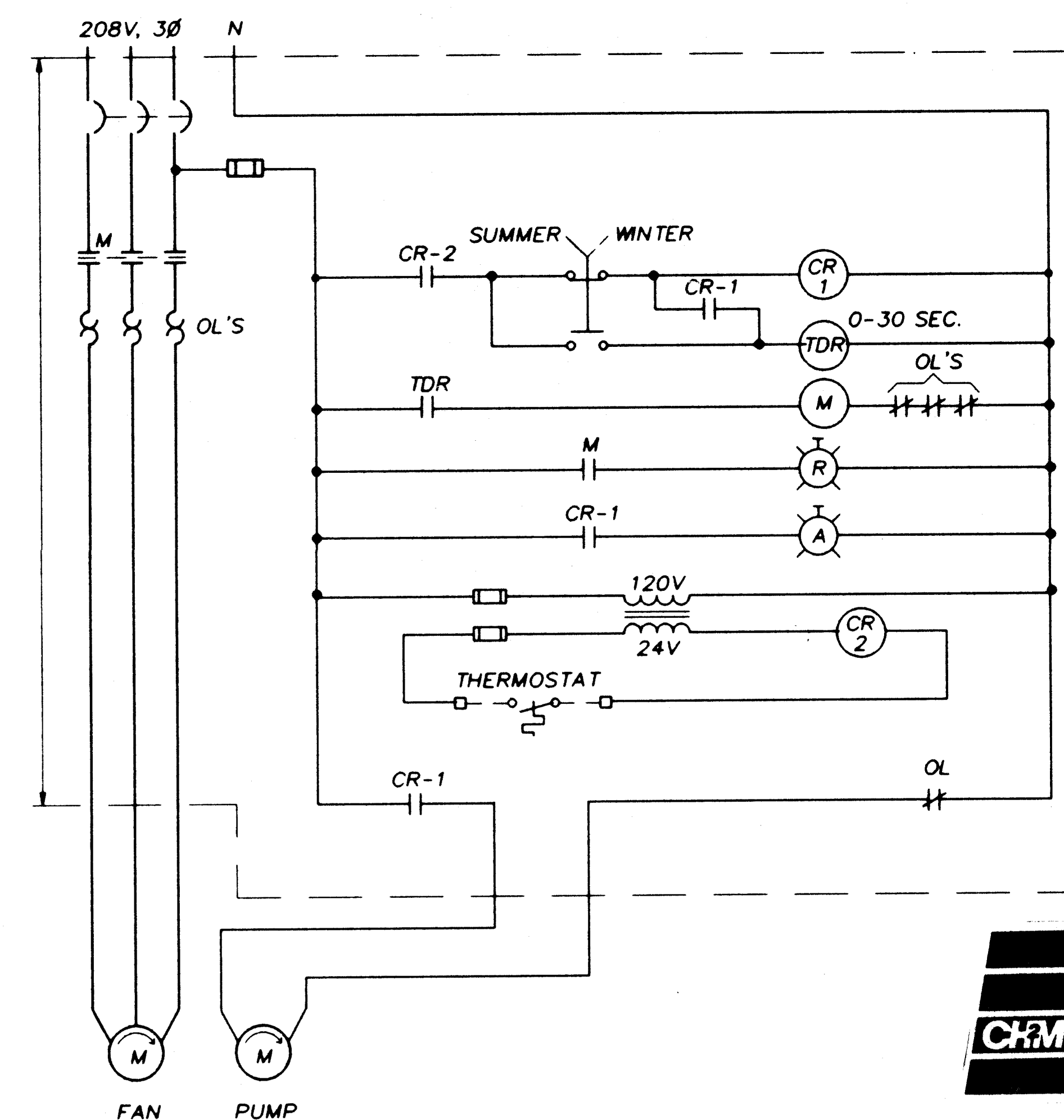
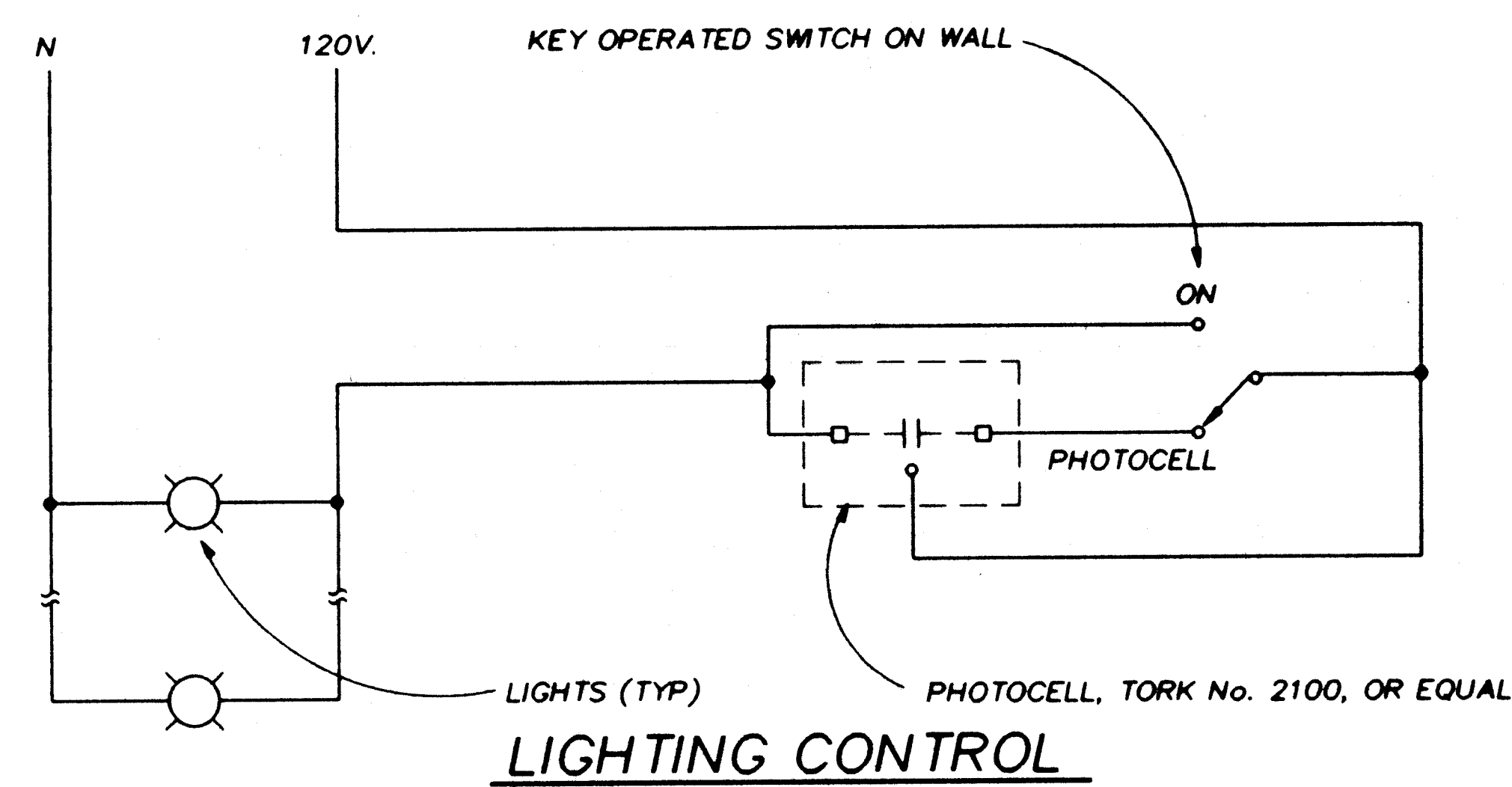
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|-----------------------------------------------------------------------------------------------------------|----------|---------|-----------|----------|----------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING GROUP                                       |          |         |           |          |          |
| TITLE: WINTER 1988 WATER SYSTEM REHABILITATION<br>LOMAS 208V ONE-LINE DIAGRAMS & ELEVATIONS<br>SCHEDULE A |          |         |           |          |          |
| APPROVALS                                                                                                 | ENGINEER | DATE    | APPROVALS | ENGINEER | DATE     |
| D.R.C. Chair                                                                                              |          |         |           |          |          |
| Trans. Dev.                                                                                               |          |         |           |          |          |
| Utility Dev.                                                                                              |          |         |           |          |          |
| DRAWING NO.                                                                                               | E-6      | MAP NO. | K-22      | SHEET    | 18 OF 68 |

|                        |      |
|------------------------|------|
| AS BUILT INFORMATION   |      |
| DATE                   | DATE |
| BY                     | BY   |
| NO.                    | NO.  |
| MICRO-FILM INFORMATION |      |
| DATE                   | DATE |
| BY                     | BY   |
| NO.                    | NO.  |



**PUMP MOTOR**  
FULL VOLTAGE, NON-REVERSING BASIC  
MOTOR CONTROL DIAGRAM

NOTE: THIS DIAGRAM PROVIDED FOR CONNECTION  
INFORMATION ONLY. STARTER PROVIDED BY OWNER.  
CONNECTIONS SHALL BE MADE UNDER THIS CONTRACT.



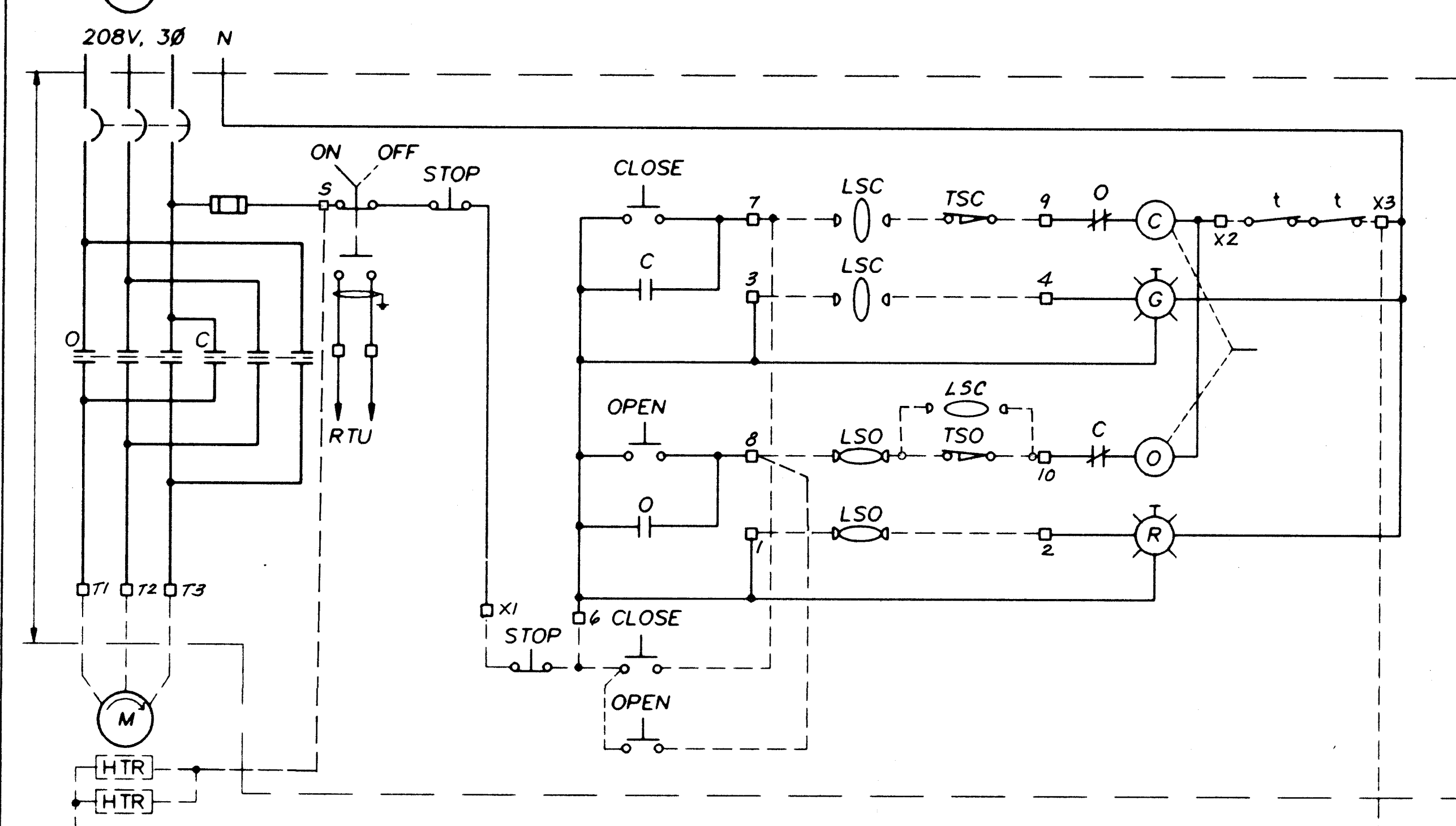
**EVAPORATIVE AIR COOLER EC-1 (EC-2)**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  
20-26/18 12097

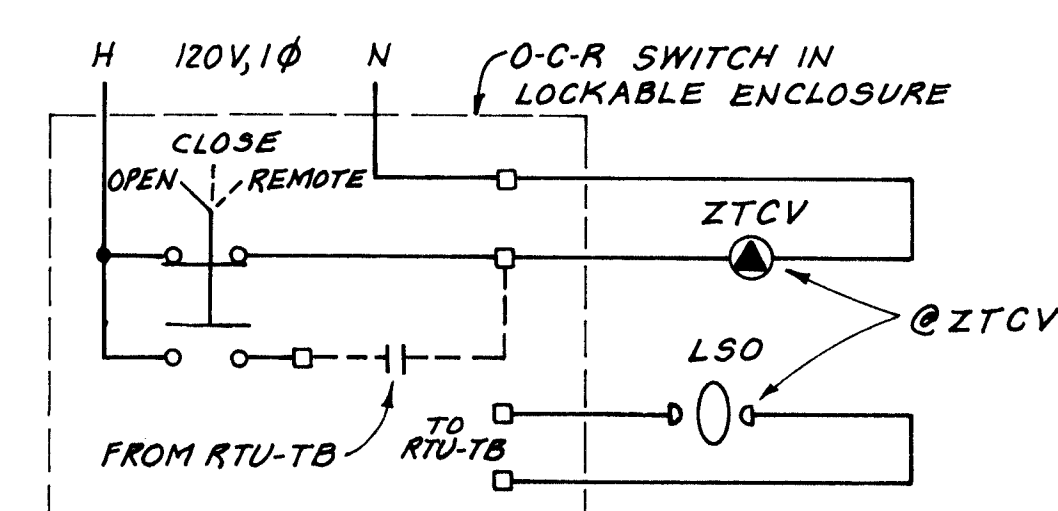
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IF NOT ONE INCH ON  
THIS SHEET, ADJUST  
SCALES ACCORDINGLY.

|                                                                                      |          |         |           |          |       |
|--------------------------------------------------------------------------------------|----------|---------|-----------|----------|-------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING GROUP                  |          |         |           |          |       |
| TITLE: WINTER 1988 WATER SYSTEM REHABILITATION<br>CONTROL DIAGRAMS<br>SCHEDULE A & B |          |         |           |          |       |
| APPROVALS                                                                            | ENGINEER | DATE    | APPROVALS | ENGINEER | DATE  |
| D.R.C. Chair                                                                         |          |         |           |          |       |
| Trans. Dev                                                                           |          |         |           |          |       |
| Utility Dev                                                                          |          |         |           |          |       |
| DRAWING NO.                                                                          | E-7      | MAP NO. | SHEET     | 19       | OF 68 |

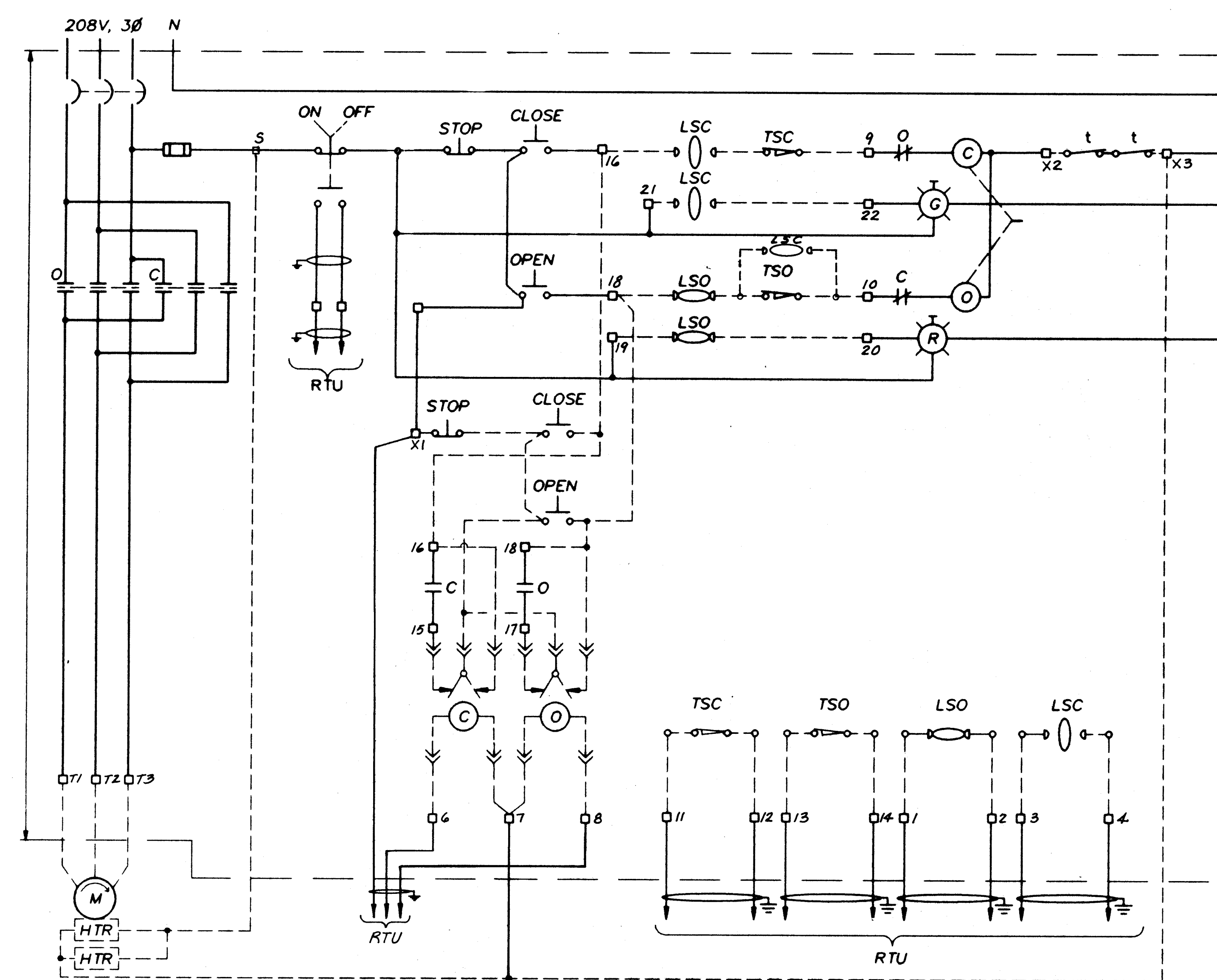
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|----------------------|------|-------------|----|--------------------|----|-----------------|----|
| AS BUILT INFORMATION |      | BENCH MARKS |    | SURVEY INFORMATION |    | ENGINEER'S SEAL |    |
| CONTRACTOR           | DATE | NO.         | BY | NO.                | BY | NO.             | BY |
| DESIGNED BY          | DATE |             |    |                    |    |                 |    |
| CHECKED BY           | DATE |             |    |                    |    |                 |    |
| RECORDED BY          | DATE |             |    |                    |    |                 |    |
| NO.                  |      |             |    |                    |    |                 |    |



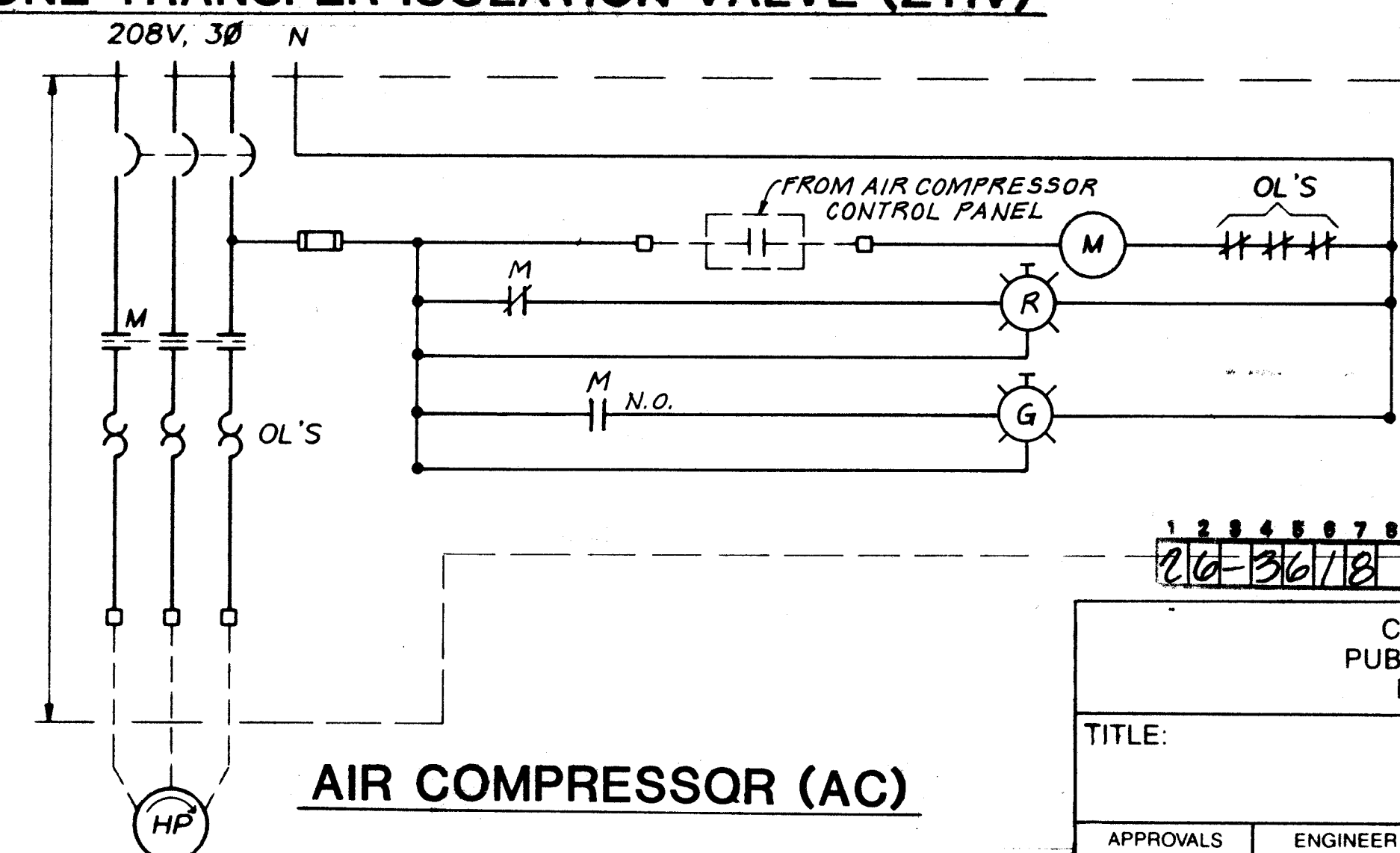
STATION DISCHARGE (IV)&PUMP DISCHARGE (DV) VALVES



ZONE TRANSFER CONTROL VALVE (ZTCV)



ZONE TRANSFER ISOLATION VALVE (ZTIV)

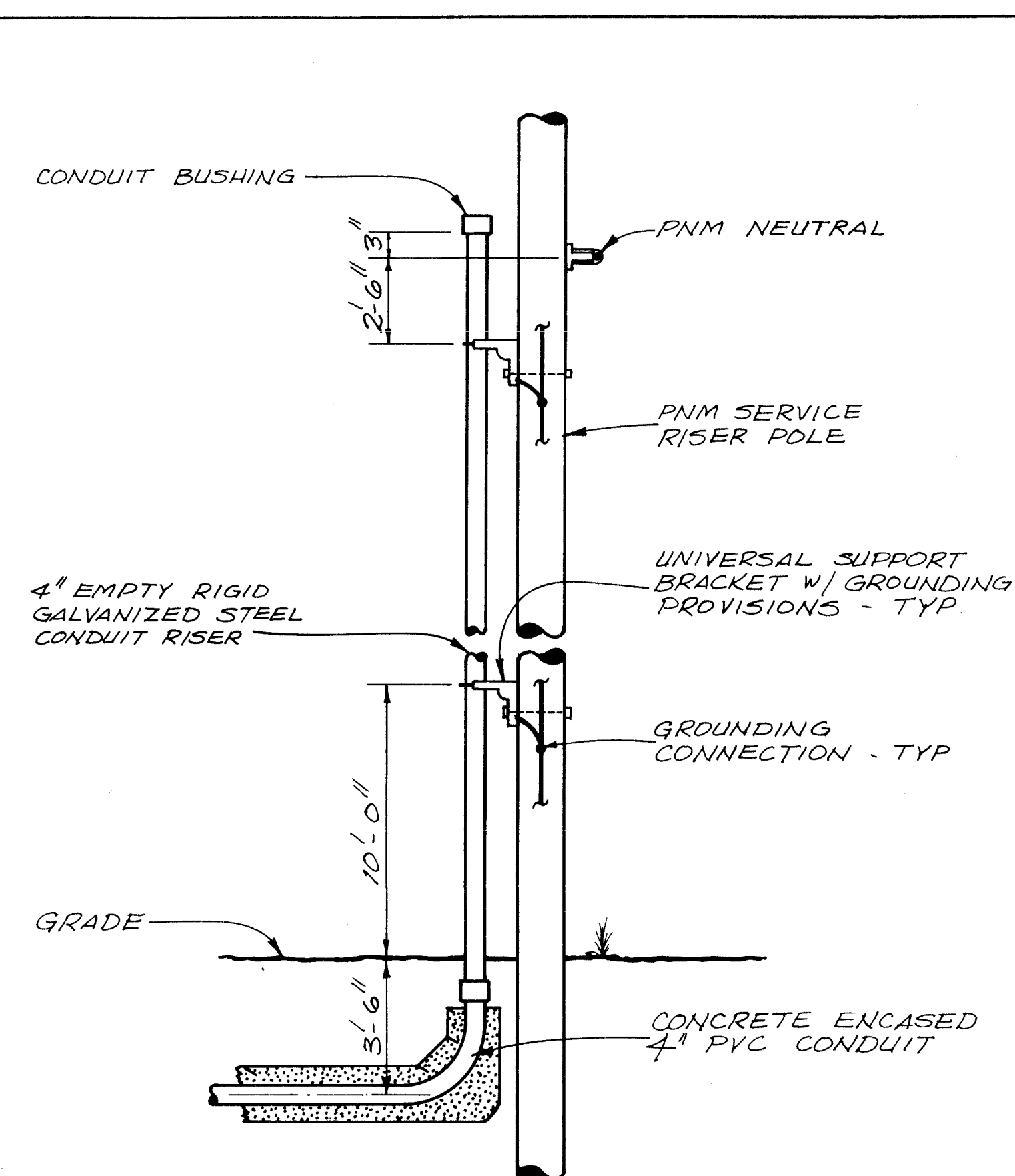


AIR COMPRESSOR (AC)

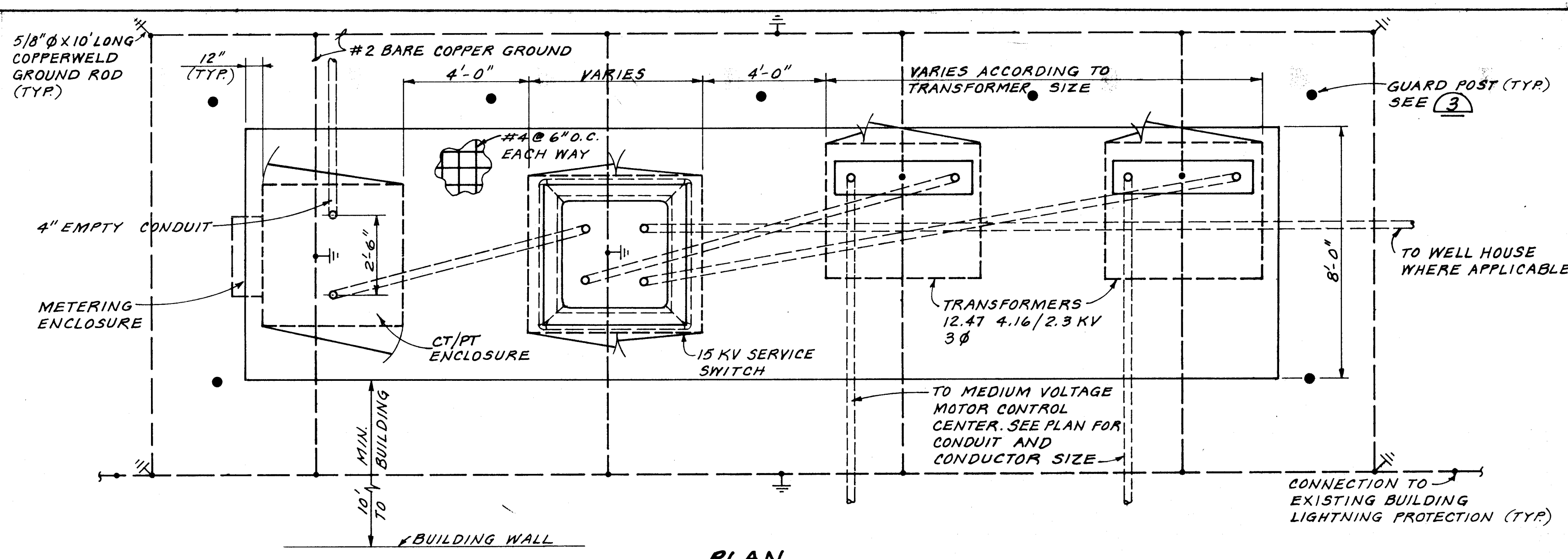
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ORIGINAL DRAWING.  
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THIS SHEET, ADJUST  
SCALES ACCORDINGLY.



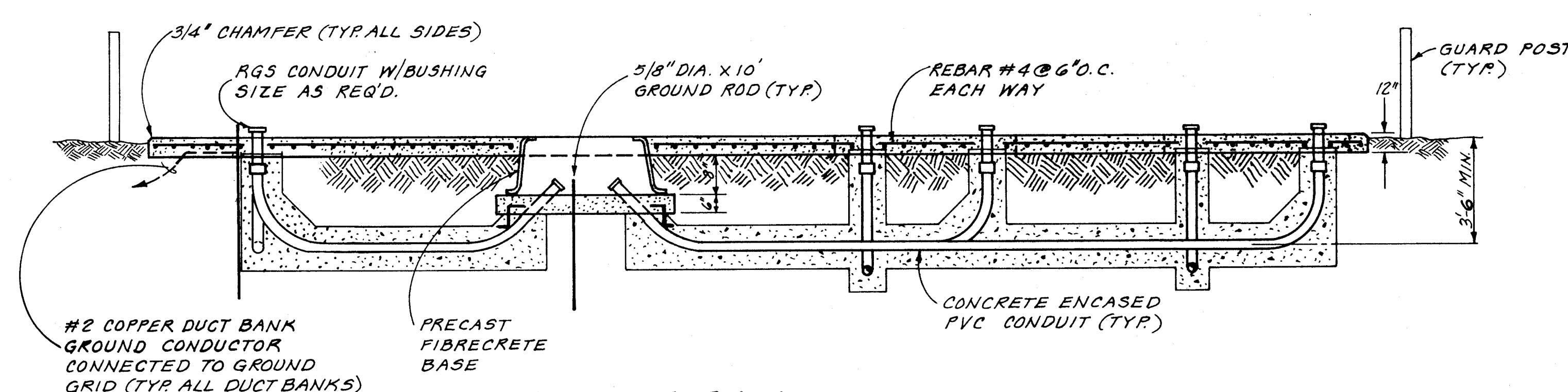
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| SHEET <b>20</b> OF <b>64</b>                                    |  |
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| <p> <b>SCHEDULE A &amp; B</b> </p>                              |  |
| <p> <b>WATER SYSTEM REHABILITATION</b> </p>                     |  |
| <p> <b>PROJECT GROUP</b> </p>                                   |  |
| <p> <b>DEPARTMENT</b> </p>                                      |  |
| <p> <b>PROJECT</b> </p>                                         |  |
| <p> <b>ENGINEER'S SEAL</b> </p>                                 |  |
| <p> <b>REVISIONS</b> </p>                                       |  |
| <p> <b>DESIGN</b> </p>                                          |  |
| <p> <b>DESIGNED BY</b>      <b>DATE</b> </p>                    |  |
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| <p> <b>CHECKED BY</b>      <b>DATE</b> </p>                     |  |
| <p> <b>APPROVED BY</b>      <b>DATE</b> </p>                    |  |
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| <p> <b>REVISIONS</b> </p>                                       |  |
| <p> <b>DESIGN</b> </p>                                          |  |
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| <p> <b>REVISIONS</b> </p>                                       |  |
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| <p> <b>REVISIONS</b> </p>                                       |  |
| <p> <b>DES</b></p>                                              |  |



**1**  
 **RISER CONDUIT DETAIL**  
NTS (SCHEDULE A & B) E-4, 9, 11, 16, 18

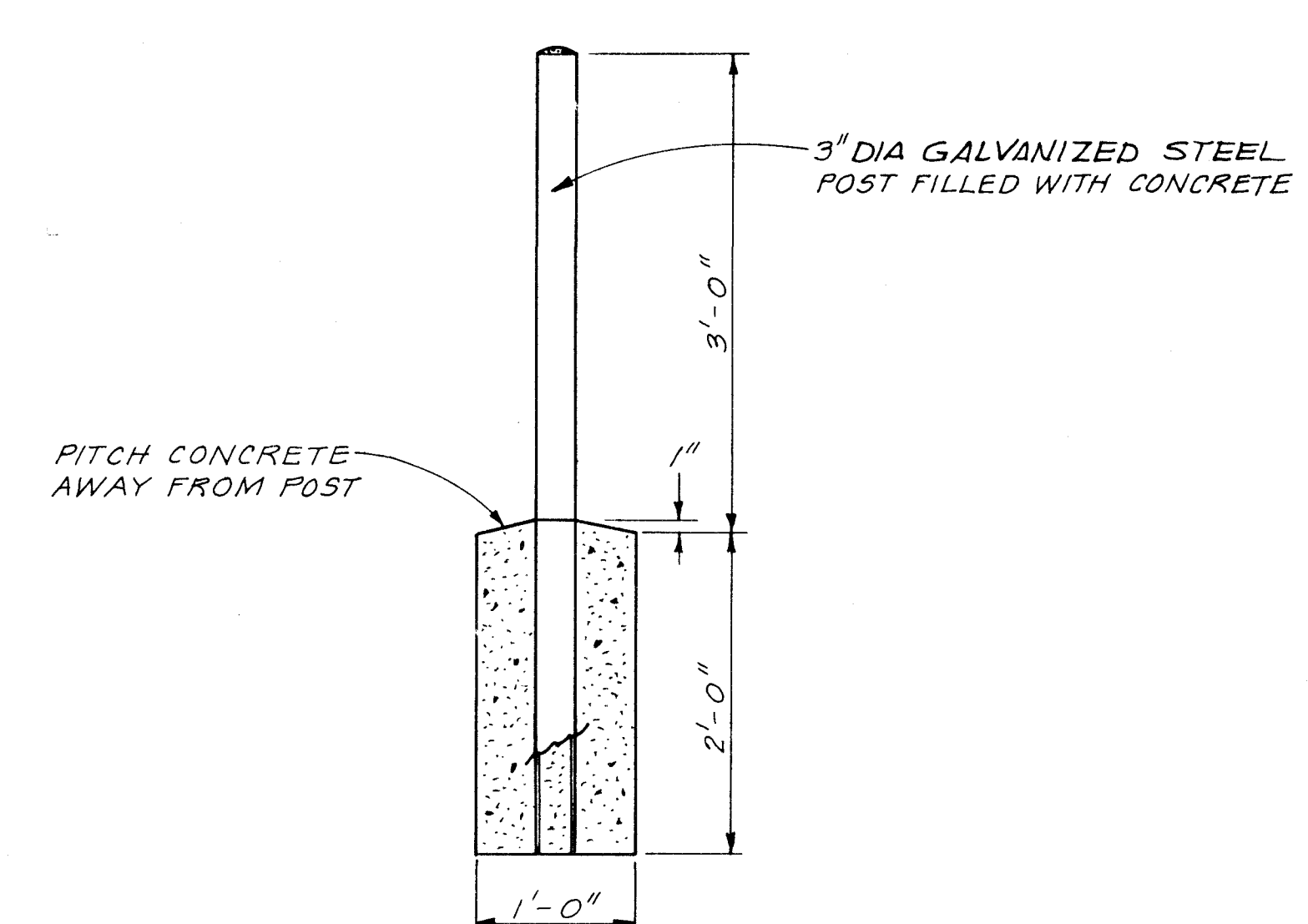


**PLAN**

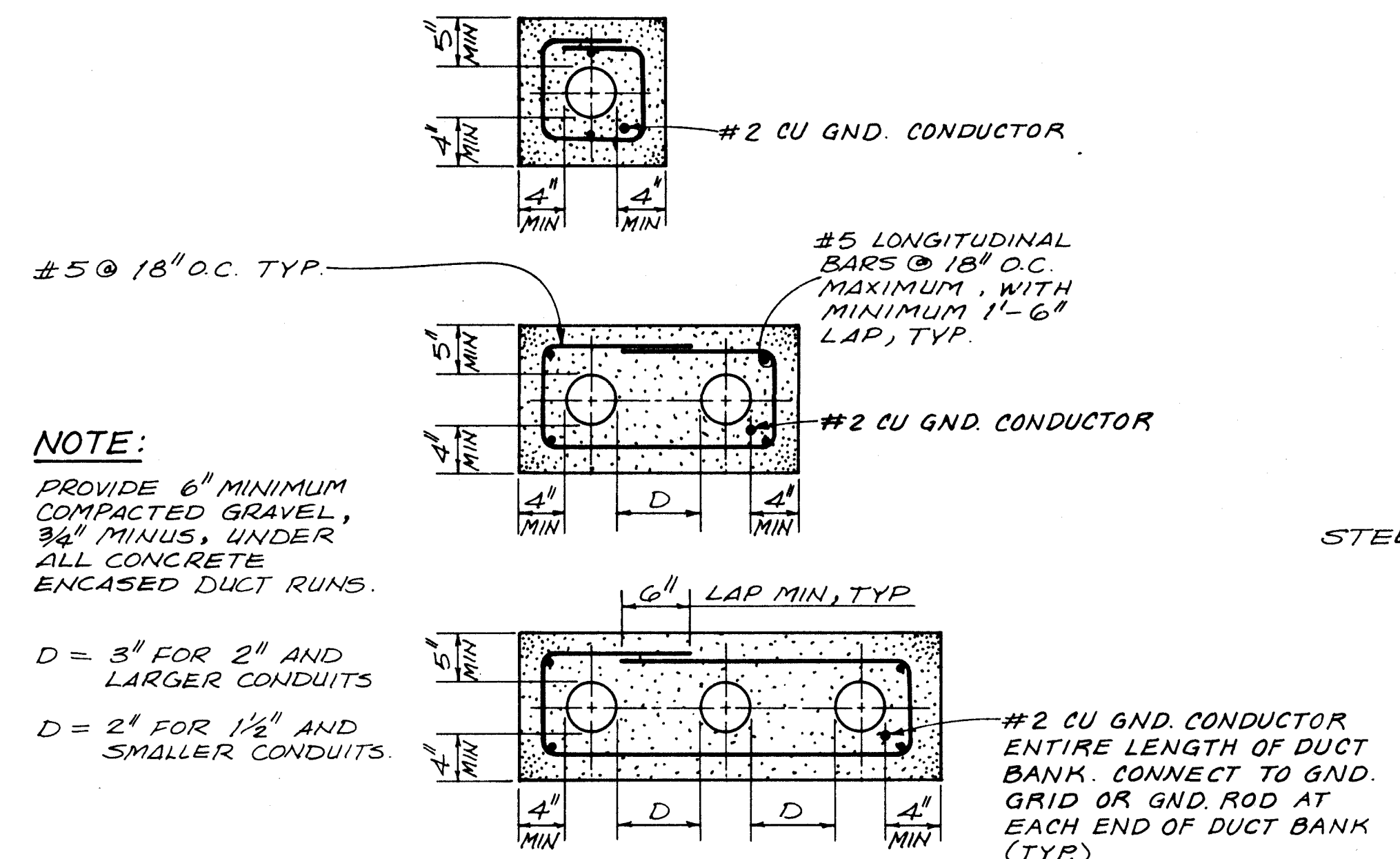


**ELEVATION**

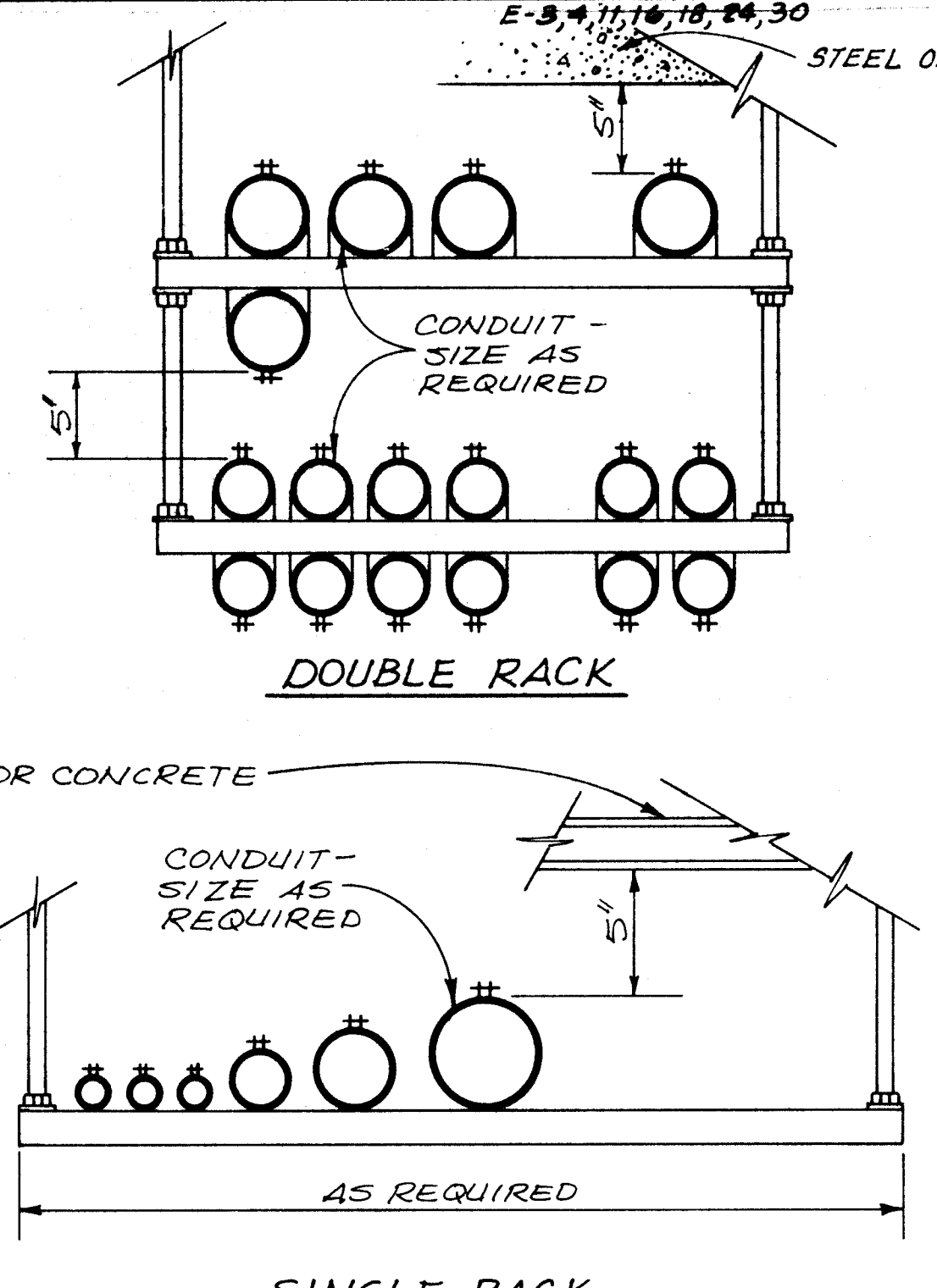
**2**  
 **GROUNDING AND SERVICE EQUIPMENT CONCRETE PAD DETAIL**  
(SCHEDULE A & B) E-3, 4, 9, 11, 16, 18, 30



**3**  
 **GUARD POST DETAILS**  
NTS (SCHEDULE A & B)



**4**  
 **TYPICAL DUCT BANK DETAILS**  
NTS (SCHEDULE A & B) E-4, 9, 11, 16, 18, 24, 30

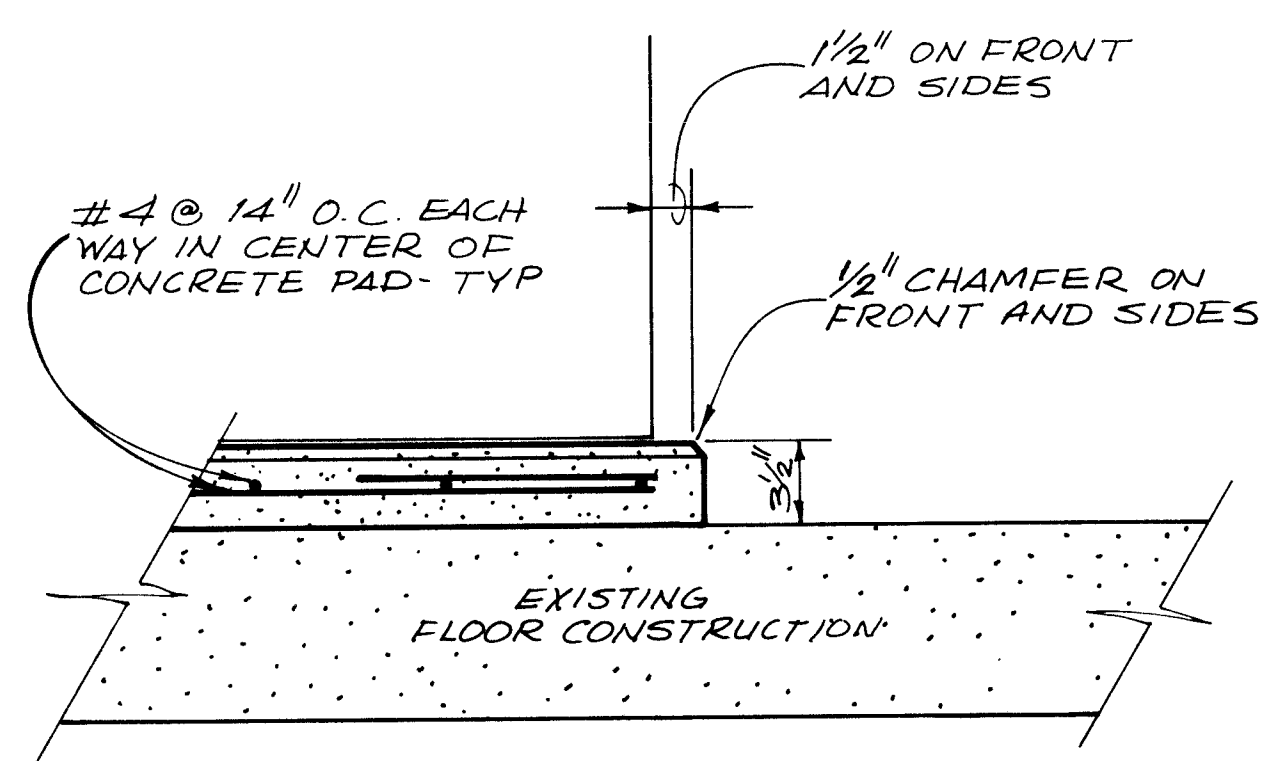


**5**  
 **CONDUIT RACKING SYSTEM DETAIL**  
(SCHEDULE B) E-11, 18

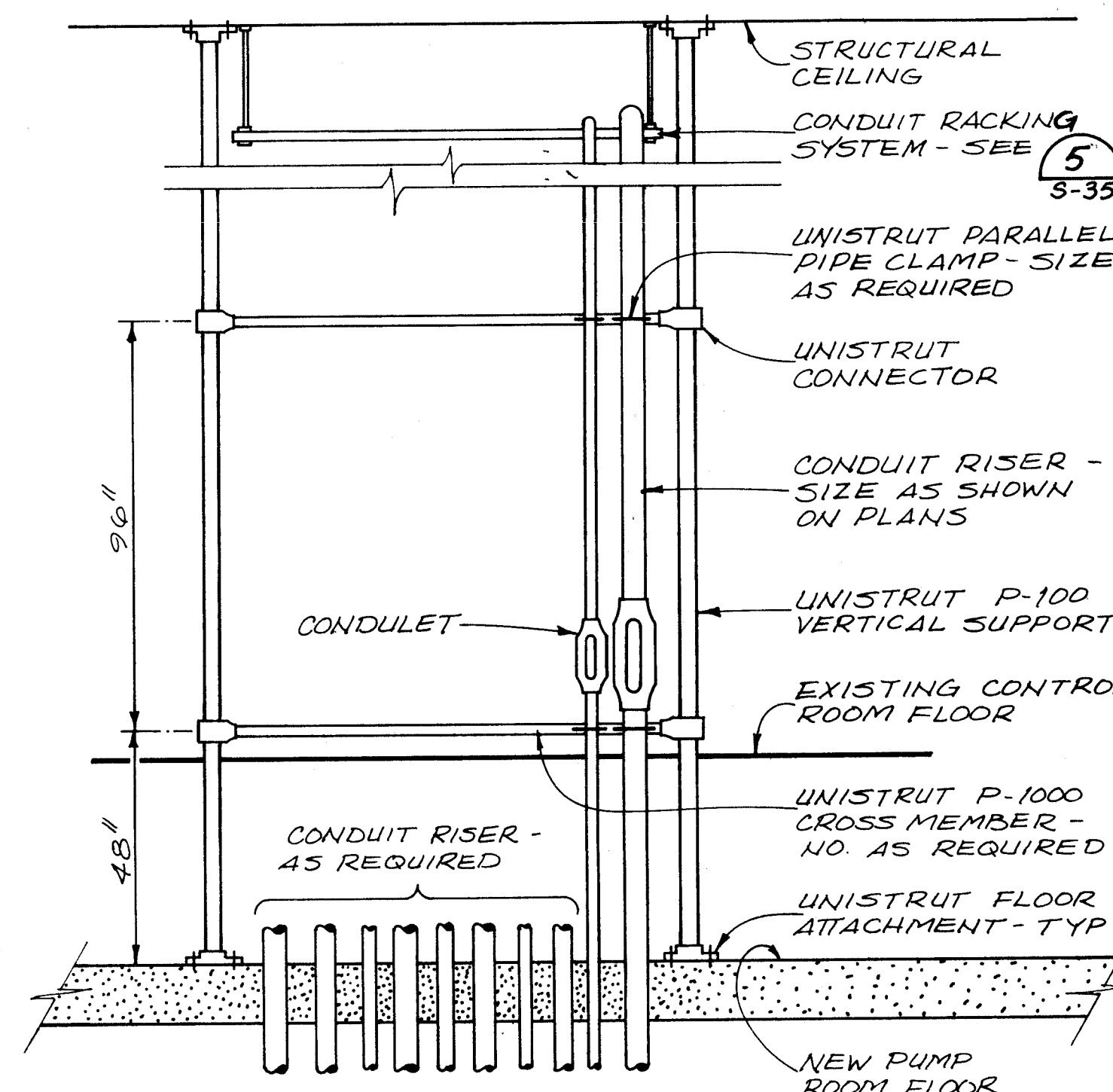
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|------------------------|------|-------------|------|
| CONTRACTOR             | DATE | BY          | DATE |
| INSPECTOR              | DATE | BY          | DATE |
| FIELD ENGINEER         | DATE | BY          | DATE |
| DESIGNED BY            | DATE | DESIGNED BY | DATE |
| CHECKED BY             | DATE | CHECKED BY  | DATE |
| RECORDED BY            | DATE | RECORDED BY | DATE |
| MICRO-FILM INFORMATION |      |             |      |
| NO.                    | DATE | NO.         | DATE |

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 26 | 36 | 18 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |

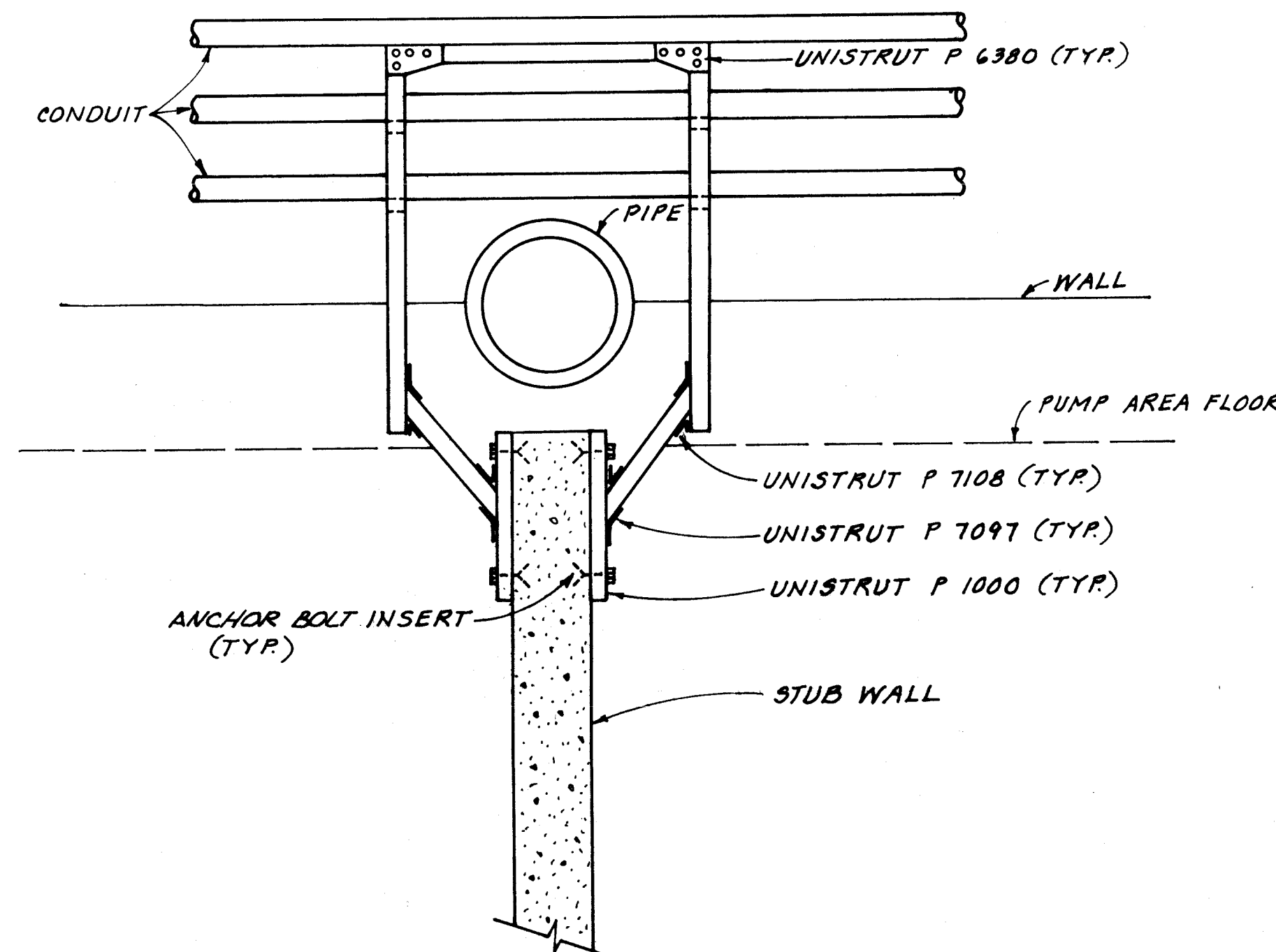
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| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING GROUP                    |          |         |                |
| TITLE: WINTER 1988 WATER SYSTEM REHABILITATION<br>ELECTRICAL DETAILS<br>SCHEDULE A & B |          |         |                |
| APPROVALS                                                                              | ENGINEER | DATE    | APPROVALS      |
| D.R.C. Chair                                                                           |          |         | ENGINEER       |
| Trans. Dev.                                                                            |          |         | DATE           |
| Utility Dev.                                                                           |          |         |                |
| DRAWING NO.                                                                            | E-35     | MAP NO. | SHEET 21 OF 88 |



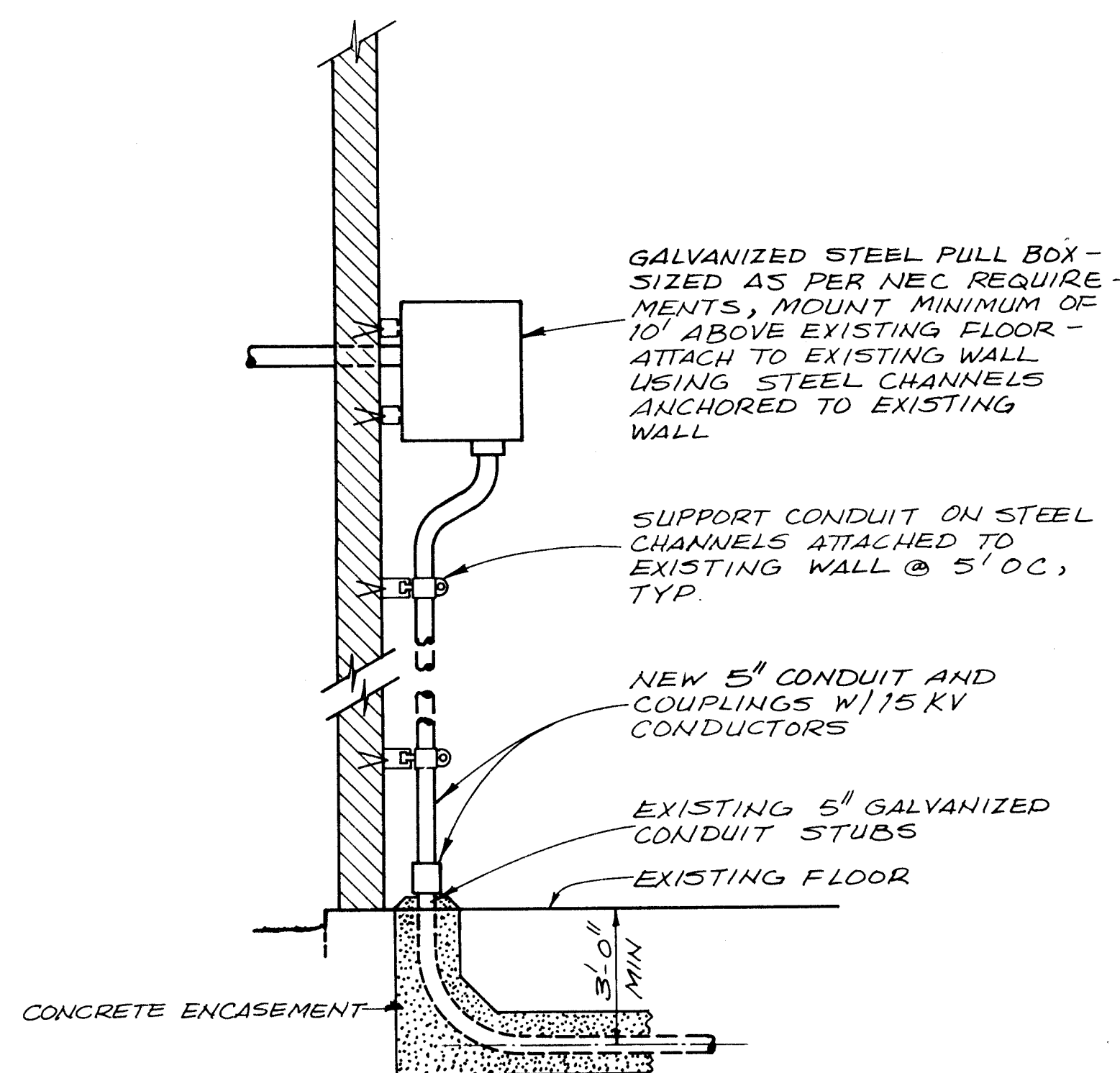
**CONCRETE PAD SECTION (6)**  
NTS (SCHEDULE A & B) E-4, 11, 18, 30



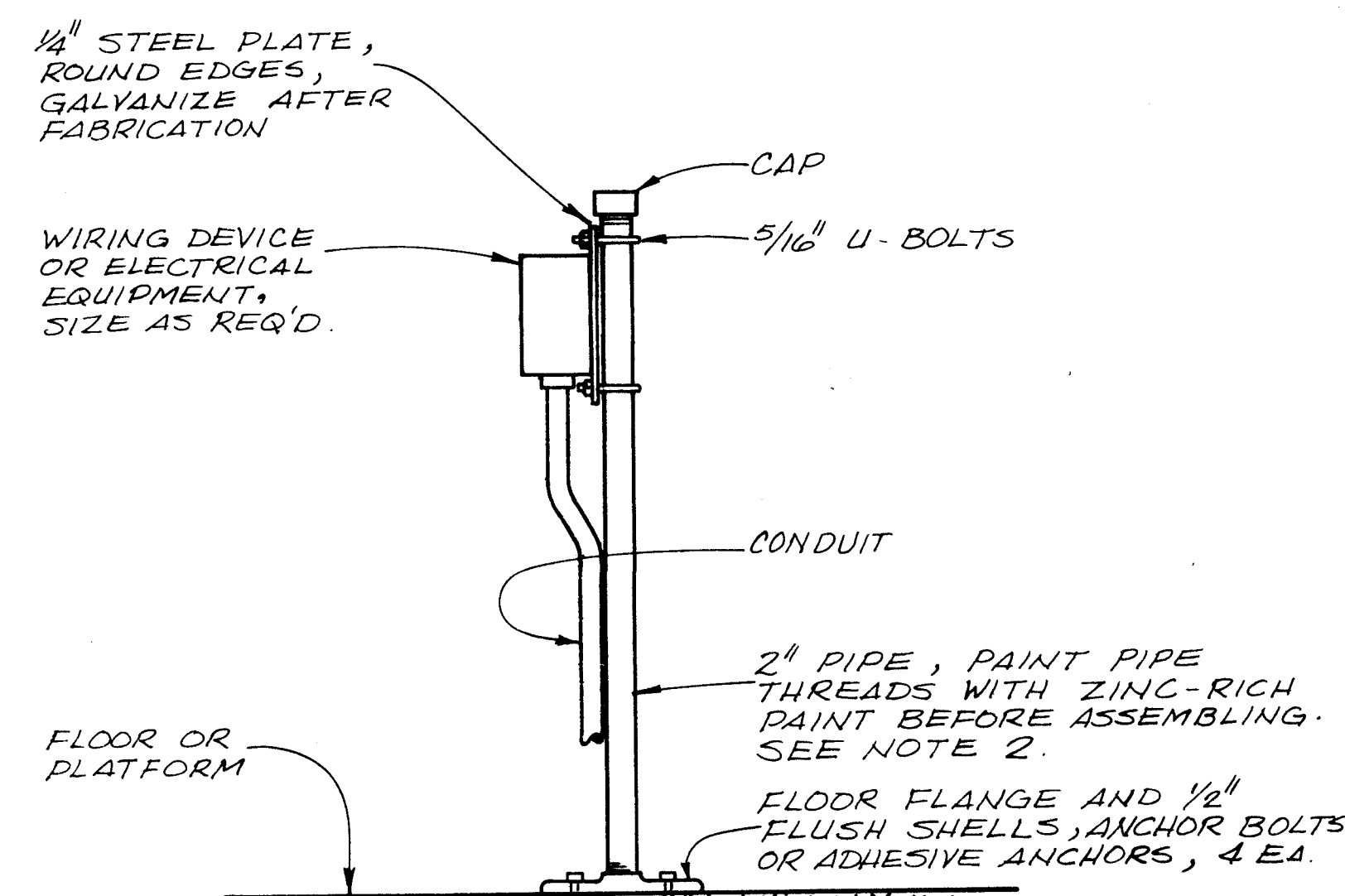
**RISER CONDUIT SUPPORT DETAIL (7)**  
NTS (SCHEDULE A & B) E-4



**CONDUIT RACK DETAIL (8)**  
NTS (SCHEDULE B) E-11, 18



**CONDUIT RISER & PULL BOX DETAIL (9)**  
NTS (SCHEDULE B) E-11, 18, 24



**NOTES:**

1. ALL MOUNTING HARDWARE TO BE GALVANIZED. USE WASHERS AND SPLIT LOCK-WASHERS UNDER ALL NUTS.
2. PIPE AND FITTINGS: GALVANIZED STEEL PIPE MEETING ASTM A120, SCHEDULE 40 WALL THICKNESS. THREADED 120 - POUND MALLEABLE IRON FLOOR FLANGE MEETING ASTM A197. ANSI STANDARD PIPE THREADS ON PIPE AND FITTINGS.

**PEDESTAL MOUNTED DEVICE DETAIL (10)**  
NTS (SCHEDULE A) E-4

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  
26-2618 11 2397

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING.  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

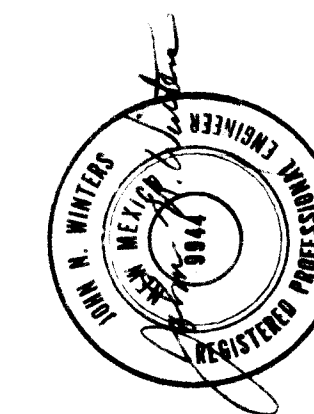
CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: WINTER 1988 WATER SYSTEM REHABILITATION  
ELECTRICAL DETAILS  
SCHEDULE A & B

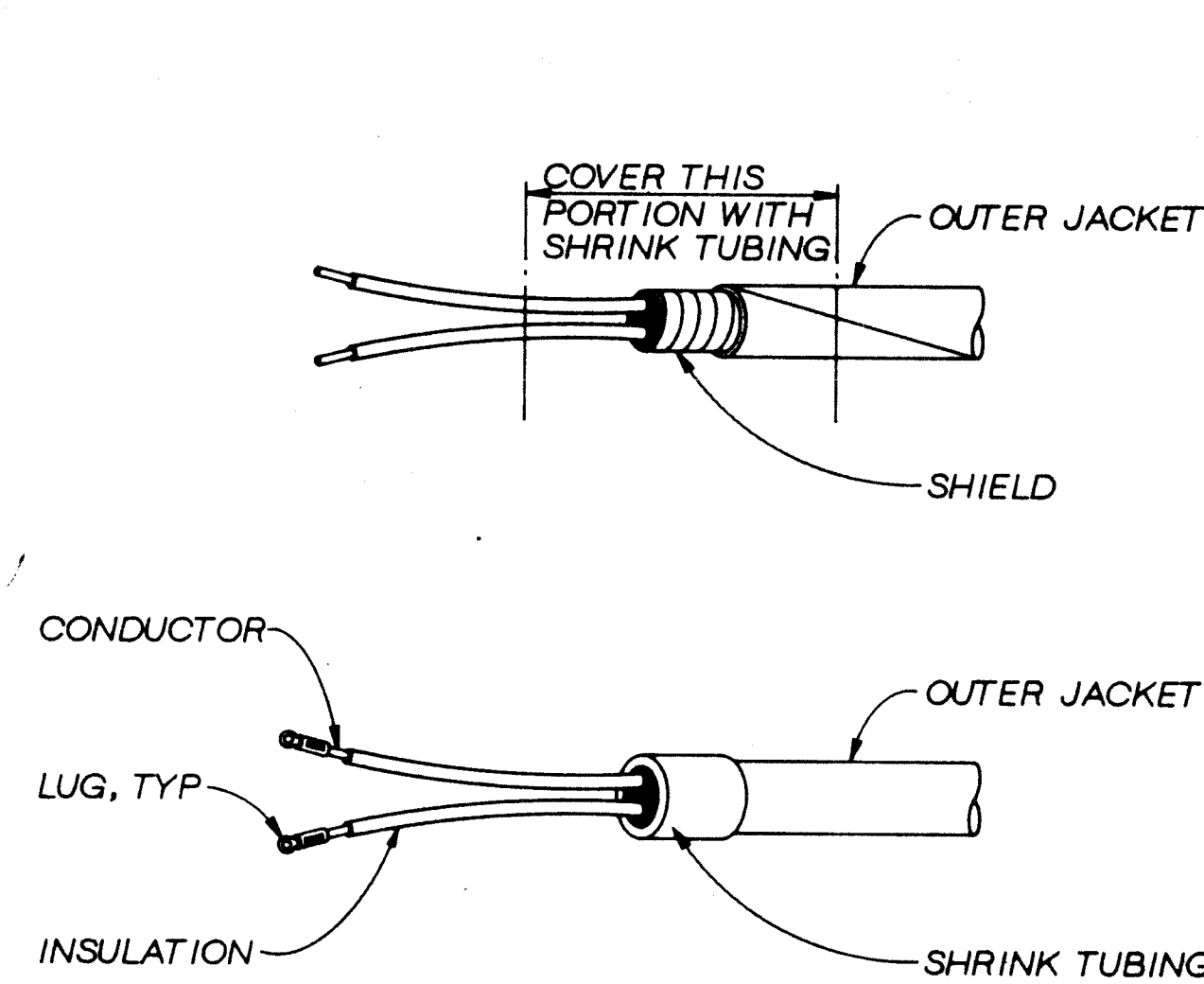
| APPROVALS    | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|--------------|----------|------|-----------|----------|------|
| D.R.C. Chair |          |      |           |          |      |
| Trans. Dev.  |          |      |           |          |      |
| Utility Dev. |          |      |           |          |      |

DRAWING NO. E-36 MAP NO. SHEET 22 OF 68

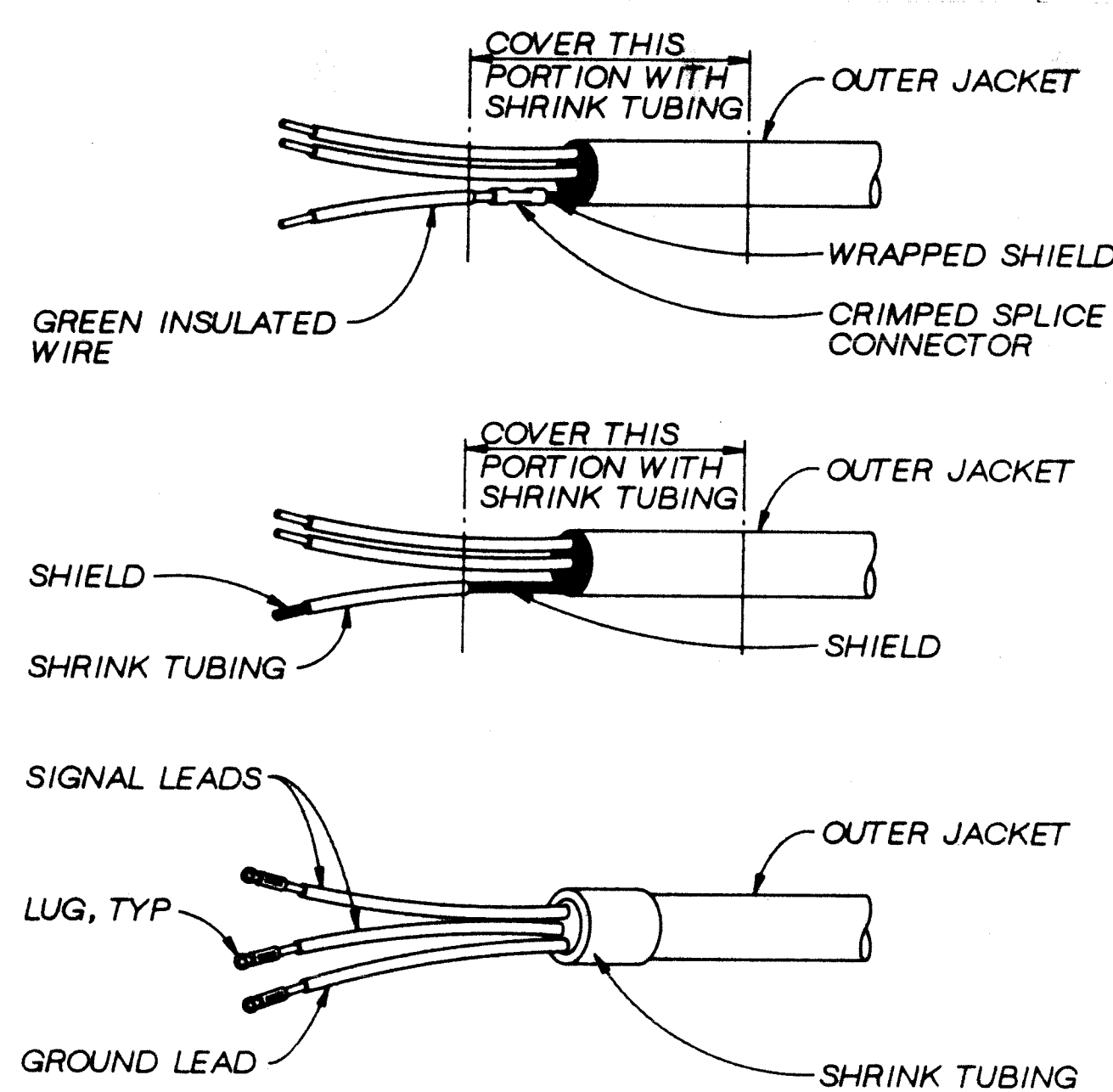
| AS BUILT INFORMATION |      | BENCH MARKS |    | SURVEY INFORMATION |    | ENGINEER'S SEAL |    |
|----------------------|------|-------------|----|--------------------|----|-----------------|----|
| CONTRACTOR           | DATE | NO.         | BY | NO.                | BY | NO.             | BY |
| REVIEWED BY          | DATE |             |    |                    |    |                 |    |
| APPROVED BY          | DATE |             |    |                    |    |                 |    |
| DESIGNED BY          | DATE |             |    |                    |    |                 |    |
| DRAWN BY             | DATE |             |    |                    |    |                 |    |
| CHECKED BY           | DATE |             |    |                    |    |                 |    |
| RECORDED BY          | DATE |             |    |                    |    |                 |    |
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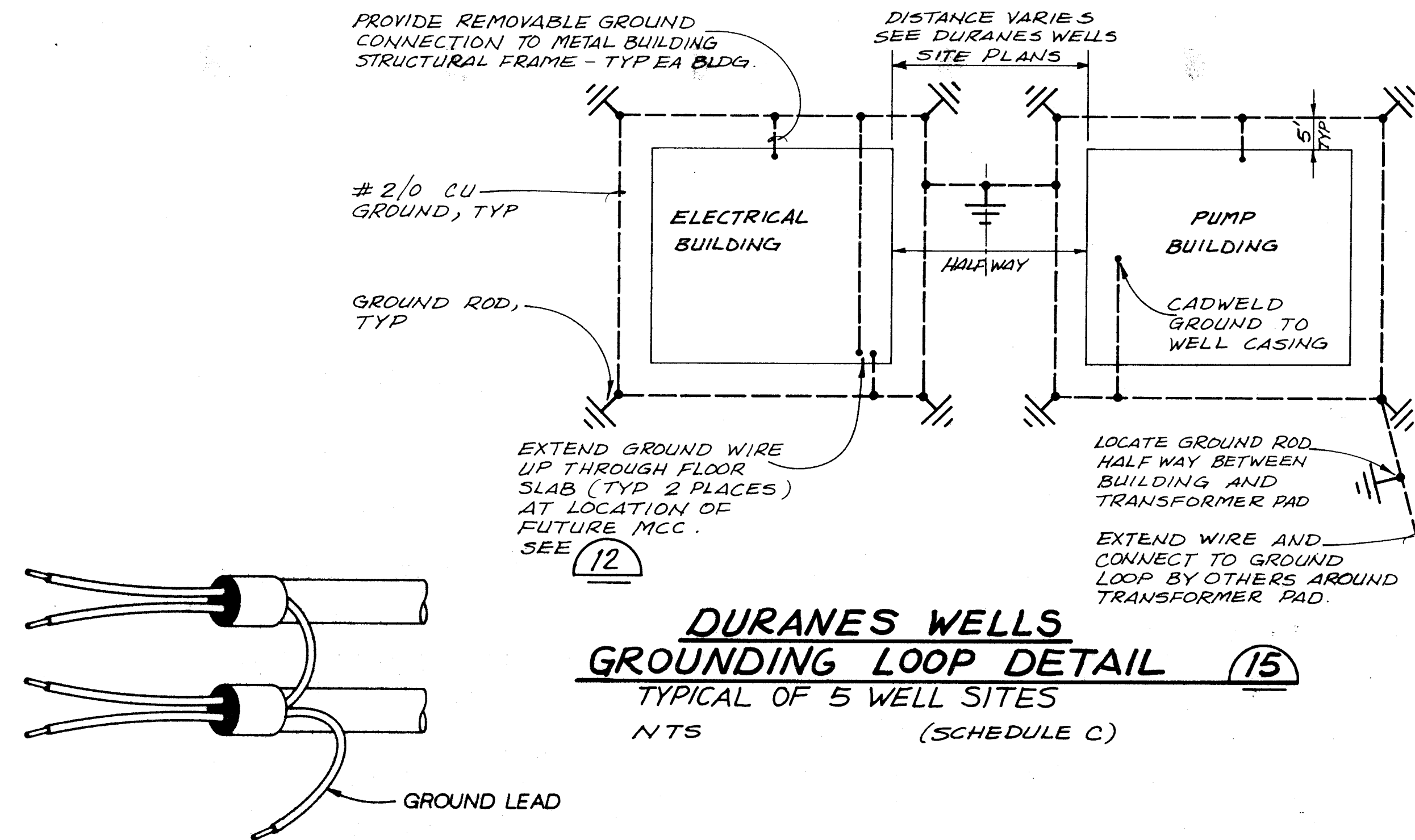
| REMARKS     | DATE       |
|-------------|------------|
| DESIGN      | SEPT 88    |
| REVISIONS   |            |
| DESIGNED BY | A. CLAUSON |
| DRAWN BY    | H. GURULE  |
| CHECKED BY  | J. TURNER  |
| DATE        | SEPT 88    |



**TERMINATION OF SHIELDED CONTROL CABLE**  
NTS

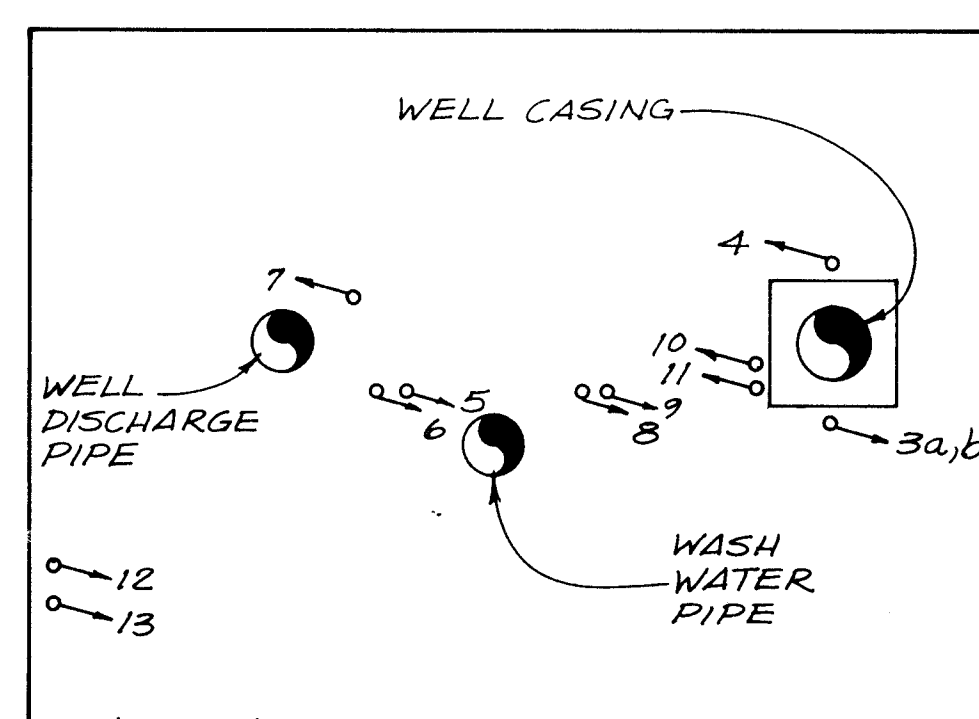
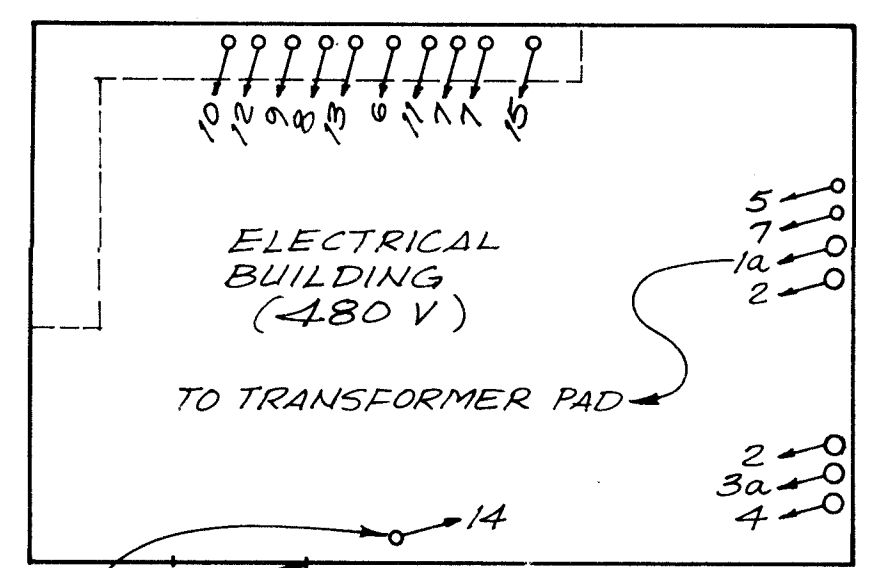
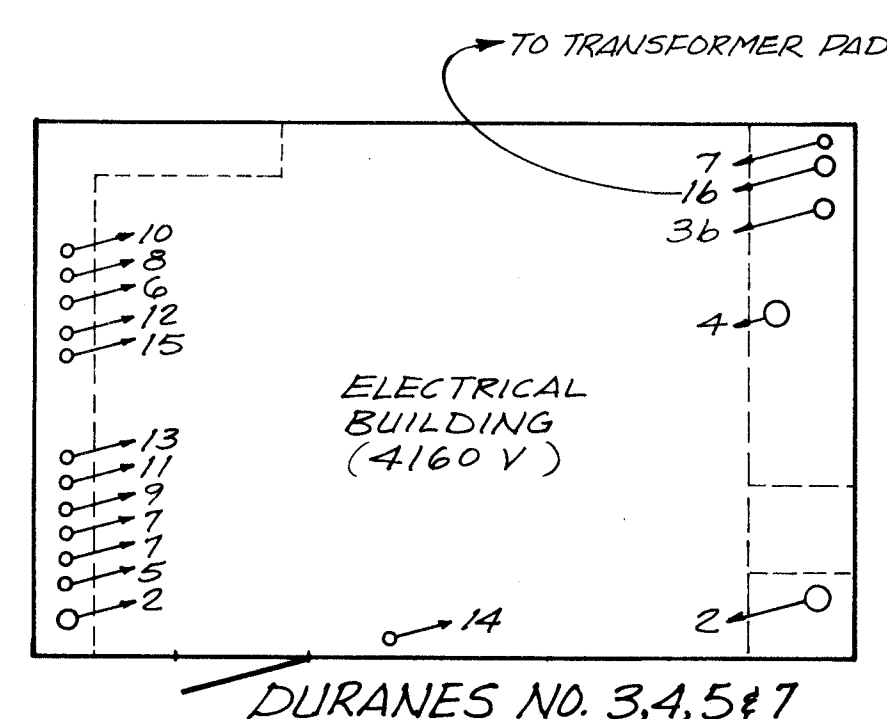


**TERMINATION OF SHIELDED CONTROL CABLE**  
NTS



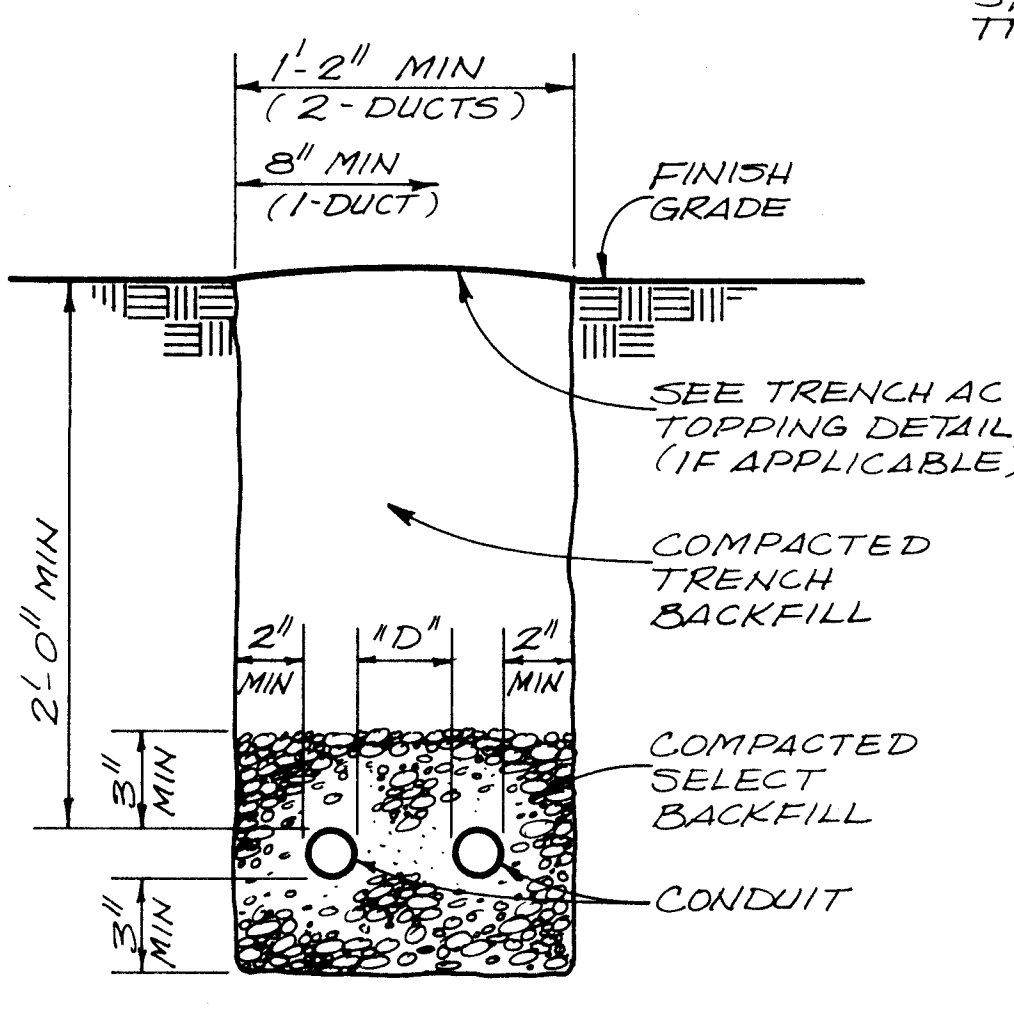
**UNACCEPTABLE METHOD OF GROUNDING CONTROL CABLE SHIELD**  
NTS

**SHIELDED CABLE TERMINATION DETAIL (11)**  
NTS (SCHEDULES A & B)



**PUMP BUILDING**  
**DURANES NO. 3, 4, 5, 6 & 7**

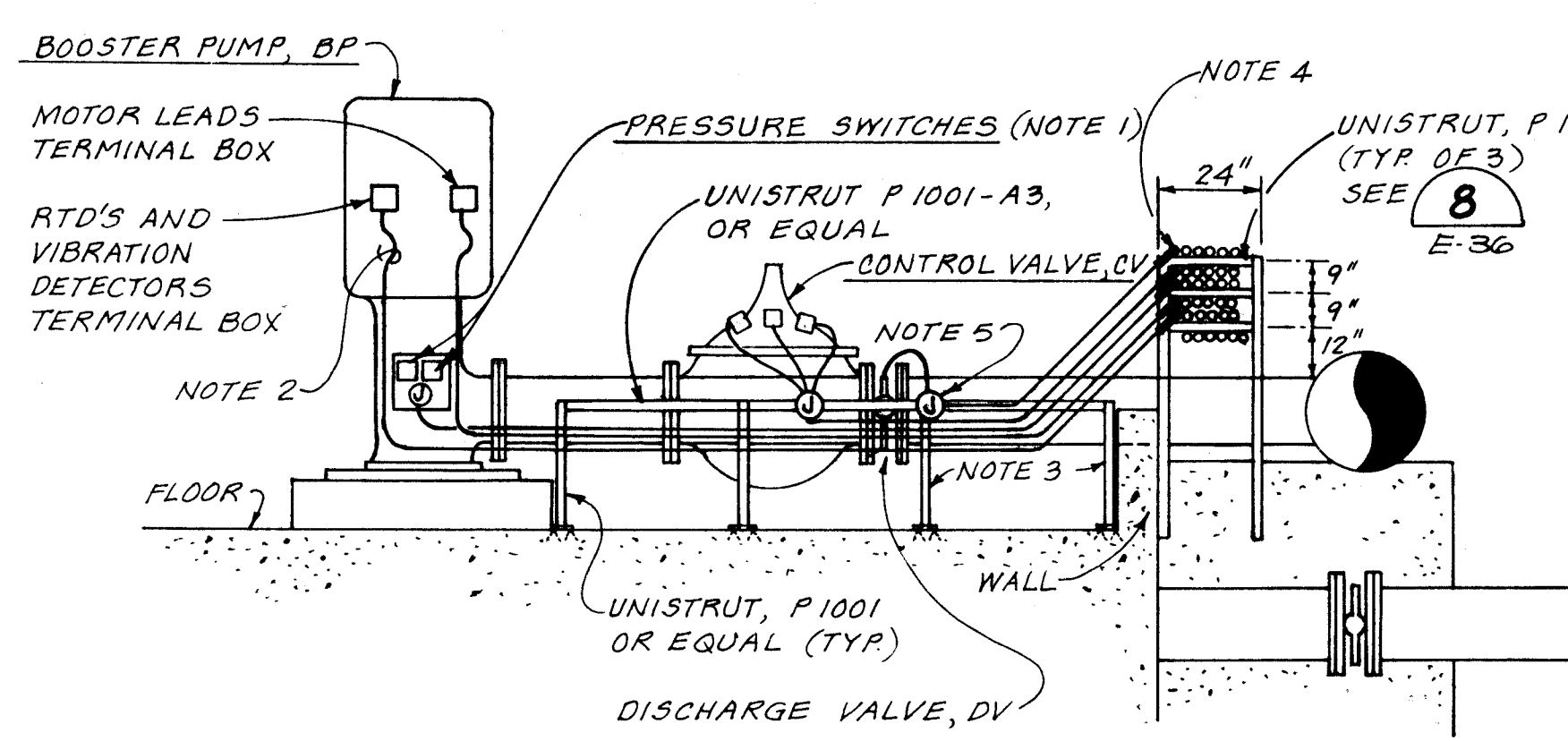
| CONDUIT DIAMETER, INCHES | CONDUIT NO.         | CONDUIT LENGTH |
|--------------------------|---------------------|----------------|
| 3/4"                     | 7, 9, 11, 15        | SEE NOTE       |
| 1"                       | 5, 6, 8, 10, 12, 13 | 2              |
| 1 1/4"                   | 14                  | 2              |
| 2"                       | 2                   | 2              |
| 2 1/2"                   | 1a, 3a, 4           | 2              |
| 4"                       | 1b, 3b              | 2              |



D = 3" MIN FOR 2" AND LARGER CONDUIT.  
D = 2" MIN FOR 1 1/2" AND SMALLER CONDUIT.

**TRENCH AND CONDUIT PLACEMENT DETAIL (13)**  
NTS (SCHEDULE A & B)

**NOTES (12) CONT'D.**  
4. SEE (15) FOR GROUNDING LOOP INSTALLATION REQUIRED.  
5. AT DURANES WELL SITE NO. 5, THE CONDUIT TO THE TRANSFORMER PAD SHALL BE EXTENDED 5' OUTSIDE THE ELECTRICAL BUILDING FOUNDATION IN THE DIRECTION OF THE TRANSFORMER PAD AND CAPPED. ITS LOCATION SHALL BE MARKED WITH A 2" x 4" EXTENDING 1' ABOVE FINISH GRADE. AT DURANES WELL SITES NOS. 3, 4, 6 & 7, THE CONTRACTOR SHALL EXTEND THE CONDUIT (# 14 OR 16) FROM THE ELECTRICAL BUILDING TO THE TRANSFORMER PAD AND SHALL CONNECT TO A CONDUIT STUBBED OUT FROM THE TRANSFORMER PAD INSTALLED BY OTHERS.



**NOTES (14)**  
1. PRESSURE SWITCHES PROVIDED AND MOUNTED ON PUMP DISCHARGE HEAD. CONTRACTOR TO EXTEND CONDUIT, CONDUCTORS OF J-BOX TO PRESSURE SWITCHES AND MAKE FINAL WIRING CONNECTIONS/TERMINATIONS TO THESE DEVICES.  
2. FINAL CONNECTIONS TO ALL DEVICES SHALL BE FLEXIBLE CONDUIT.  
3. ATTACH UNISTRUT, P1001 (TYP) TO FLOOR AND/OR WALL WITH ADHESIVE ANCHORS (TYP.) AT 4' ON CENTERS.  
4. TURN CONDUIT DOWN USING LB CONDULET WITH BACKSIDE.  
5. ATTACH J-BOXES TO UNISTRUT P1001-A3.  
6. PRESSURE SWITCHES AND CONTROL VALVE CONNECTION REQUIRED FOR PUMPS AT VOLANDIA AND LOMAS PUMP STATIONS SHALL BE SIMILAR TO THOSE SHOWN IN THIS DETAIL.

**NOTES:**  
1. EXACT LOCATION OF CONDUITS TO BE CO-ORDINATED IN THE FIELD BETWEEN ENGINEER AND CONTRACTOR. THE CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION FROM OWNER PRIOR TO EMBEDDING ANY CONDUITS IN CONCRETE.  
2. SEE DRAWINGS C-1 THROUGH C-5 FOR LOCATIONS OF ELECTRICAL AND PUMP BUILDINGS AND WASH WATER AND WELL DISCHARGE PIPES IN EACH CONDUIT LENGTHS CAN BE DETERMINED FROM THESE SITE PLAN DRAWINGS.  
3. EXTEND ALL CONDUITS UP TO FINISH FLOOR SLAB AND TERMINATE EACH WITH A THREADED COUPLING AND PLUG. SEE (1) FOR DETAILS.

**CONDUIT SCHEMATIC DETAIL (12)**  
NTS (SCHEDULE C)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  
20-26-12 24-97

**DETAIL (14)**  
NTS (SCHEDULE A & B)

**VERIFY SCALES**  
BAR IS ONE INCH ON ORIGINAL DRAWING.  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: WINTER 1988 WATER SYSTEM REHABILITATION  
ELECTRICAL DETAILS  
SCHEDULE A & B

| APPROVALS    | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|--------------|----------|------|-----------|----------|------|
| D.R.C. Chair |          |      |           |          |      |
| Trans. Dev.  |          |      |           |          |      |
| Utility Dev. |          |      |           |          |      |

DRAWING NO. E-97 MAP NO. SHEET 23 OF 68

**AS BUILT INFORMATION**

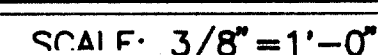
| CONTRACT NO. | DATE | REVISION | DATE |
|--------------|------|----------|------|
|              |      |          |      |

**ENGINEER'S SEAL**

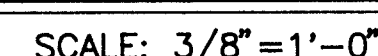
**REVISIONS**

| NO. | DATE | REVISION |
|-----|------|----------|
|     |      |          |

DESIGNED BY: R. CLAUSS  
DRAWN BY: A. GORNE  
CHECKED BY: J. TURNER



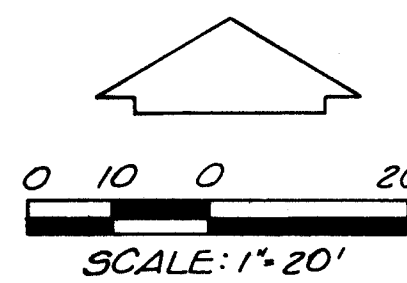
AFF = "ABOVE FINISHED FLOOR" EXCEPT WHERE EQUIPMENT PADS ARE INSTALLED, THEN "ABOVE FINISHED PAD."  
 NOTE: CONDUIT DIMENSIONS ARE BASED ON 12" x 24" OUTSIDE DIMENSION OF BUILDING AND SLAB FOR WELLS  
 1 & 2 & 110" x 20" FOR WELLS 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823



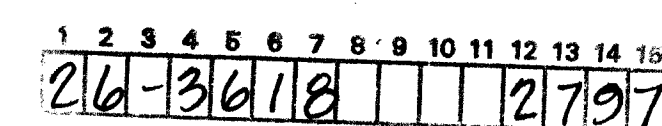
**VERIFY SCALES**  
BAR IS ONE INCH ON  
ORIGINAL DRAWING.  
0  1"  
IF NOT ONE INCH ON  
THIS SHEET, ADJUST  
SCALES ACCORDINGLY.

25





NOTE: CONTRACTOR SHALL RESTORE AND/OR REPLACE ALL PAVEMENT, CURBS, SIDEWALKS, ROCK SURFACING, LANDSCAPING, GRASS AREAS AND OTHER SITE FEATURES DAMAGED EITHER DIRECTLY OR INDIRECTLY BY CONTRACTOR CONSTRUCTION OPERATIONS.



**VERIFY SCALES**  
BAR IS ONE INCH ON  
ORIGINAL DRAWING.  
0 1"  
IF NOT ONE INCH ON  
THIS SHEET, ADJUST  
SCALES ACCORDINGLY

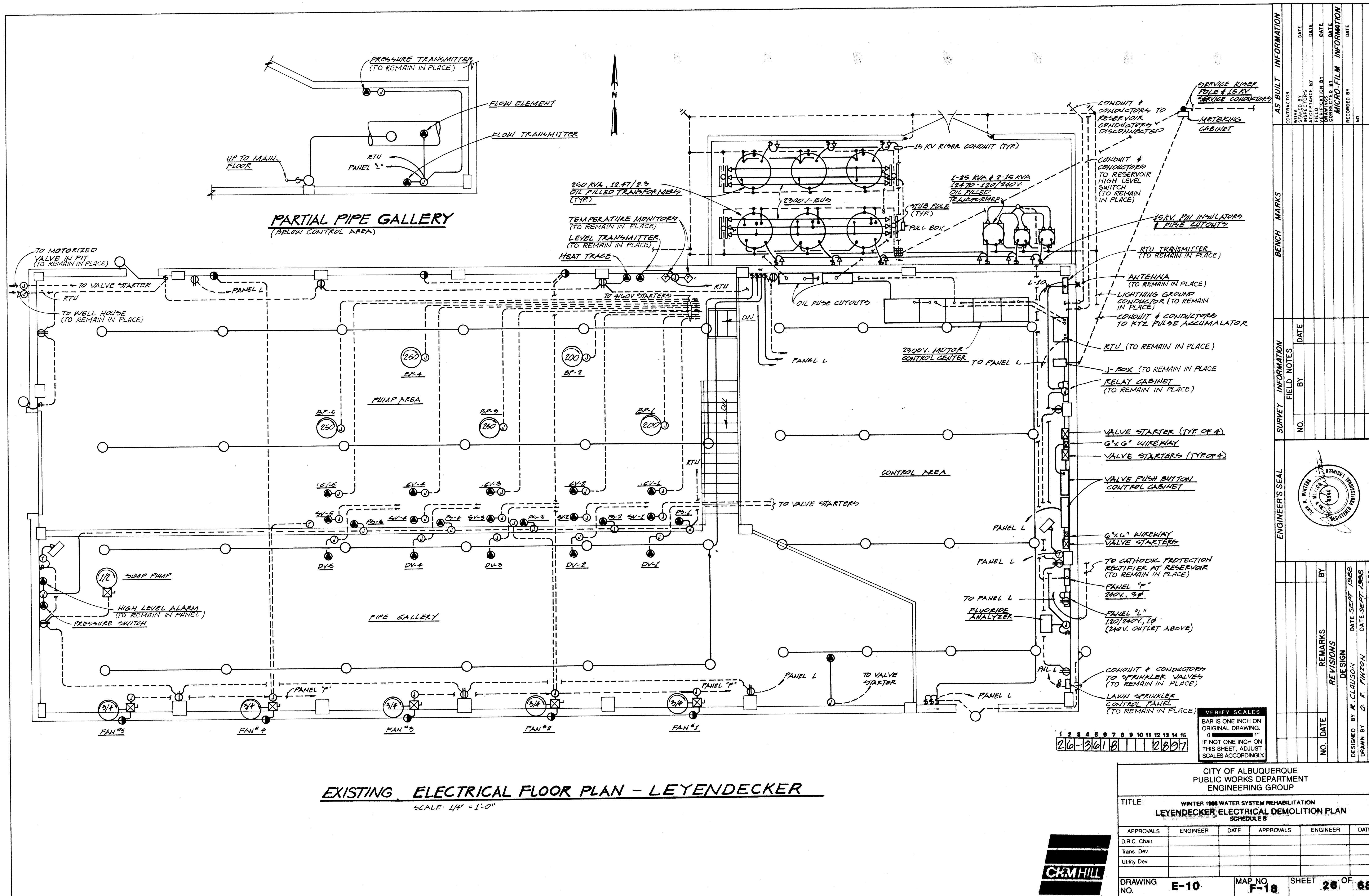
CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

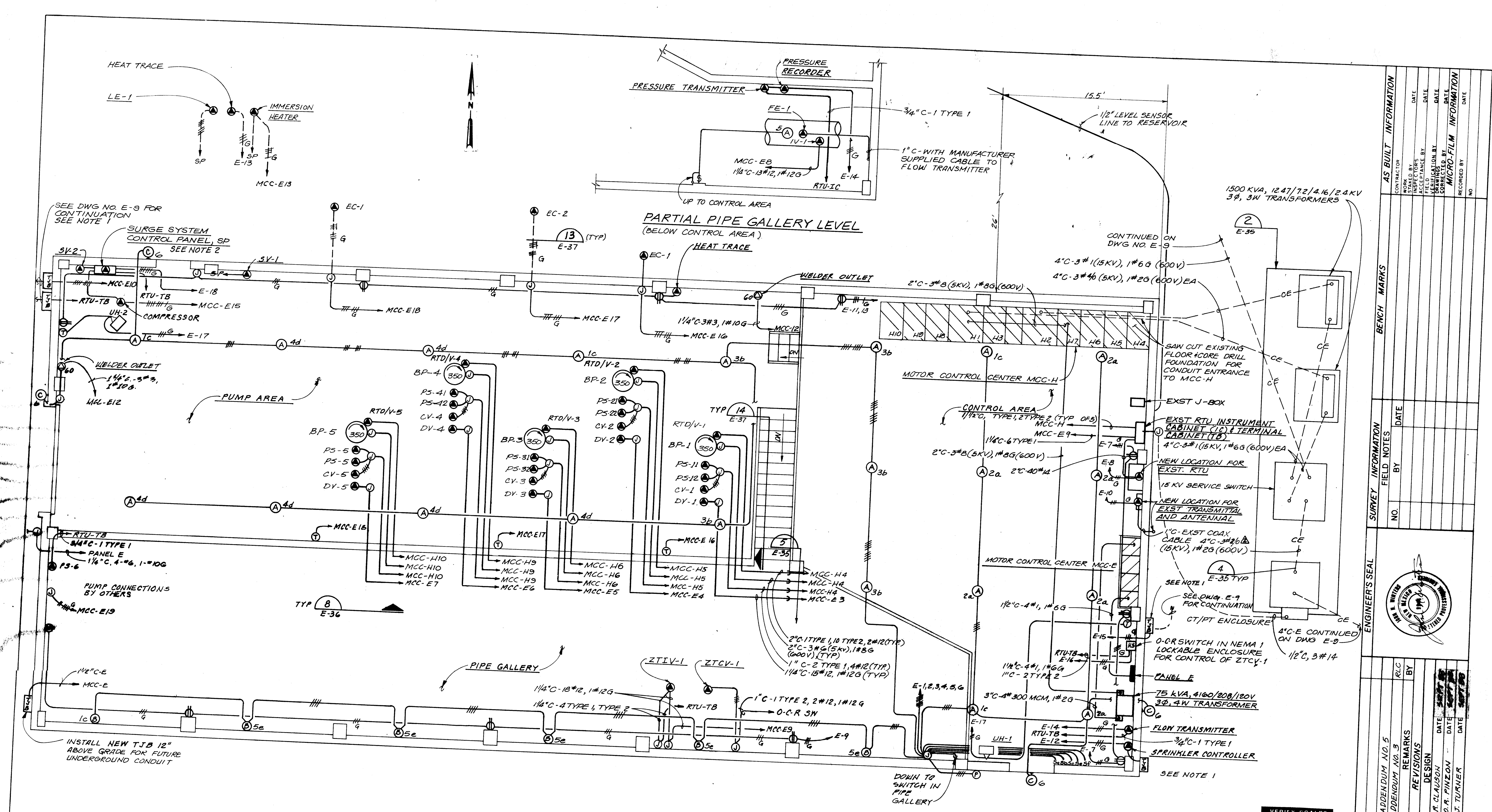
**TITLE:** WINTER 1988 WATER SYSTEM REHABILITATION  
LEYENDECKER & THOMAS ELECTRICAL SITE PLAN  
SCHEDULE B

| APPROVALS    | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|--------------|----------|------|-----------|----------|------|
| D.R.C. Chair |          |      |           |          |      |
| Trans. Dev.  |          |      |           |          |      |
| Utility Dev. |          |      |           |          |      |
|              |          |      |           |          |      |

DRAWING NO. **E-9** MAP NO. **18** SHEET **25** OF **28**

| ENGINEER'S SEAL                                                                                                                                                                                                                                                            |  |  |  | SURVEY INFORMATION |    | BENCH MARKS |  | AS BUILT INFORMATION |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--------------------|----|-------------|--|----------------------|--|
|                                                                                                                                                                                                                                                                            |  |  |  | FIELD NOTES        |    |             |  |                      |  |
|                                                                                                                                                                                                                                                                            |  |  |  | NO.                | BY | DATE        |  |                      |  |
| <div style="display: flex; justify-content: space-between;"> <div>           R.C. NO. DATE<br/>           REMARKS<br/>           BY         </div> <div>           ADDENDUM NO. 3<br/>           10/1/84<br/>           REVISION<br/>           DATE         </div> </div> |  |  |  |                    |    |             |  |                      |  |
| DESIGNED BY R. CLAUSEN<br>DRAWN BY O. R. PINZON                                                                                                                                                                                                                            |  |  |  |                    |    |             |  |                      |  |
| <div style="display: flex; justify-content: space-between;"> <div>           NO. DATE<br/>           REMARKS<br/>           BY         </div> <div>           ADDENDUM NO. 3<br/>           10/1/84<br/>           REVISION<br/>           DATE         </div> </div>      |  |  |  |                    |    |             |  |                      |  |
| <div style="display: flex; justify-content: space-between;"> <div>           NO. DATE<br/>           REMARKS<br/>           BY         </div> <div>           ADDENDUM NO. 3<br/>           10/1/84<br/>           REVISION<br/>           DATE         </div> </div>      |  |  |  |                    |    |             |  |                      |  |
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| <div style="display: flex; justify-content: space-between;"> <div>           NO. DATE<br/>           REMARKS<br/>           BY         </div> <div>           ADDENDUM NO. 3<br/>           10/1/84<br/>           REVISION<br/>           DATE         </div> </div>      |  |  |  |                    |    |             |  |                      |  |
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| <div style="display: flex; justify-content: space-between;"> <div>           NO. DATE<br/>           REMARKS<br/>           BY         </div> <div>           ADDENDUM NO. 3<br/>           10/1/84<br/>           REVISION<br/>           DATE         </div> </div>      |  |  |  |                    |    |             |  |                      |  |
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| <div style="display: flex; justify-content: space-between;"> <div>           NO. DATE<br/>           REMARKS<br/>           BY         </div> <div>           ADDENDUM NO. 3<br/>           10/1/84<br/>           REVISION<br/>           DATE         </div> </div>      |  |  |  |                    |    |             |  |                      |  |
| <div style="display: flex; justify-content: space-between;"> <div>           NO. DATE<br/>           REMARKS<br/>           BY         </div> <div>           ADDENDUM NO. 3<br/>           10/1/84<br/>           REVISION<br/>           DATE         </div> </div>      |  |  |  |                    |    |             |  |                      |  |
| <div style="display: flex; justify-content: space-between;"> <div>           NO. DATE<br/>           REMARKS<br/>           BY         </div> <div>           ADDENDUM NO. 3<br/>           10/1/84<br/>           REVISION<br/>           DATE         </div> </div>      |  |  |  |                    |    |             |  |                      |  |
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| <div style="display: flex; justify-content: space-between;"> <div>           NO. DATE<br/>           REMARKS<br/>           BY         </div> <div>           ADDENDUM NO. 3<br/>           10/1/84<br/>           REVISION<br/>           DATE         </div> </div>      |  |  |  |                    |    |             |  |                      |  |
| <div style="display: flex; justify-content: space-between;"> <div>           NO. DATE<br/>           REMARKS<br/>           BY         </div> <div>           ADDENDUM NO. 3<br/>           10/1/84<br/>           REVISION<br/>           DATE         </div> </div>      |  |  |  |                    |    |             |  |                      |  |
| <div style="display: flex; justify-content: space-between;"> <div>           NO. DATE<br/>           REMARKS<br/>           BY         </div> <div>           ADDENDUM NO. 3<br/>           10/1/84<br/>           REVISION<br/>           DATE         </div> </div>      |  |  |  |                    |    |             |  |                      |  |
| <div style="display: flex; justify-content: space-between;"> <div>           NO. DATE<br/>           REMARKS<br/>           BY         </div> <div>           ADDENDUM NO. 3<br/>           10/1/84<br/>           REVISION<br/>           DATE         </div> </div>      |  |  |  |                    |    |             |  |                      |  |
| <div style="display: flex; justify-content: space-between;"> <div>           NO. DATE<br/>           REMARKS<br/>           BY         </div> <div>           ADDENDUM NO. 3<br/>           10/1/84<br/>           REVISION<br/>           DATE         </div> </div>      |  |  |  |                    |    |             |  |                      |  |
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|                                                                                                                                                                                                                                                                            |  |  |  |                    |    |             |  |                      |  |





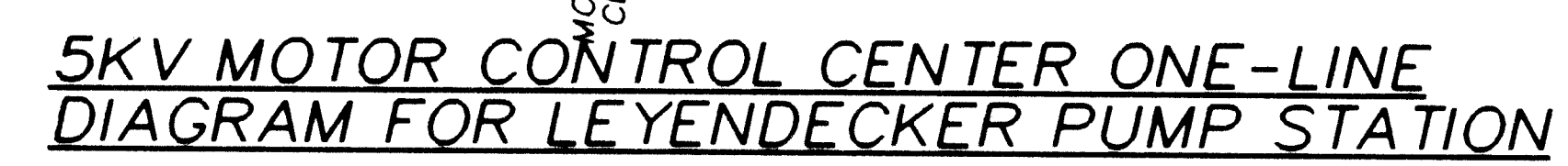
**LEYENDECKER PUMP STATION**  
SCALE 1/4\"/>

- NOTES:
1. CONNECT CONDUCTORS TO EXISTING CONDUCTORS IN NEW TJB.
  2. SURGE SYSTEM CONTROL PANEL (SP) PROVIDED UNDER SCHEDULE D. SP SHALL BE INSTALLED AND CONNECTED UNDER SCHEDULE B.



|                                                                                             |          |      |           |          |      |
|---------------------------------------------------------------------------------------------|----------|------|-----------|----------|------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING GROUP                         |          |      |           |          |      |
| TITLE: WINTER 1998 WATER SYSTEM REHABILITATION<br>LEYENDECKER ELECTRICAL PLAN<br>SCHEDULE B |          |      |           |          |      |
| APPROVALS                                                                                   | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
| D.R.C. Chair                                                                                |          |      |           |          |      |
| Trans. Dev.                                                                                 |          |      |           |          |      |
| Utility Dev.                                                                                |          |      |           |          |      |
| DRAWING NO.                                                                                 | E-11     |      | MAP NO.   | F-15     |      |
| SHEET 27 OF 68                                                                              |          |      |           |          |      |

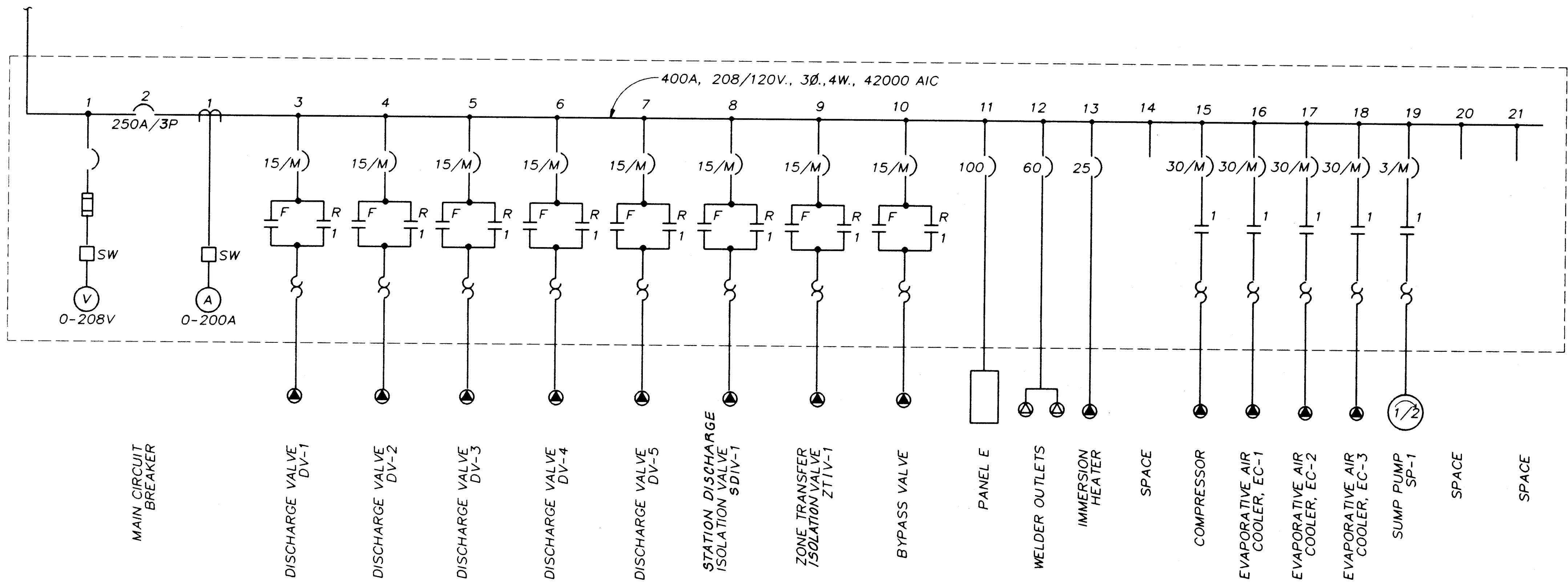
|                      |      |
|----------------------|------|
| AS BUILT INFORMATION |      |
| CONTRACTOR           | DATE |
| DESIGNED BY          | DATE |
| CHECKED BY           | DATE |
| APPROVED BY          | DATE |
| REVISIONS            |      |
| NO.                  | DATE |
| REVISIONS            |      |
| NO.                  | DATE |
| DESIGN               |      |
| DESIGNED BY          | DATE |
| DRAWN BY             | DATE |
| CHECKED BY           | DATE |
| APPROVED BY          | DATE |



|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 2 | 6 | - | 3 | 6 | 1 | 8 |   |   |    |    | 3  | 0  | 9  | -  |

**VERIFY SCALES**  
 BAR IS ONE INCH ON  
 ORIGINAL DRAWING.  
 0  1"  
 IF NOT ONE INCH ON  
 THIS SHEET, ADJUST  
 SCALES ACCORDINGLY

|                                                                                                                 |          |                     |           |                              |      |
|-----------------------------------------------------------------------------------------------------------------|----------|---------------------|-----------|------------------------------|------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING GROUP                                             |          |                     |           |                              |      |
| TITLE: WINTER 1988 WATER SYSTEM REHABILITATION<br>LEYENDECKER 4160V ONE-LINE DIAGRAM & ELEVATIONS<br>SCHEDULE B |          |                     |           |                              |      |
| APPROVALS                                                                                                       | ENGINEER | DATE                | APPROVALS | ENGINEER                     | DATE |
| D.F.C. Check                                                                                                    |          |                     |           |                              |      |
| Trans. Dev.                                                                                                     |          |                     |           |                              |      |
| Utility Dev.                                                                                                    |          |                     |           |                              |      |
| DRAWING NO. <b>E-12</b>                                                                                         |          | MAP NO. <b>F-18</b> |           | SHEET <b>28</b> OF <b>68</b> |      |



MOTOR CONTROL CENTER ONE-LINE DIAGRAM

|                      |                      |                      |                      |                      |                      |         |               |                  |       |            |                             |                             |                             |                |       |       |    |    |    |    |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------|---------------|------------------|-------|------------|-----------------------------|-----------------------------|-----------------------------|----------------|-------|-------|----|----|----|----|
| 1                    | 2                    | 3                    | 4                    | 5                    | 6                    | 7       | 8             | 9                | 10    | 11         | 12                          | 13                          | 14                          | 15             | 16    | 17    | 18 | 19 | 20 | 21 |
| DISCHARGE VALVE DV-1 | DISCHARGE VALVE DV-2 | DISCHARGE VALVE DV-3 | DISCHARGE VALVE DV-4 | DISCHARGE VALVE DV-5 | ISOLATION VALVE IV-1 | PANEL E | WELDER OUTLET | IMMERSION HEATER | SPACE | COMPRESSOR | EVAPORATIVE AIR COOLER EC-1 | EVAPORATIVE AIR COOLER EC-2 | EVAPORATIVE AIR COOLER EC-3 | SUMP PUMP SP-1 | SPACE | SPACE |    |    |    |    |

MOTOR CONTROL CENTER MCC-E ELEVATION

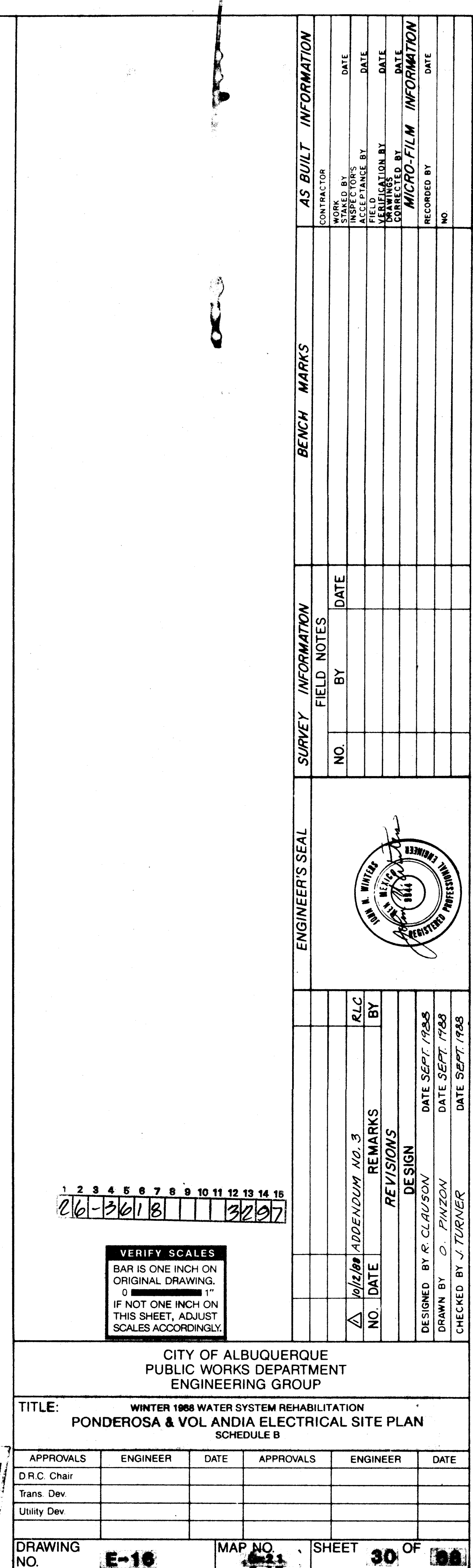


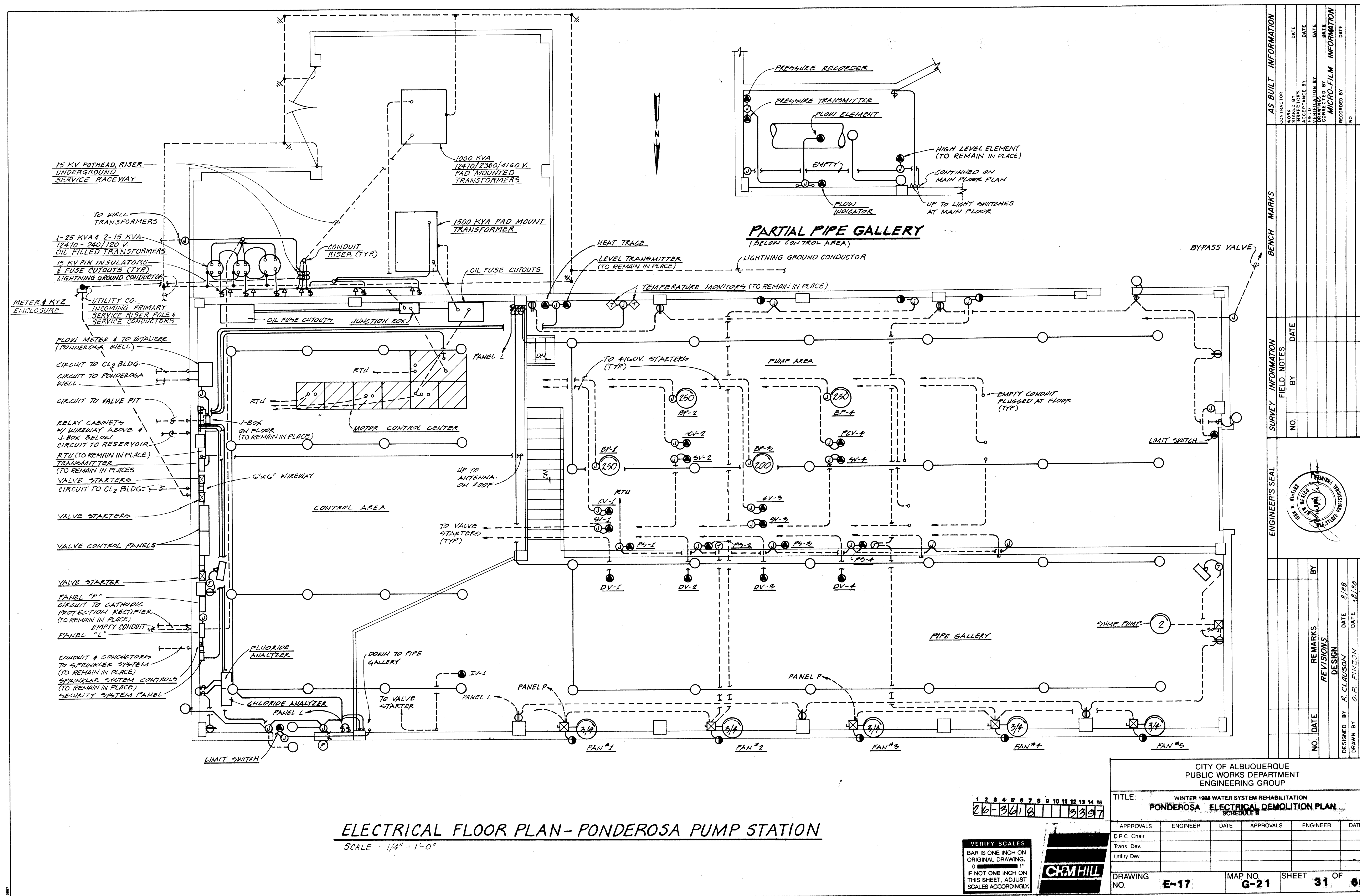
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  
26-27-28-29-30-31-32-33

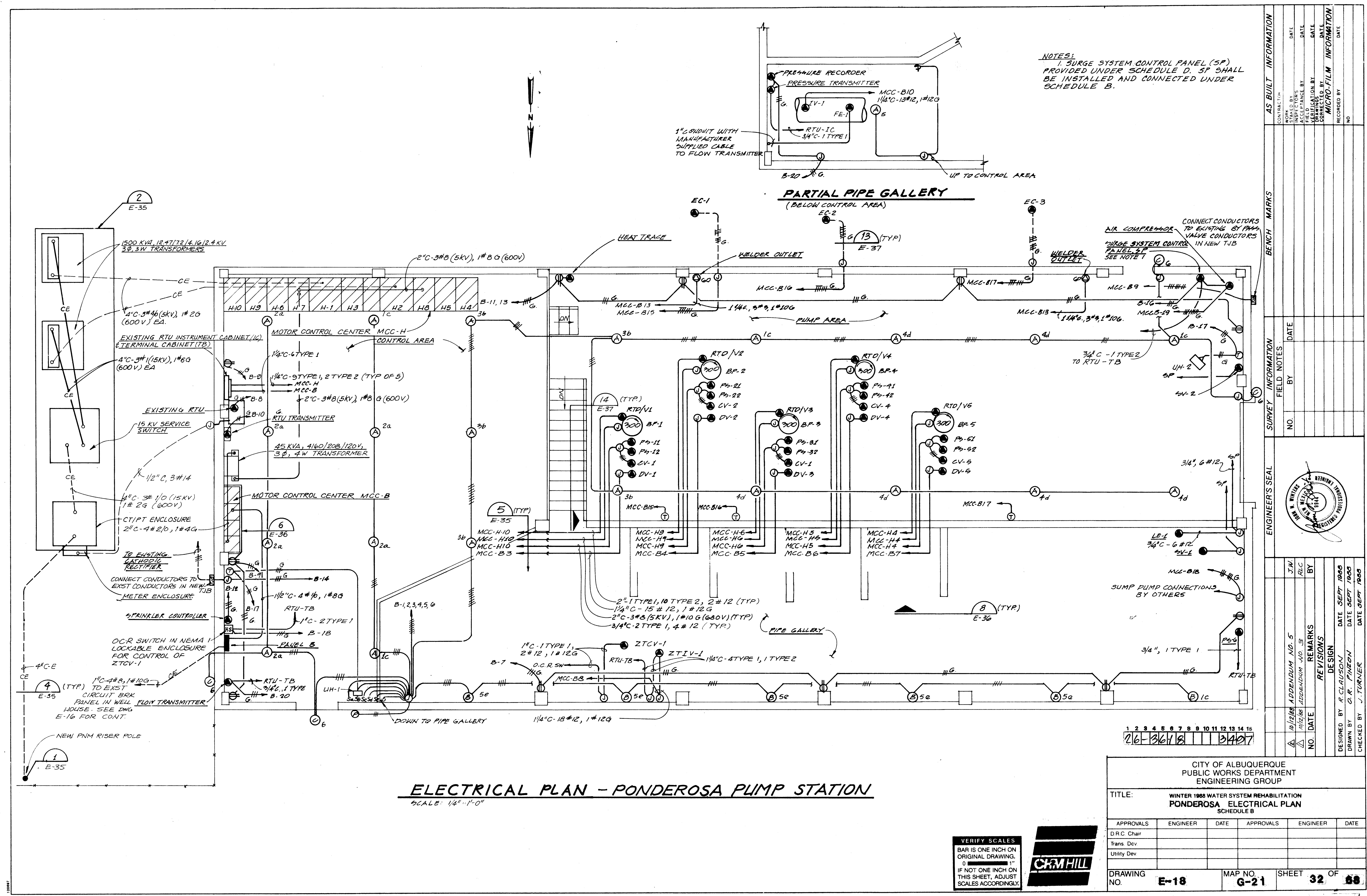
VERIFY SCALES  
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ORIGINAL DRAWING.  
IF NOT ONE INCH ON  
THIS SHEET, ADJUST  
SCALES ACCORDINGLY.

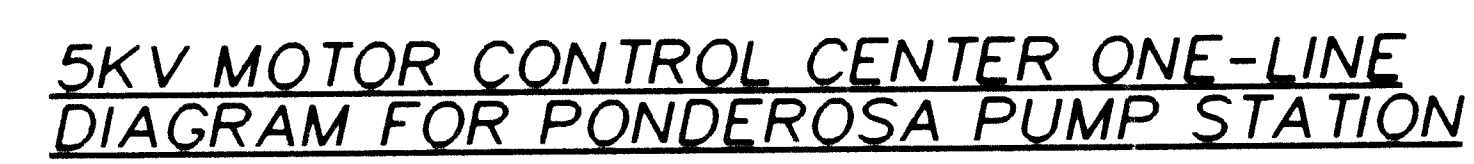
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|----------------------------------------------------------------------------------------------------------------|----------|---------|-----------|----------|----------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING GROUP                                            |          |         |           |          |          |
| TITLE: WINTER 1988 WATER SYSTEM REHABILITATION<br>LEYENDECKER 208V ONE-LINE DIAGRAM & ELEVATIONS<br>SCHEDULE B |          |         |           |          |          |
| APPROVALS                                                                                                      | ENGINEER | DATE    | APPROVALS | ENGINEER | DATE     |
| Dir. C. Over                                                                                                   |          |         |           |          |          |
| Trans. Dev.                                                                                                    |          |         |           |          |          |
| Utility Dev.                                                                                                   |          |         |           |          |          |
| DRAWING NO.                                                                                                    | E-13     | MAP NO. | F-18      | SHEET    | 29 OF 68 |

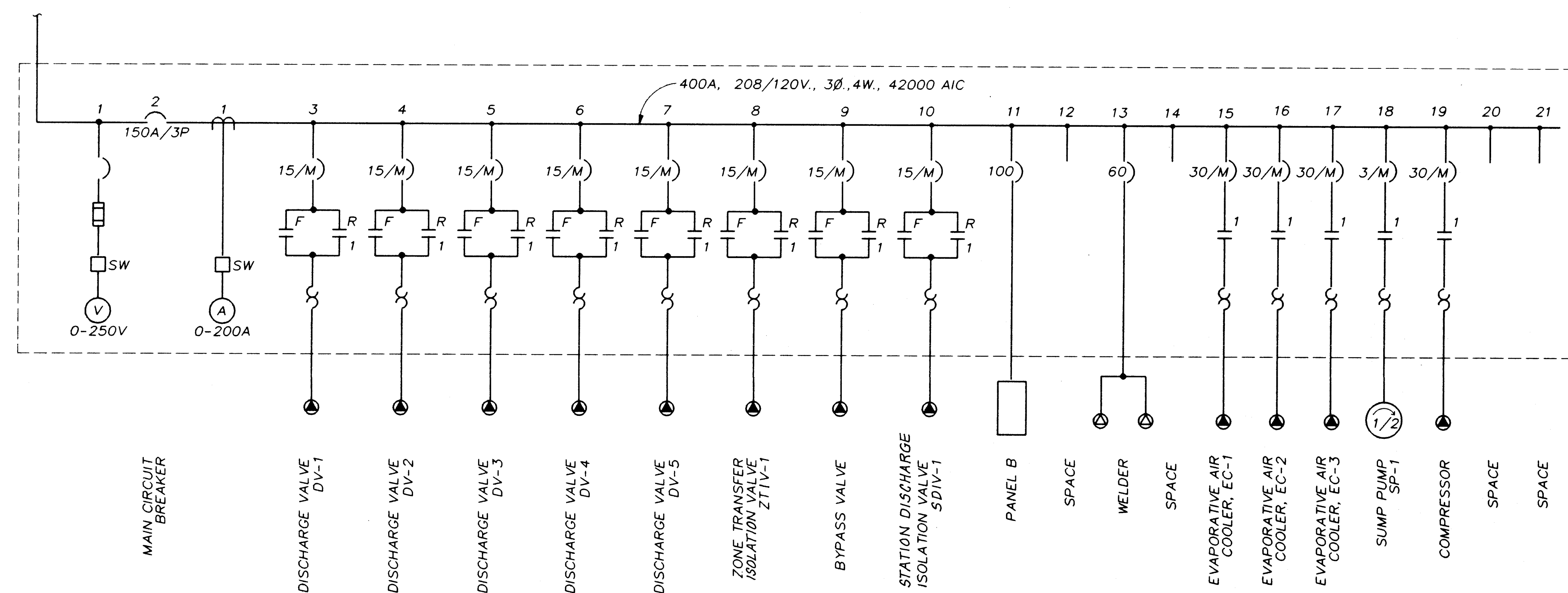
|                                                                                                                             |  |                                                |    |             |  |                      |  |
|-----------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------|----|-------------|--|----------------------|--|
| ENGINEER'S SEAL                                                                                                             |  | SURVEY INFORMATION                             |    | BENCH MARKS |  | AS BUILT INFORMATION |  |
|                                                                                                                             |  | NO.                                            | BY | DATE        |  |                      |  |
|                                                                                                                             |  |                                                |    |             |  |                      |  |
| ADDENDUM NO. 3<br>NO. DATE<br>REVISIONS<br>DESIGN<br>DESIGNED BY: R. CLAUSON<br>DRAWN BY: R. SHARP<br>CHECKED BY: J. TURNER |  | MICRO-FILM INFORMATION<br>NO. DATE<br>NO. DATE |    |             |  |                      |  |



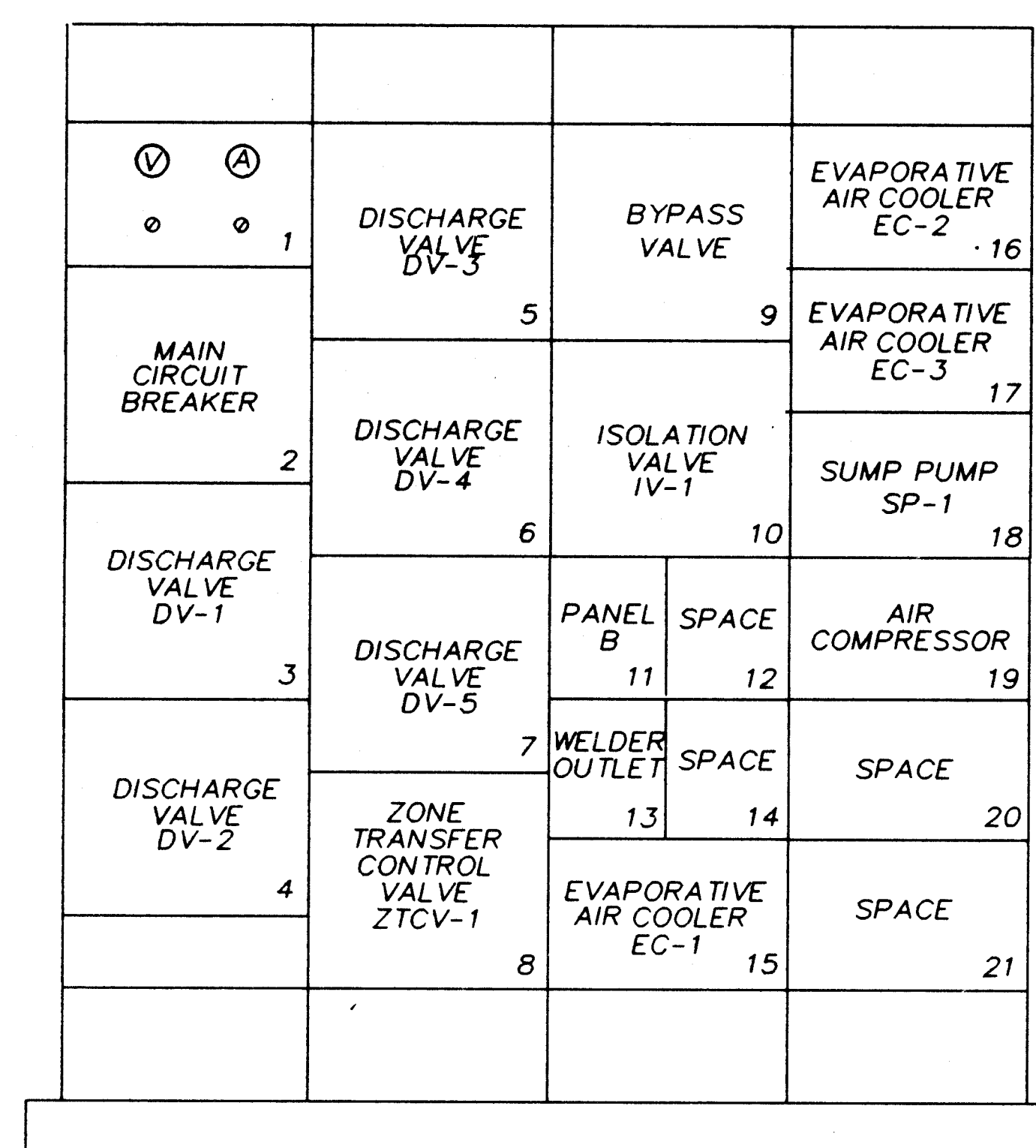








MOTOR CONTROL CENTER ONE-LINE DIAGRAM



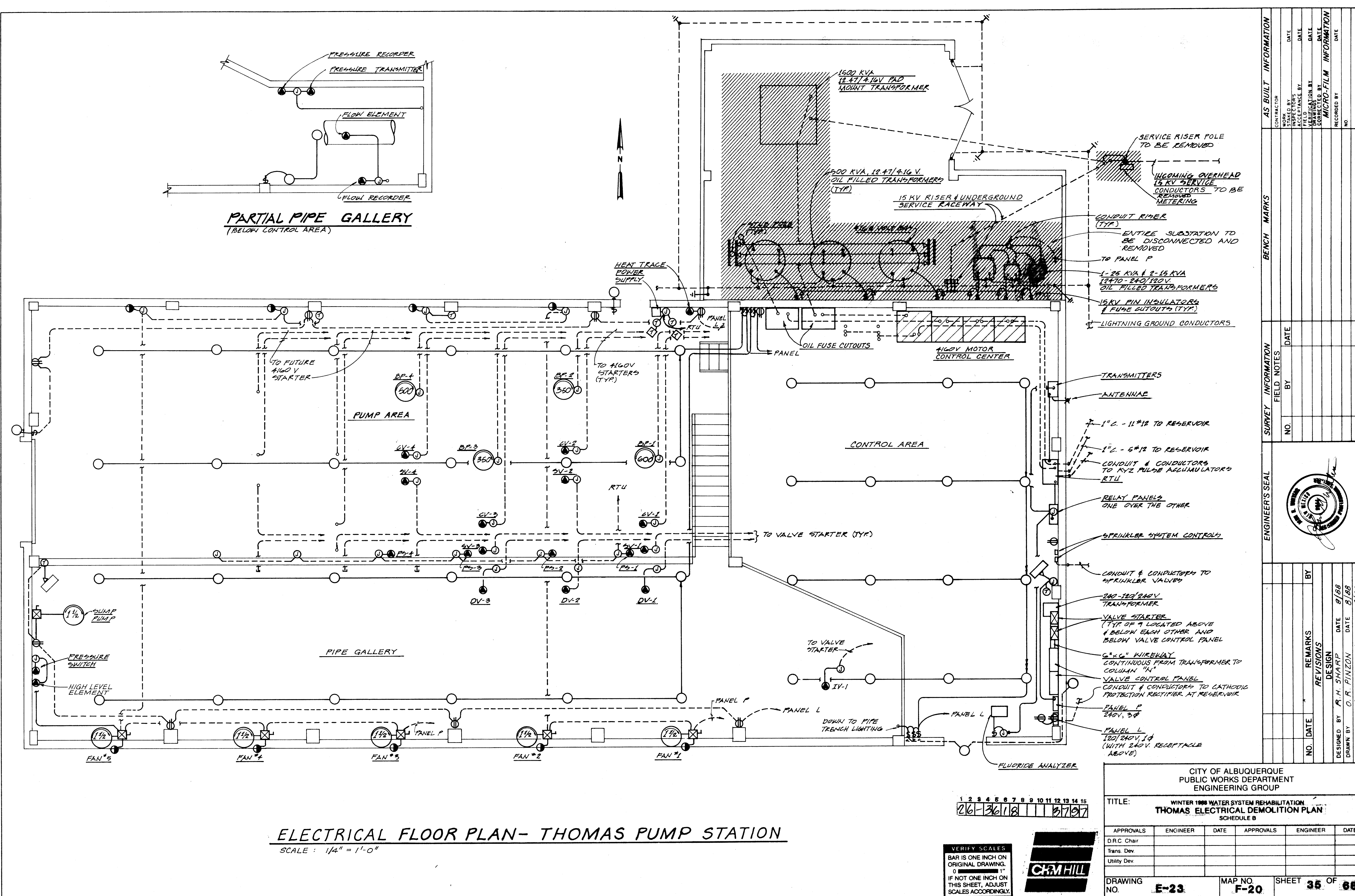
MOTOR CONTROL CENTER MCC-B ELEVATION

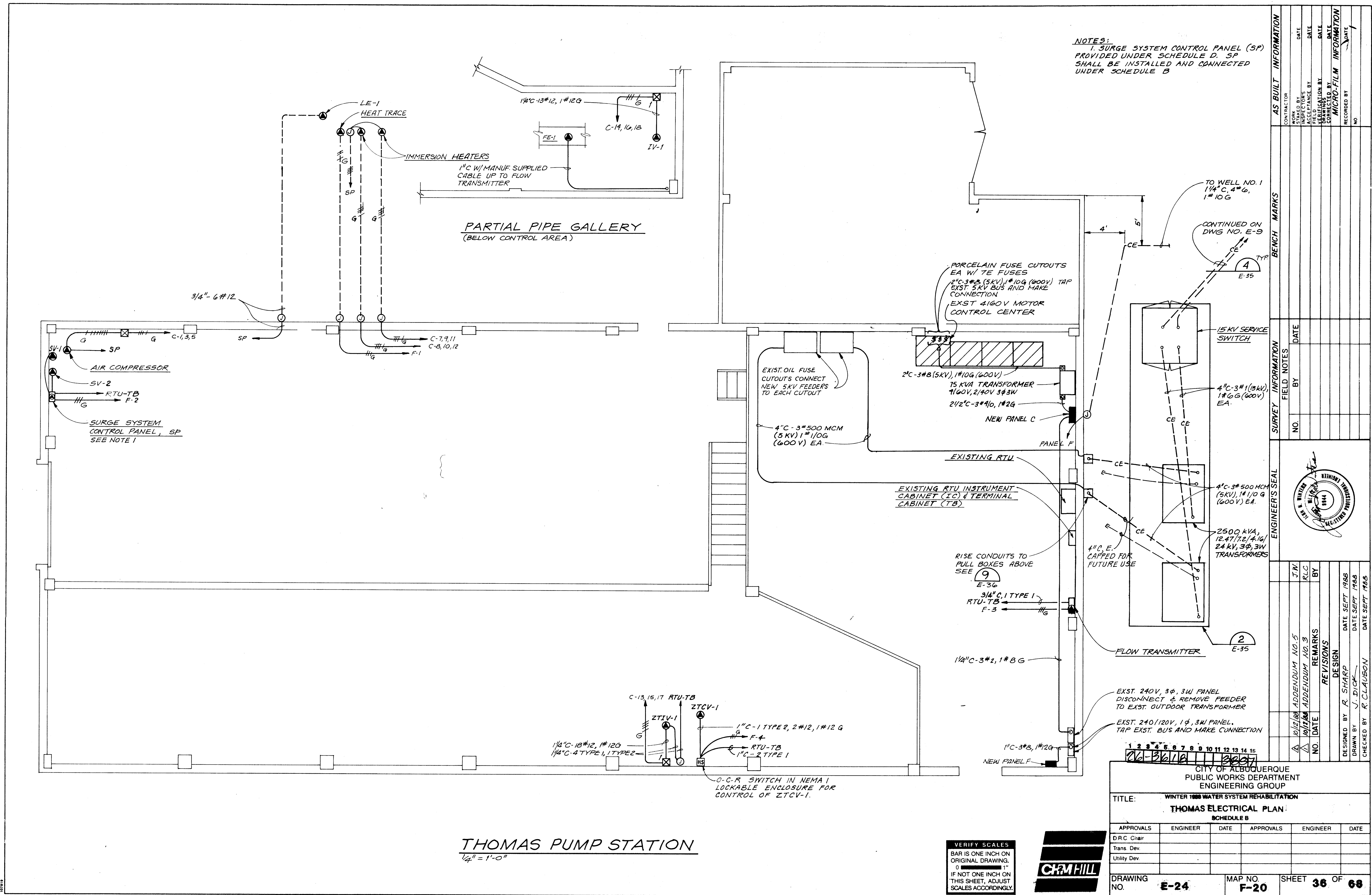
[illegible]

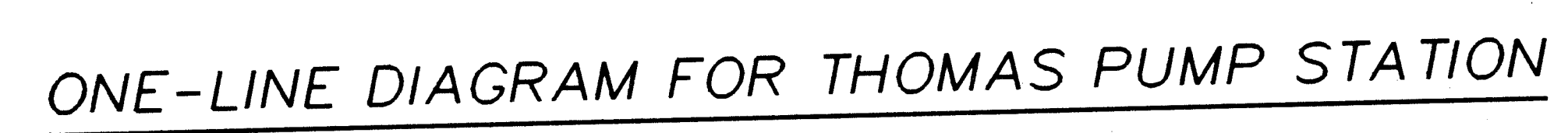
|   |   |   |   |   |   |   |   |   |    |    |    |    |    |   |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 1 |
| 2 | 6 | - | 3 | 6 | 1 | 8 |   |   |    |    |    | 3  | 6  | 9 |

**VERIFY SCALES**  
BAR IS ONE INCH ON  
ORIGINAL DRAWING.  
0 1"  
IF NOT ONE INCH ON  
THIS SHEET, ADJUST  
SCALES ACCORDINGLY

|                                                                     |          |         |           |          |          |
|---------------------------------------------------------------------|----------|---------|-----------|----------|----------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING GROUP |          |         |           |          |          |
| TITLE: WINTER 1988 WATER SYSTEM REHABILITATION                      |          |         |           |          |          |
| PONDEROSA 208V ONE-LINE DIAGRAM & ELEVATIONS                        |          |         |           |          |          |
| SCHEDULE B                                                          |          |         |           |          |          |
| APPROVALS                                                           | ENGINEER | DATE    | APPROVALS | ENGINEER | DATE     |
| D.B.C. Chair                                                        |          |         |           |          |          |
| Trans. Div.                                                         |          |         |           |          |          |
| Utility Div.                                                        |          |         |           |          |          |
| DRAWING NO.                                                         | E-20     | MAP NO. | G-21      | SHEET    | 34 OF 68 |

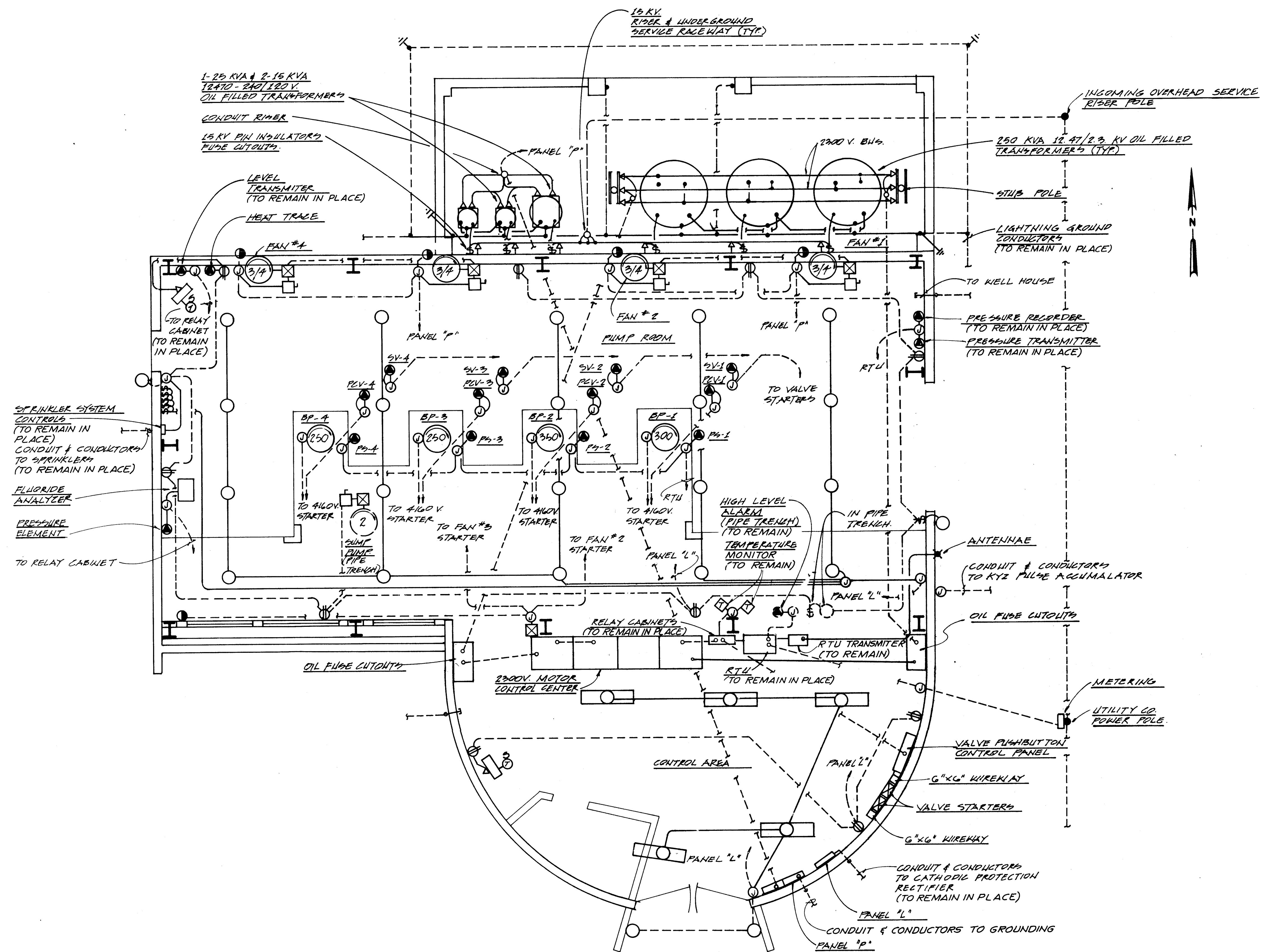






**CHAM HILL**

39



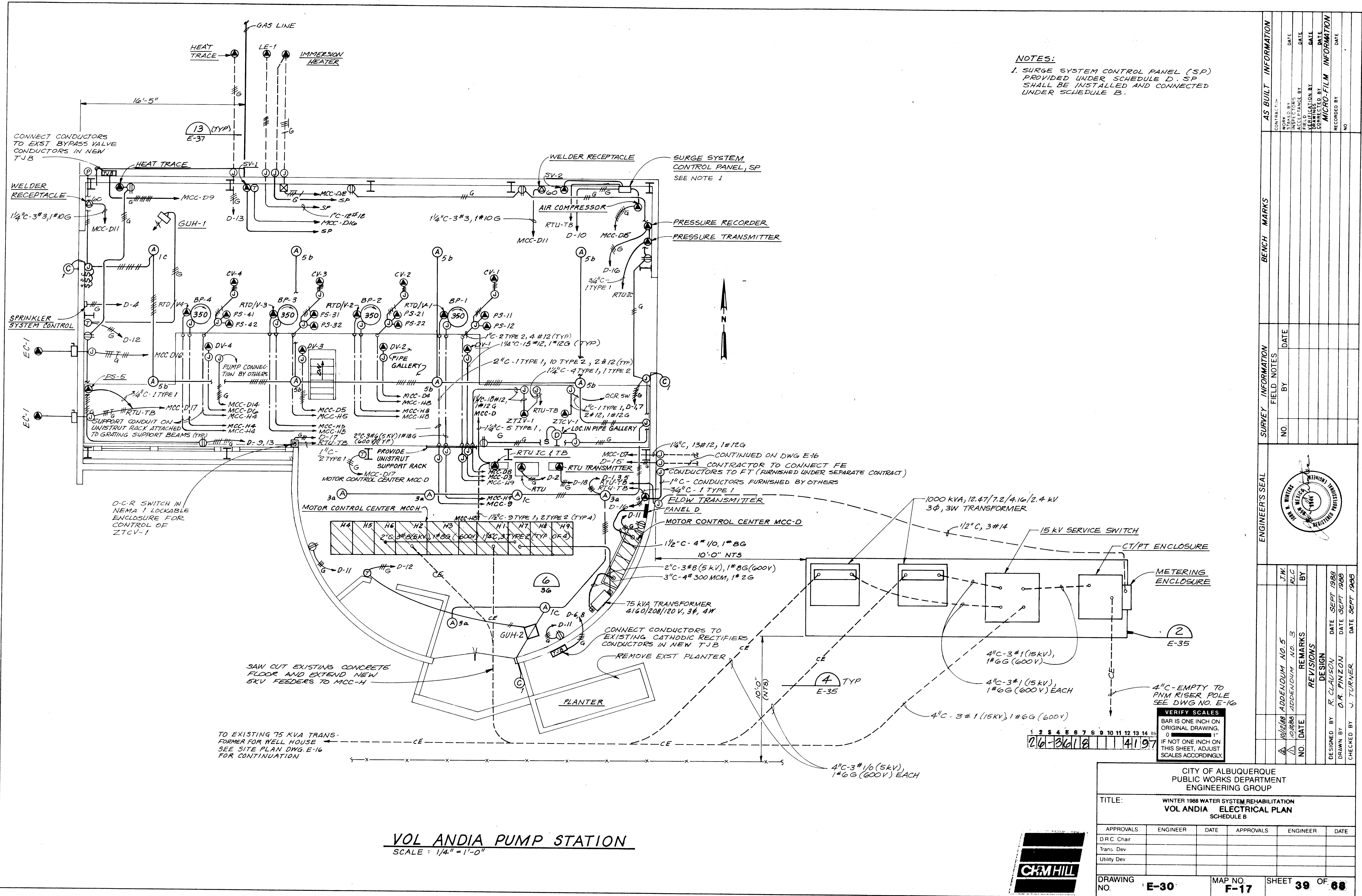
**VOL ANDIA  
ELECTRICAL FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  
20-3618 1114097

**VERTICAL SCALES**  
BAR IS ONE INCH ON ORIGINAL DRAWING.  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

|                                                                                                     |          |         |           |          |          |
|-----------------------------------------------------------------------------------------------------|----------|---------|-----------|----------|----------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING GROUP                                 |          |         |           |          |          |
| TITLE: WINTER 1988 WATER SYSTEM REHABILITATION<br>VOLANDIA ELECTRICAL DEMOLITION PLAN<br>SCHEDULE B |          |         |           |          |          |
| APPROVALS                                                                                           | ENGINEER | DATE    | APPROVALS | ENGINEER | DATE     |
| D.R.C. Chair                                                                                        |          |         |           |          |          |
| Trans. Div.                                                                                         |          |         |           |          |          |
| Utility Div.                                                                                        |          |         |           |          |          |
| DRAWING NO.                                                                                         | E-29     | MAP NO. | F-17      | SHEET    | 38 OF 68 |

|                      |      |             |    |                    |    |                 |    |
|----------------------|------|-------------|----|--------------------|----|-----------------|----|
| AS BUILT INFORMATION |      | BENCH MARKS |    | SURVEY INFORMATION |    | ENGINEER'S SEAL |    |
| CONTRACTOR           | DATE | NO.         | BY | NO.                | BY | NO.             | BY |
| WORKS BY             | DATE |             |    |                    |    |                 |    |
| DESIGNED BY          | DATE |             |    |                    |    |                 |    |
| CHECKED BY           | DATE |             |    |                    |    |                 |    |
| APPROVED BY          | DATE |             |    |                    |    |                 |    |
| RECORDED BY          | DATE |             |    |                    |    |                 |    |
| NO.                  |      |             |    |                    |    |                 |    |





NTS

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**VERIFY SCALES**  
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ORIGINAL DRAWING  
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IF NOT ONE INCH OF  
THIS SHEET, ADJUST  
SCALES ACCORDING

|                                                                                                          |                                                                                                      |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <p style="text-align: center;">CITY OF ALBUQUERQUE<br/>PUBLIC WORKS DEPARTMENT<br/>ENGINEERING GROUP</p> |                                                                                                      |
| TITLE:                                                                                                   | <p>WINTER 1988 WATER SYSTEM REHABILITATION<br/>VOL ANDIA 4160V ONE-LINE DIAGRAM &amp; ELEVATIONS</p> |

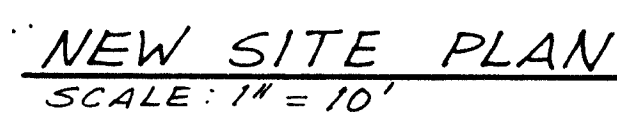
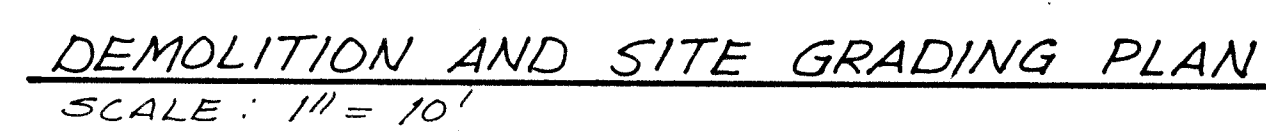
| SCHEDULE B   |          |      |           |          |  |
|--------------|----------|------|-----------|----------|--|
| APPROVALS    | ENGINEER | DATE | APPROVALS | ENGINEER |  |
| D.R.C. Chair |          |      |           |          |  |
| Trans. Dev   |          |      |           |          |  |
| Utility Dev  |          |      |           |          |  |

|                |             |         |             |       |           |    |           |
|----------------|-------------|---------|-------------|-------|-----------|----|-----------|
| DRAWING<br>NO. | <b>E-31</b> | MAP NO. | <b>F-17</b> | SHEET | <b>40</b> | OF | <b>68</b> |
|----------------|-------------|---------|-------------|-------|-----------|----|-----------|

[illegible]



1. DEMOLISH BUILDING, PIPING, VAULTS AND FLOOR SLABS.
2. LOCATION OF EXISTING BURIED UTILITIES ARE APPROXIMATE AND MUST BE FIELD VERIFIED BY CONTRACTOR.
3. ALL LOCATIONS FOR PIPING INSTALLED THROUGH THE PUMP BUILDING SLAB SHALL HAVE A MIN. TOLERANCE. CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION BEFORE PLACING CONCRETE AROUND ANY EMBEDDED PIPE.
4. MAINTAIN UNIFORM GRADE BETWEEN CONTOUR LINES AND SLOOT ELEVATIONS.
5. FOR ELECTRICAL CONDUIT LAYOUT, SEE CONDUIT SCHEMATIC DWG E-37.
6. FOR WATER SERVICE DETAIL SEE M-5.
7. FOR SLAB, SIDEWALK, PIPING AND BUILDING DETAILS SEE DWG S-5.
8. PROVIDE INSULATING FLANGE AT WSP SIDE OF CHECK VALVES. SEE (3)
9. CONTRACTOR SHALL ESTABLISH HIS OWN TBM ON EACH SITE PRIOR TO DEMOLITION OF EXISTING FACILITIES.
10. WELDED STEEL PIPE UNDER BUILDING SLAB SHALL BE ENCASED W/A MINIMUM OF 12" THICKNESS OF CONCRETE AROUND ALL PIPE SURFACES, TYPICAL.
11. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS FOR WATER TO BE DRAINED FROM EXISTING WELL DISCHARGE LINES. CONTRACTOR SHALL PROVIDE SANITARY TEMPORARY CAP ON DISCHARGE LINE UNTIL READY TO MAKE CONNECTION WITH NEW PIPING.
12. UNIFORMLY SLOPE PIPE FROM MINIMUM COVER DEPTH TO MEET EXISTING PIPE, TYPICAL FOR DISCHARGE AND DRAIN LINES.
13. TRANSFORMER PADS (BY OTHERS) WILL BE IN PLACE @ DURANES WELLS #3, 4 & 7 PRIOR TO THE SCH. C NOTICE TO PROCEED DATE.



**VERIFY SCALES**  
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0  1"  
IF NOT ONE INCH ON  
THIS SHEET, ADJUST  
SCALES ACCORDINGLY

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

**TITLE:** WINTER 1988 WATER SYSTEM REHABILITATION  
DURANES NO. 3 DEMOLITION & GRADING, SITE PLAN

| SCHEDULE C   |          |      |           |          |      |
|--------------|----------|------|-----------|----------|------|
| APPROVALS    | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
| D.R.C. Chair |          |      |           |          |      |
| Trans. Dev   |          |      |           |          |      |
| Utility Dev  |          |      |           |          |      |

DRAWING NO. **1** MAP NO. **H-12** SHEET **42** OF **42**

[illegible]

DEMOLITION AND SITE GRADING PLAN  
SCALE: 1" = 10'

NEW SITE PLAN  
SCALE: 1" = 10'

NOTE: SEE DWG C-1 FOR  
GENERAL WELL FACILITY  
NOTES. THESE NOTES APPLY  
TO WORK SHOWN ON THIS  
SHEET.

[illegible]

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 2 | 6 | - | 3 | 6 | 1 | 8 |   |   |    |    | 4  | 5  | 9  | 7  |

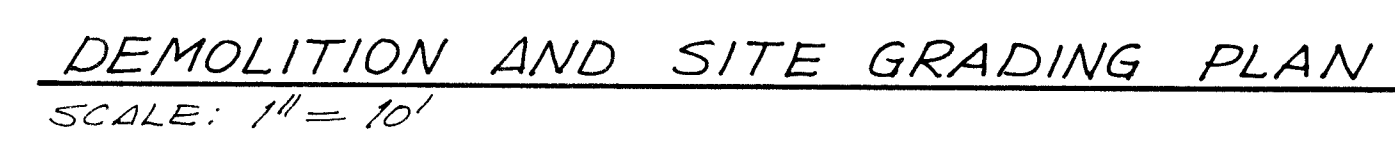
**VERIFY SCALES**  
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 IF NOT ONE INCH ON  
 THIS SHEET, ADJUST  
 SCALES ACCORDINGLY

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

**TITLE:** WINTER 1988 WATER SYSTEM REHABILITATION  
DURANES NO. 4 DEMOLITION & GRADING, SITE PLAN

| SCHEDULE C   |          |      |           |          |      |
|--------------|----------|------|-----------|----------|------|
| APPROVALS    | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
| D.R.C. Chair |          |      |           |          |      |
| Trans. Dev   |          |      |           |          |      |
| Utility Dev  |          |      |           |          |      |
|              |          |      |           |          |      |

|             |            |         |             |       |           |    |           |
|-------------|------------|---------|-------------|-------|-----------|----|-----------|
| DRAWING NO. | <b>C-2</b> | MAP NO. | <b>H-12</b> | SHEET | <b>43</b> | OF | <b>68</b> |
|-------------|------------|---------|-------------|-------|-----------|----|-----------|



|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 2 | 6 | - | 3 | 6 | 1 | 8 |   |   |    |    | 4  | 6  | 9  | 7  |

**VERIFY SCALES**  
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SCALES ACCORDINGLY

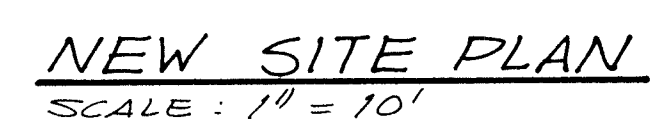
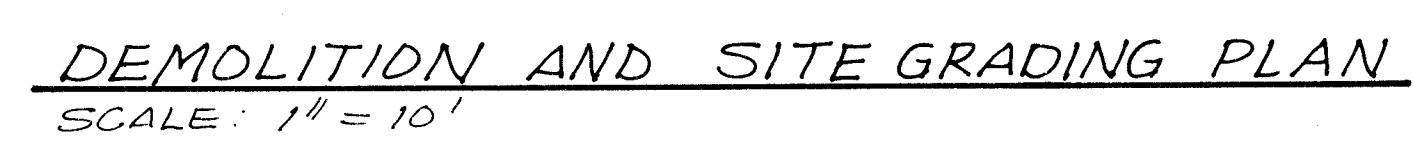
CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: WINTER 1988 WATER SYSTEM REHABILITATION  
DURANES NO. 5 DEMOLITION & GRADING, SITE PLAN  
SCHEDULE C

| SCHEDULE C   |          |      |           |          |      |
|--------------|----------|------|-----------|----------|------|
| APPROVALS    | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
| D.R.C. Chair |          |      |           |          |      |
| Trans. Dev   |          |      |           |          |      |
| Utility Dev  |          |      |           |          |      |
|              |          |      |           |          |      |

DRAWING NO. **C-3** MAP NO. **J-12** SHEET **44** OF **68**

[illegible]



NOTE: SEE DWG C-1 FOR GENERAL WELL FACILITY NOTES. THESE NOTES APPLY TO WORK SHOWN ON THIS SHEET.

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 2 | 6 | - | 3 | 6 | 1 | 8 |   |   |    |    | 4  | 7  | 9  | 7  |

**VERIFY SCALES**  
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 SCALES ACCORDINGLY

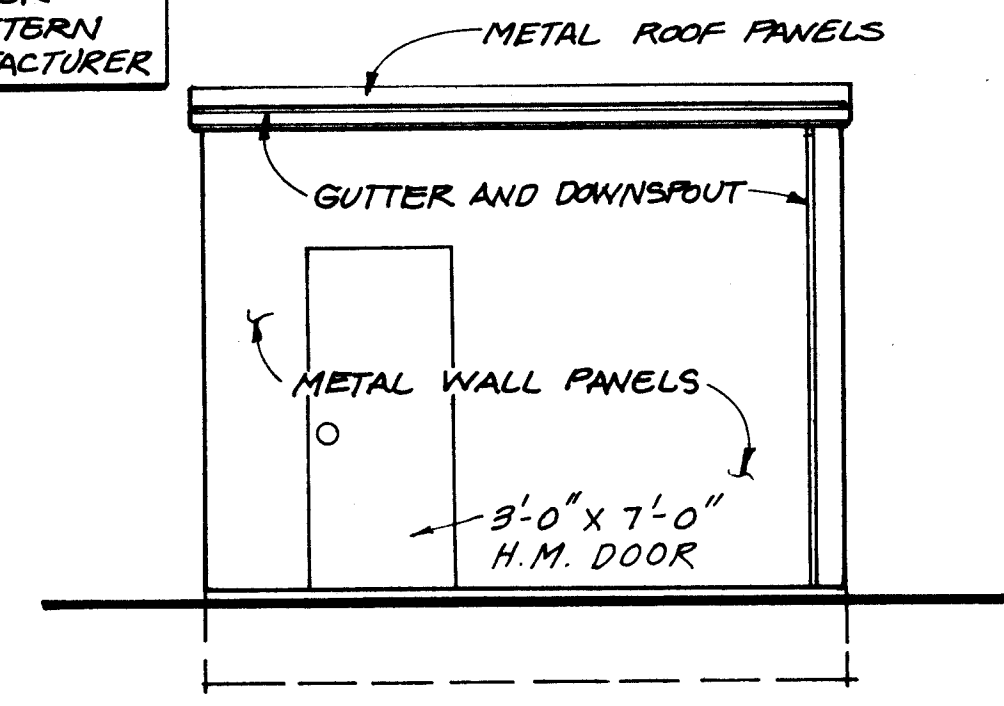
CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: WINTER 1988 WATER SYSTEM REHABILITATION  
DURANES NO. 6 DEMOLITION & GRADING, SITE PLAN  
SCHEDULE C

| APPROVALS    | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|--------------|----------|------|-----------|----------|------|
| D.R.C. Chair |          |      |           |          |      |
| Trans. Dev   |          |      |           |          |      |
| Utility Dev  |          |      |           |          |      |

|             |     |         |      |       |    |    |    |
|-------------|-----|---------|------|-------|----|----|----|
| DRAWING NO. | C-4 | MAP NO. | H-12 | SHEET | 45 | OF | 68 |
|-------------|-----|---------|------|-------|----|----|----|

[illegible][illegible][illegible]

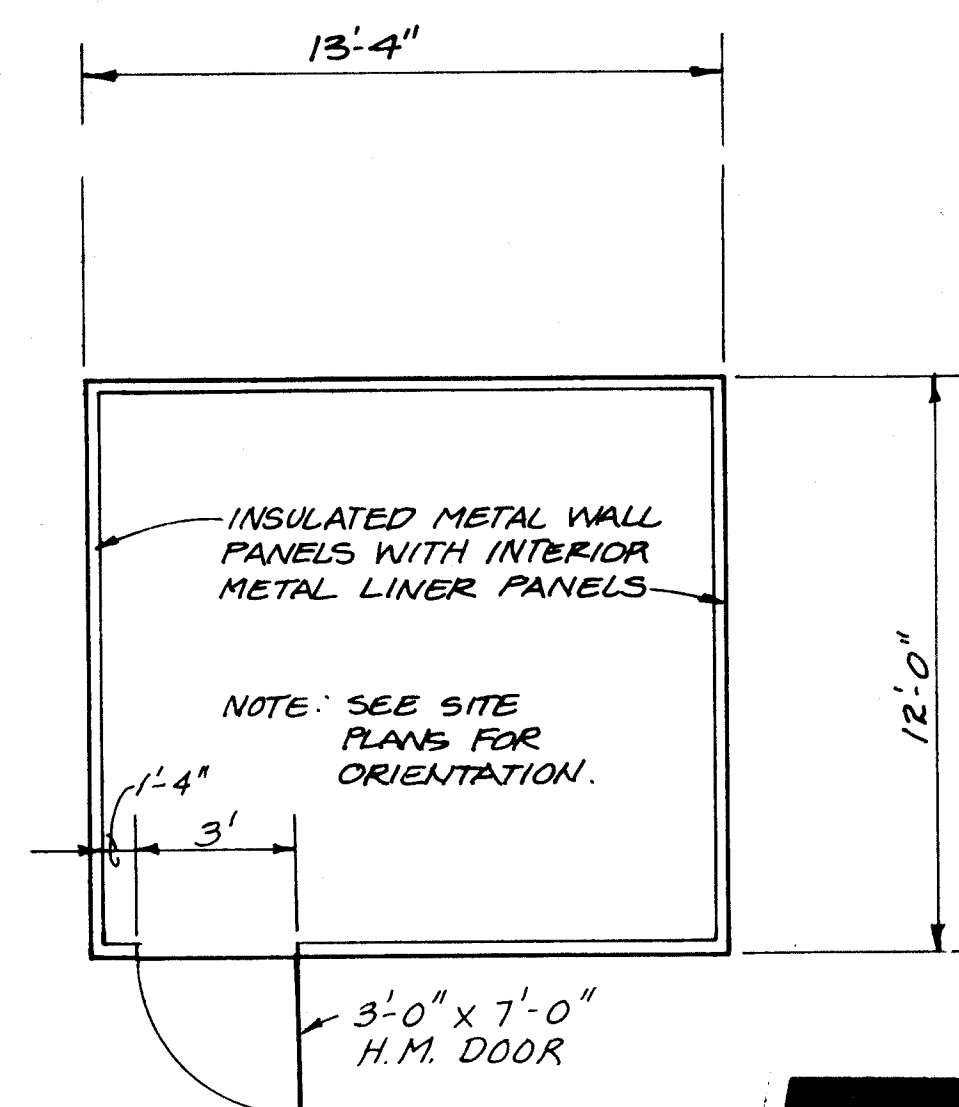


SIDE ELEVATION  
1/4" = 1'-0" ELECTRICAL BUILDING

NOTE: SEE SPECIFICATIONS FOR  
PRE-ENGINEERED BUILDING  
REQUIREMENTS.  
CONTRACTOR TO PROVIDE  
AND INSTALL SS ANCHOR  
BOLTS, SIZE AND PATTERN  
PER BUILDING MANUFACTURER

SIDE ELEVATION  
1/4" = 1'-0" ELECTRICAL BUILDING

112-1-0 111. 10 B-11  
BUILDINGS



FLOOR PLAN  
1/4" = 1'-0" ELECTRICAL BUILDING

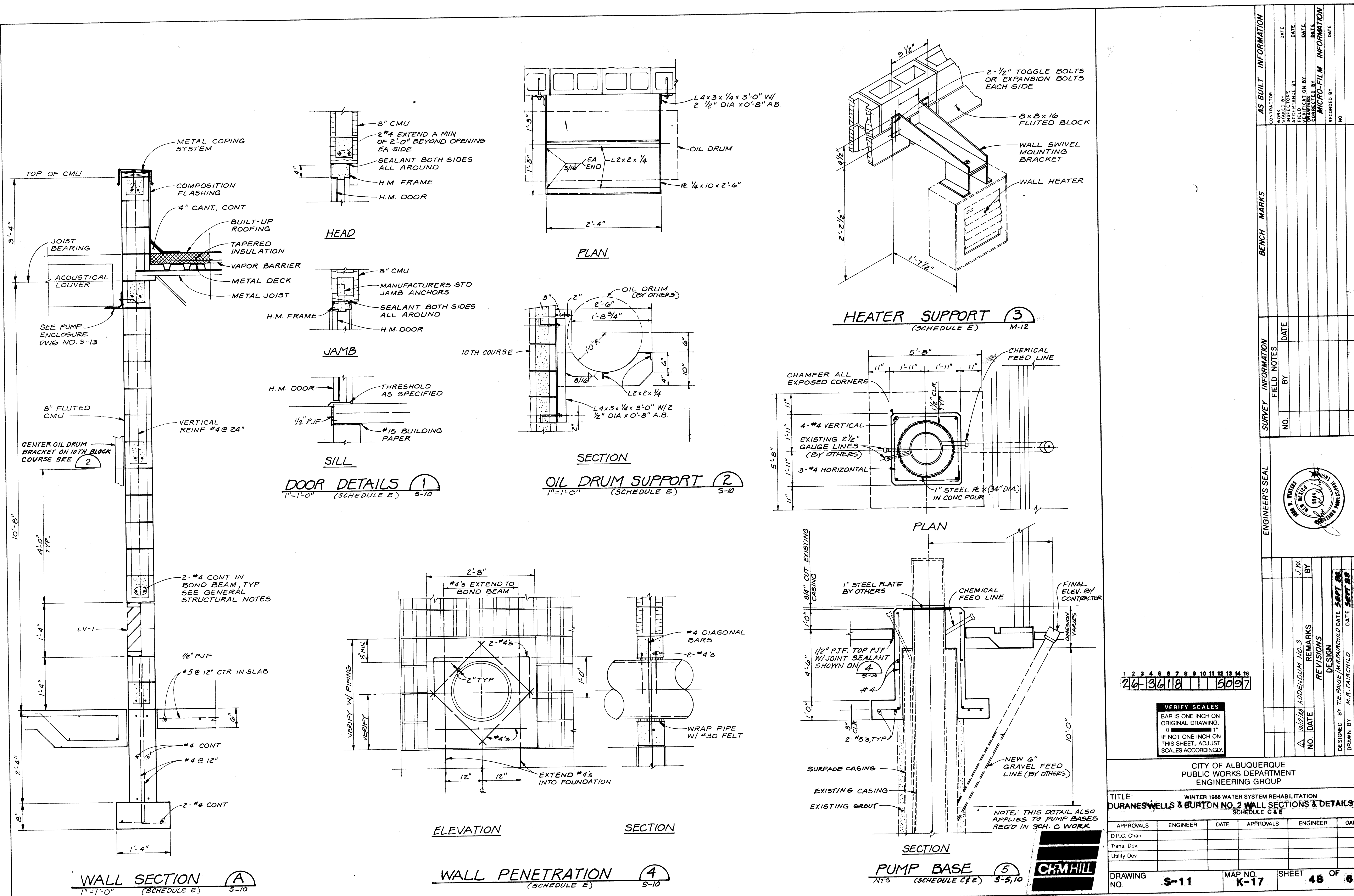
PUMP BUILDING

N.T.S. PUMP BUILDING

1/4 - 1 = 0

1/4 - 1/6 ELBOLICAL BUILDINGS

|                                                                                                                                         |          |                  |           |                              |      |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------|------------------|-----------|------------------------------|------|--|
| <p align="center"><b>CITY OF ALBUQUERQUE<br/>PUBLIC WORKS DEPARTMENT<br/>ENGINEERING GROUP</b></p>                                      |          |                  |           |                              |      |  |
| <p><b>TITLE:</b>                      WINTER 1989 WATER SYSTEM REHABILITATION<br/>METAL BUILDING PLAN &amp; SECTIONS<br/>SCHEDULE C</p> |          |                  |           |                              |      |  |
| APPROVALS                                                                                                                               | ENGINEER | DATE             | APPROVALS | ENGINEER                     | DATE |  |
| D.R.C. Chair                                                                                                                            |          |                  |           |                              |      |  |
| Trans. Dev.                                                                                                                             |          |                  |           |                              |      |  |
| Utility Dev.                                                                                                                            |          |                  |           |                              |      |  |
| DRAWING NO. <b>S-5</b>                                                                                                                  |          | MAP NO. <b>C</b> |           | SHEET <b>47</b> OF <b>68</b> |      |  |



| AS BUILT INFORMATION |      |    |      |
|----------------------|------|----|------|
| CONTRACTOR           | DATE | BY | DATE |
| DESIGNED BY          | DATE | BY | DATE |
| CHECKED BY           | DATE | BY | DATE |
| APPROVED BY          | DATE | BY | DATE |
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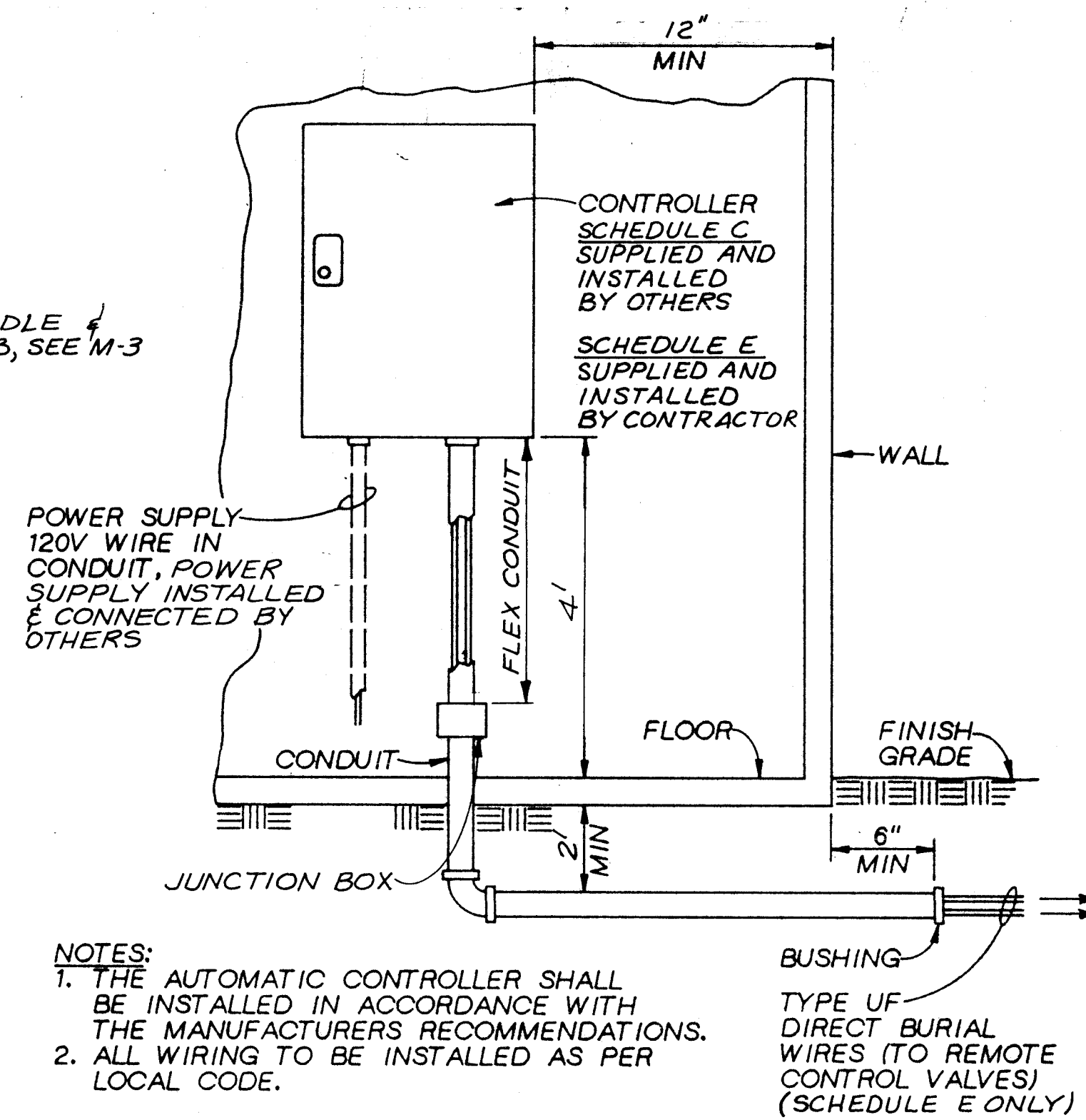
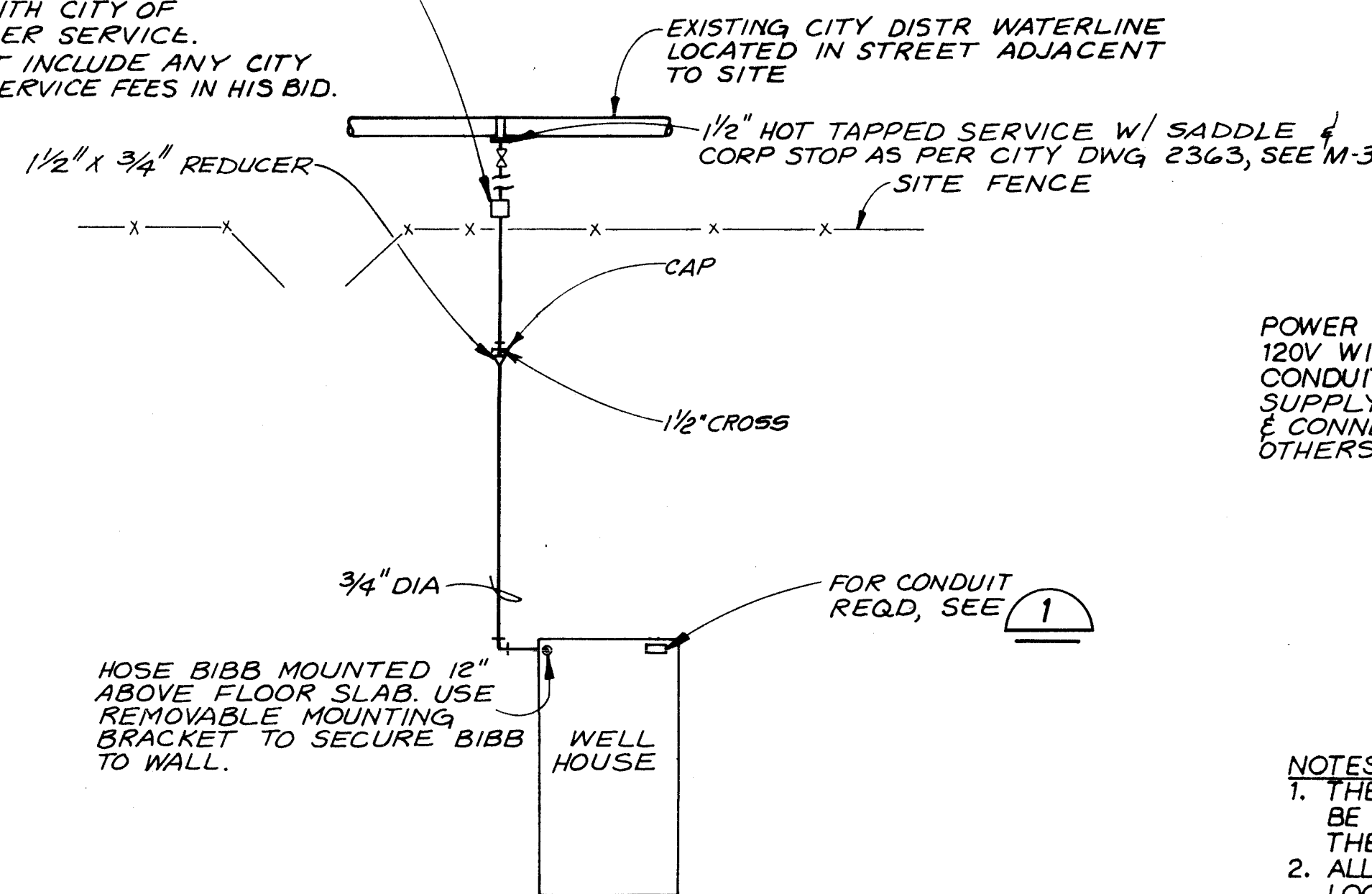
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VERIFY SCALES  
BAR IS ONE INCH ON  
ORIGINAL DRAWING.  
IF NOT ONE INCH ON  
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SCALES ACCORDINGLY.

|                                                                                                                          |          |         |           |
|--------------------------------------------------------------------------------------------------------------------------|----------|---------|-----------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING GROUP                                                      |          |         |           |
| TITLE: WINTER 1988 WATER SYSTEM REHABILITATION<br>DURANES WELLS & BURTON NO. 2 WALL SECTIONS & DETAILS<br>SCHEDULE C & E |          |         |           |
| APPROVALS                                                                                                                | ENGINEER | DATE    | APPROVALS |
| D.R.C. Chair                                                                                                             |          |         | ENGINEER  |
| Trans. Dev.                                                                                                              |          |         | DATE      |
| Utility Dev.                                                                                                             |          |         |           |
| DRAWING NO.                                                                                                              | S-11     | MAP NO. | K-17      |
|                                                                                                                          |          | SHEET   | 48 OF 68  |



1/2" POS DISPL WATER METER WITH METER BOX INSTALLED AS PER CITY OF ALBUQUERQUE STD DWG 2363, SEE M-3 CONTRACTOR TO MAKE ALL ARRANGEMENTS FOR WATER SERVICE WITH CITY OF ALBUQUERQUE CUSTOMER SERVICE. CONTRACTOR SHALL NOT INCLUDE ANY CITY CHARGES FOR METER SERVICE FEES IN HIS BID.



NOTES:  
1. THE AUTOMATIC CONTROLLER SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.  
2. ALL WIRING TO BE INSTALLED AS PER LOCAL CODE.  
TYPE UF DIRECT BURIAL WIRES (TO REMOTE CONTROL VALVES) (SCHEDULE E ONLY)

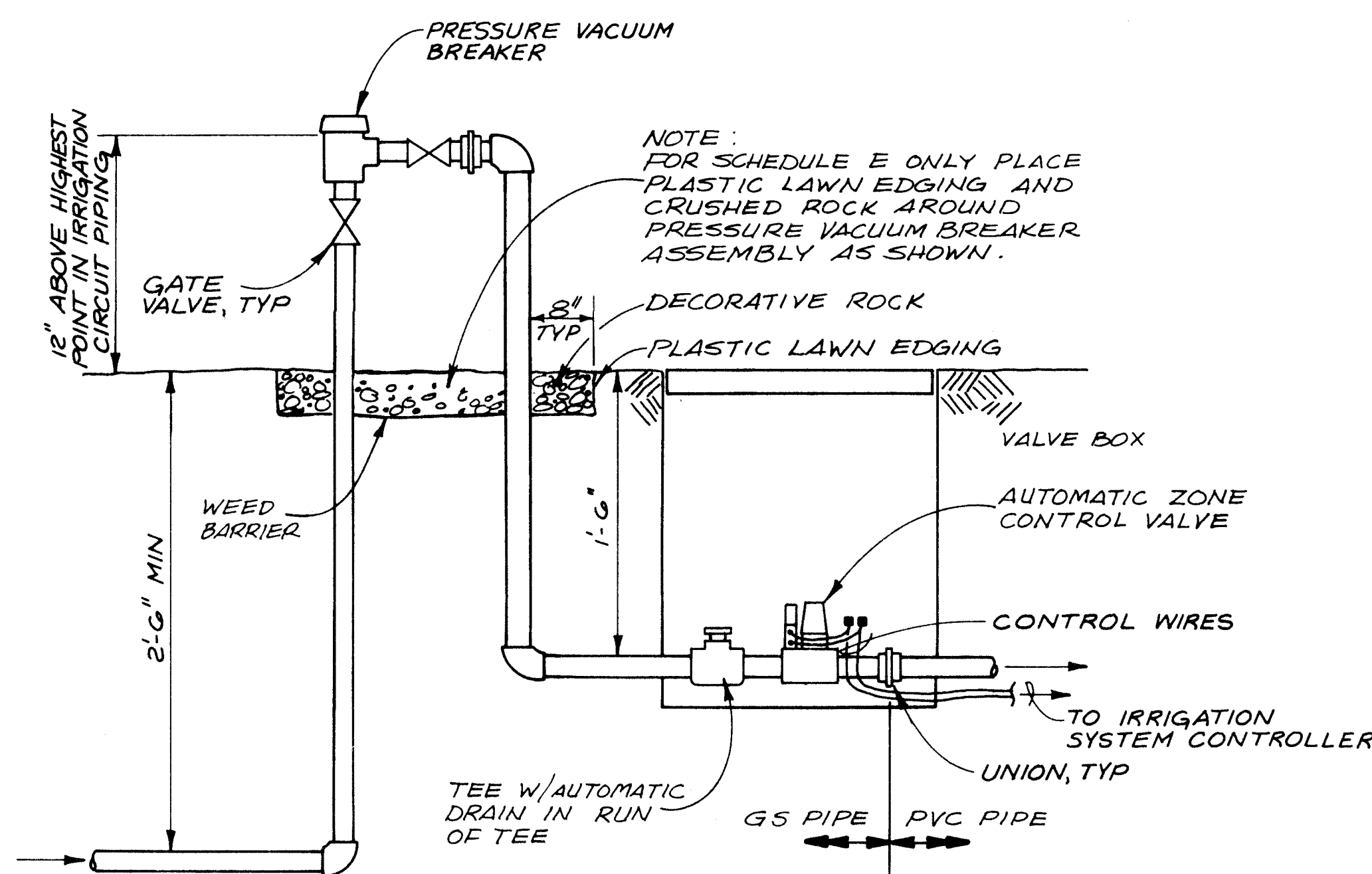
### AUTOMATIC CONTROLLER CONDUIT INSTALLATION

NTS (SCHEDULE C & E) C-9

NOTES:  
1. SEE INDIVIDUAL WELL FACILITY SITE PLANS FOR LOCATION OF WATER METERS.  
2. ELECTRICAL/INSTRUMENTATION BUILDING AND TRANSFORMER NOT SHOWN.

### WATER SERVICE SCHEMATIC TYPICAL FOR DURANES WELL SITES 3, 4 & 6

NTS (SCHEDULE C)



### ZONE CONTROL VALVE AND VACUUM BREAKER DETAIL

NTS (SCHEDULE E) C-9

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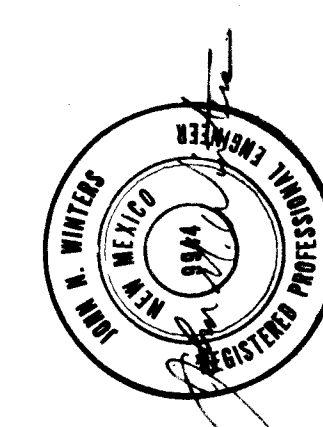
CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

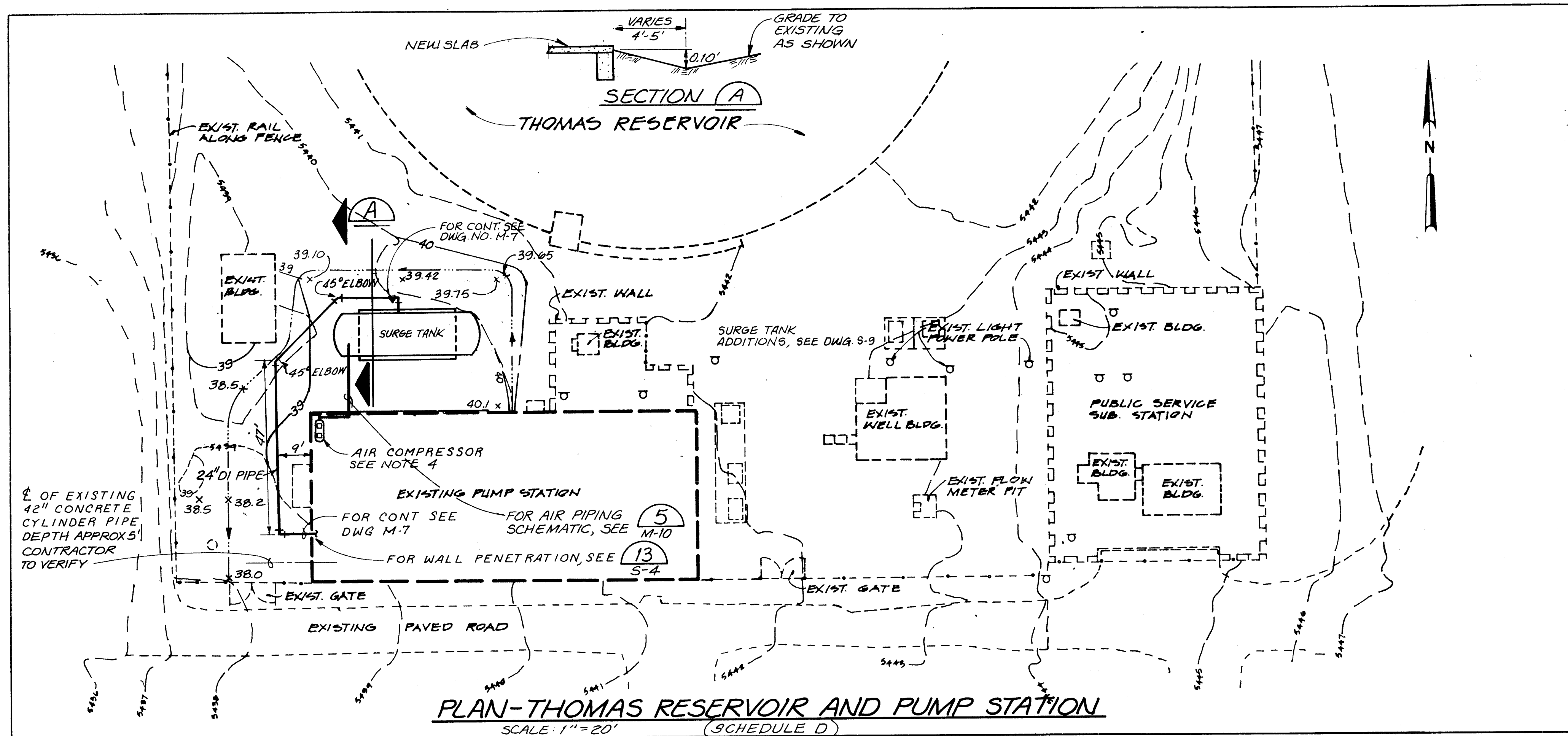
TITLE: WINTER 1988 WATER SYSTEM REHABILITATION  
IRRIGATION SYSTEM DETAILS  
SCHEDULE C & E

| APPROVALS    | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|--------------|----------|------|-----------|----------|------|
| D.P.C. Chair |          |      |           |          |      |
| Trans. Dev.  |          |      |           |          |      |
| Utility Dev. |          |      |           |          |      |

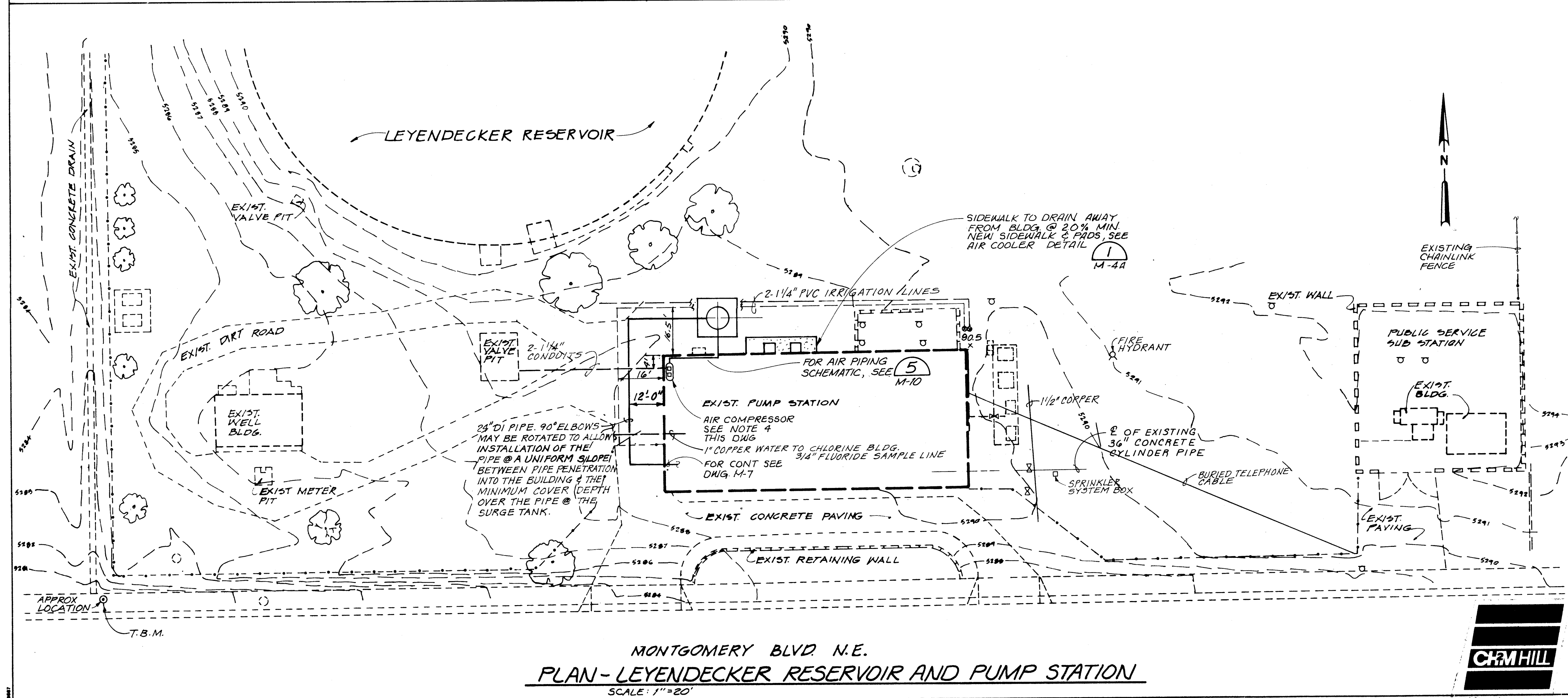
DRAWING NO. M-5 MAP NO. SHEET 50 OF 68

| AS BUILT INFORMATION |      | BENCH MARKS |      | SURVEY INFORMATION |      | ENGINEER'S SEAL |      |
|----------------------|------|-------------|------|--------------------|------|-----------------|------|
| CONTRACTOR           | DATE | NO.         | DATE | NO.                | DATE | NO.             | DATE |
| WORK BY              | DATE | NO.         | DATE | NO.                | DATE | NO.             | DATE |
| REVISIONS            | DATE | NO.         | DATE | NO.                | DATE | NO.             | DATE |
| DESIGNED BY          | DATE | NO.         | DATE | NO.                | DATE | NO.             | DATE |
| DRAWN BY             | DATE | NO.         | DATE | NO.                | DATE | NO.             | DATE |
| CHECKED BY           | DATE | NO.         | DATE | NO.                | DATE | NO.             | DATE |





- NOTES:**
- EXISTING FEATURES ARE SHOWN AS DASHED LINES AND NEW CONSTRUCTION IS SHOWN AS SOLID LINES ON THE SITE PLAN.
  - LOCATIONS OF UTILITIES AND FACILITIES SHOWN ARE BASED ON DESIGN DRAWINGS. CONTRACTOR SHALL VERIFY ALL LOCATIONS AND ELEVATIONS AND NOTIFY ENGINEER IN WRITING AS SPECIFIED IN THE SPECIFICATIONS OF ANY DIFFERENCES OR DISCREPANCIES ON THE DRAWINGS.
  - ALL NEW BURIED PIPE SHALL BE MECHANICAL JOINT DUCTILE IRON WITH MEG-A-LUG THRUST RESTRAINT.
  - AIR COMPRESSOR LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY EXACT LOCATION WITH OWNER/ENGINEER IN ADVANCE OF CONSTRUCTION.
  - ALL BURIED DUCTILE IRON PIPE JOINTS SHALL BE BONDED. SEE M-2
  - CONTRACTOR SHALL RESTORE AND/OR REPLACE ALL PAVEMENT CURBS, SIDEWALKS, ROCK SURFACING, LANDSCAPING, GRASS AREAS AND OTHER SITE FEATURES DAMAGED EITHER DIRECTLY OR INDIRECTLY BY CONTRACTOR CONSTRUCTION OPERATIONS.
  - PORTIONS OF THE CONCRETE DRIVEWAY, ADJACENT TO THE PUMP STATION'S SOUTHWEST CORNER, SHALL BE DEMOLISHED TO ALLOW INSTALLATION OF THE 24" DIAMETER DUCTILE IRON PIPE. THE CONTRACTOR SHALL MAKE NEAT, STRAIGHT CUTS IN THE EXISTING DRIVEWAY DURING DEMOLITION AND SHALL REPLACE THE SECTION OF DRIVEWAY REMOVED WITH CONCRETE SLAB EQUAL IN ALL DIMENSIONS, REINFORCEMENT AND QUALITY TO THE EXISTING.



**NOTES:**

- EXISTING FEATURES ARE SHOWN AS DASHED LINES AND NEW CONSTRUCTION IS SHOWN AS SOLID LINES ON THE SITE PLAN.
- LOCATIONS OF UTILITIES AND FACILITIES SHOWN ARE BASED ON DESIGN DRAWINGS. CONTRACTOR SHALL VERIFY ALL LOCATIONS AND ELEVATIONS AND NOTIFY ENGINEER IN WRITING AS SPECIFIED IN THE SPECIFICATIONS OF ANY DIFFERENCES OR DISCREPANCIES ON THE DRAWINGS.
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**ENGINEER'S SEAL**

**VERIFY SCALES**  
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

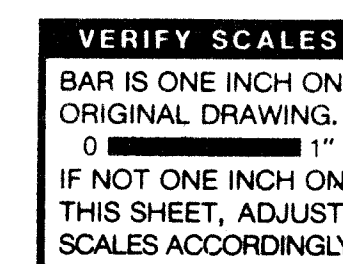
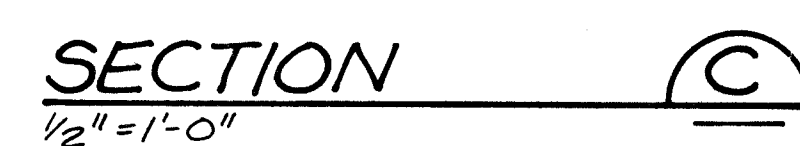
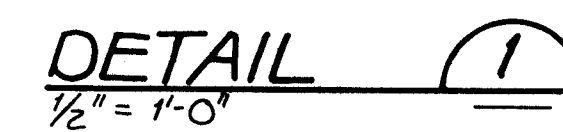
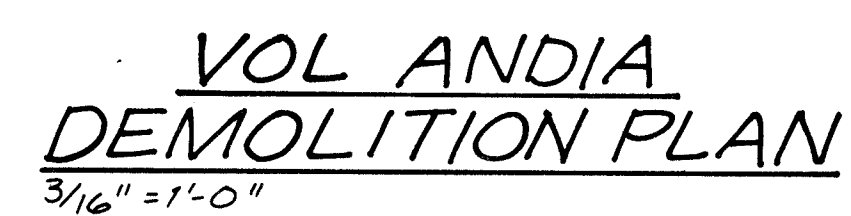
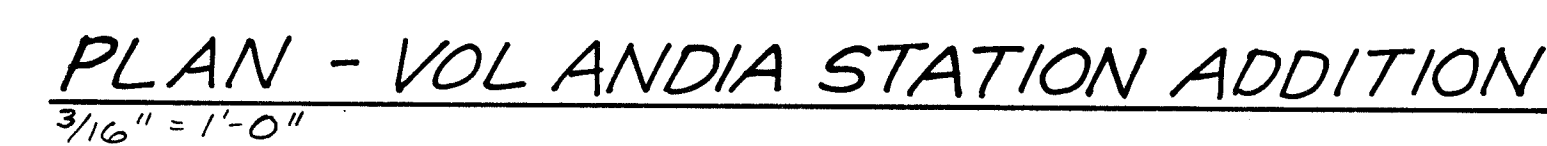
**CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP**

**TITLE:** WINTER 1988 WATER SYSTEM REHABILITATION  
LEYENDECKER & THOMAS SITE & GRADING PLAN  
SCHEDULE D

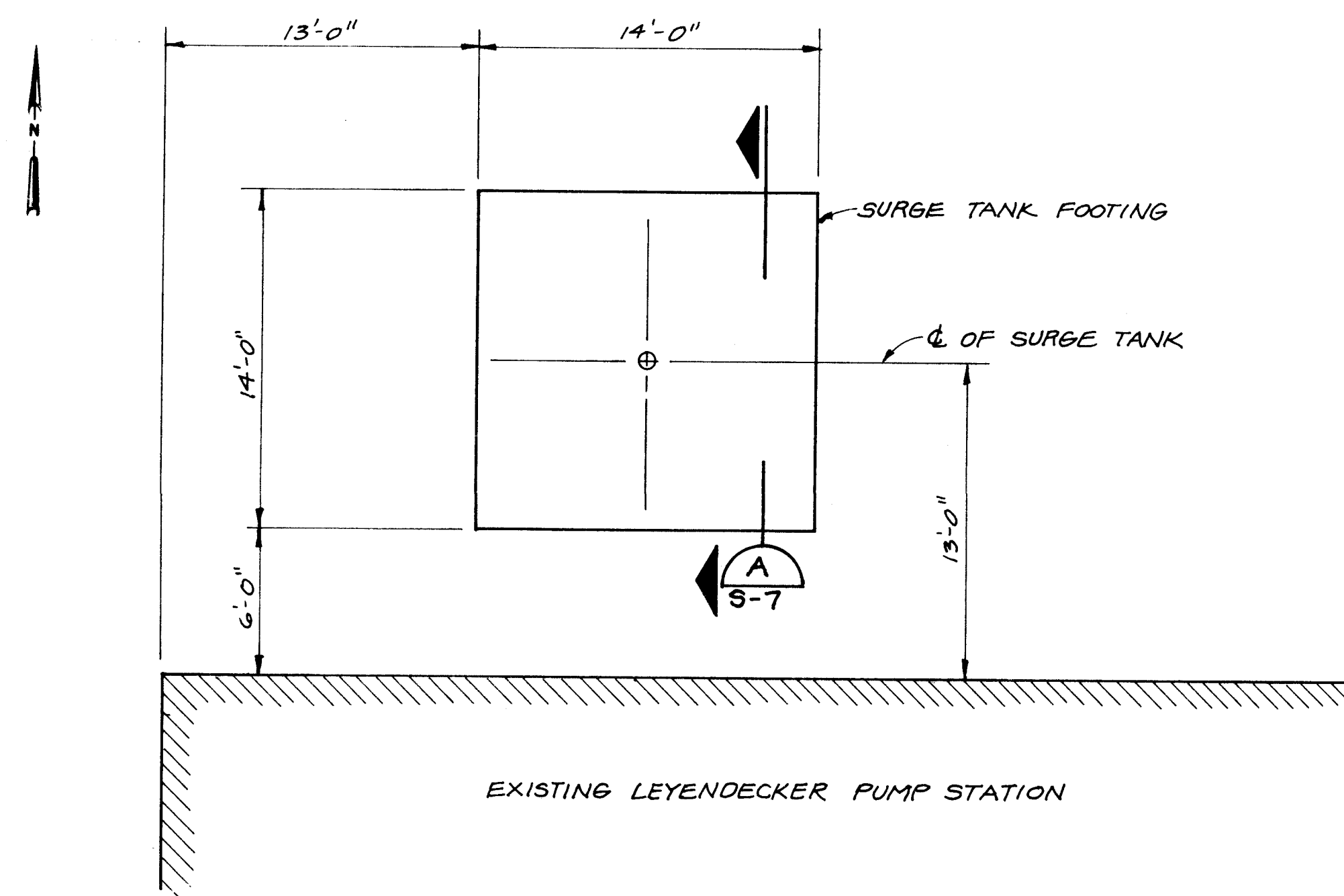
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| D.R.C. Chair |          |      |           |          |      |
| Trans. Dev.  |          |      |           |          |      |
| Utility Dev. |          |      |           |          |      |

**DRAWING NO. C-6** **MAP NO. F-18** **SHEET 51 OF 68**





|                                                                                                          |  |                                                  |  |                         |  |                                                    |  |
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| ENGINEER'S SEAL<br> |  | SURVEY INFORMATION<br>NO. BY DATE<br>FIELD NOTES |  | BENCH MARKS<br>NO. DATE |  | AS BUILT INFORMATION<br>NO. DATE<br>RECORD BY DATE |  |
| ENGINEER'S SEAL<br> |  | SURVEY INFORMATION<br>NO. BY DATE<br>FIELD NOTES |  | BENCH MARKS<br>NO. DATE |  | AS BUILT INFORMATION<br>NO. DATE<br>RECORD BY DATE |  |



**PLAN - LEYENDECKER SURGE TANK**  
 3/16" = 1'-0"

NOTE: SEE SECTION A ON DWG. S-9 FOR CONCRETE SIDEWALK REQ'D. AROUND SURGE TANK.

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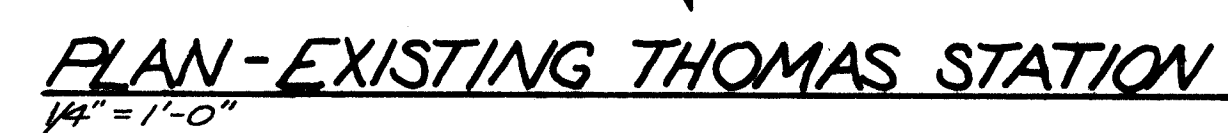
CITY OF ALBUQUERQUE  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING GROUP

TITLE: WINTER 1988 WATER SYSTEM REHABILITATION  
 LEYENDECKER PLAN & WALL SECTIONS  
 SCHEDULE D

| APPROVALS   | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|-------------|----------|------|-----------|----------|------|
| DRC Chair   |          |      |           |          |      |
| Trans. Dev  |          |      |           |          |      |
| Utility Dev |          |      |           |          |      |

DRAWING NO. **S-8** MAP NO. **F-18** SHEET **54** OF **68**



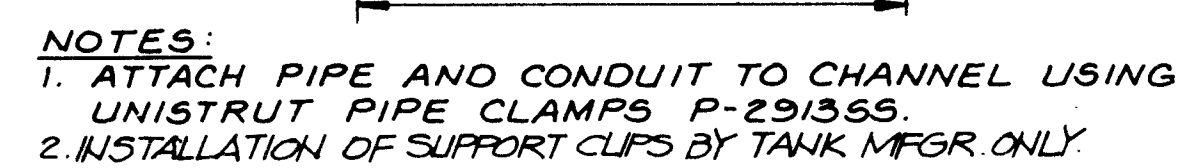


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| <p align="center"><b>CITY OF ALBUQUERQUE</b><br/> <b>PUBLIC WORKS DEPARTMENT</b><br/> <b>ENGINEERING GROUP</b></p>                                                                      |          |      |           |          |      |
| <p><b>TITLE:                      WINTER 1988 WATER SYSTEM REHABILITATION</b><br/> <b>THOMAS PLAN, SECTIONS &amp; DETAILS</b><br/> <b>SCHEDULE D</b></p>                                |          |      |           |          |      |
| APPROVALS                                                                                                                                                                               | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
| D.R.C. Chair                                                                                                                                                                            |          |      |           |          |      |
| Trans. Dev.                                                                                                                                                                             |          |      |           |          |      |
| Utility Dev.                                                                                                                                                                            |          |      |           |          |      |
| <p><b>DRAWING NO.                      S-9                      MAP NO.                      F-20                      SHEET                      55 OF                      66</b></p> |          |      |           |          |      |

| ENGINEER'S SEAL |  |  |  |  |  | SURVEY INFORMATION     |         | BENCH MARKS |  | AS BUILT INFORMATION   |      |
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|                 |  |  |  |  |  | NO.                    | BY DATE |             |  | CONTRACT NO.           | DATE |
|                 |  |  |  |  |  | REMARKS                |         |             |  | WORKING PLAN           |      |
|                 |  |  |  |  |  | DESIGNED BY T.E. PAIGE |         |             |  | APPROVED BY            |      |
|                 |  |  |  |  |  | DRAWN BY J. DICK       |         |             |  | CHECKED BY             |      |
|                 |  |  |  |  |  | DATE SEP 28 1961       |         |             |  | DATE                   |      |
|                 |  |  |  |  |  | FIELD NOTES            |         |             |  | MICRO FILM INFORMATION |      |
|                 |  |  |  |  |  |                        |         |             |  | RECORDED BY            |      |
|                 |  |  |  |  |  |                        |         |             |  | DATE                   |      |



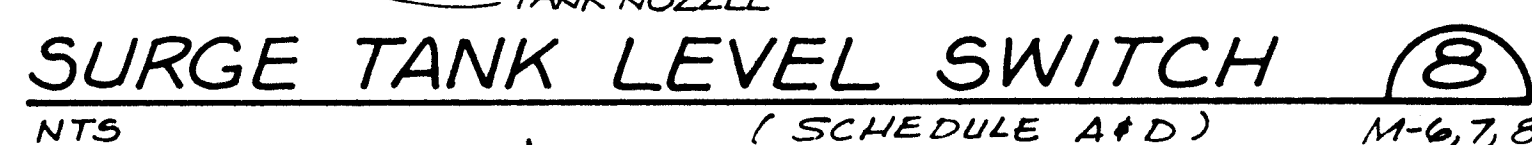




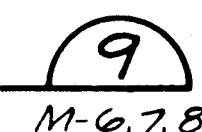
PLAN  
PIPE SUPPORT BRACKET (5)  
NTS (SCHEDULE D) M-7.8



INLET BELL SUPPORT (6)  
NTS (SCHEDULE D) M-7,8



NOTE: SURGE TANK MANUFACTURER SHALL DESIGN AND PROVIDE — A BRACKET WHICH SUPPORTS BRACES AND HOLDS THE AIR VALVE AND ATTACHED PIPE, TYPICAL FOR ALL SURGE TANKS. THE BRACKET SHALL BE ATTACHED TO THE SURGE TANK TOP.

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**VERIFY SCALES**  
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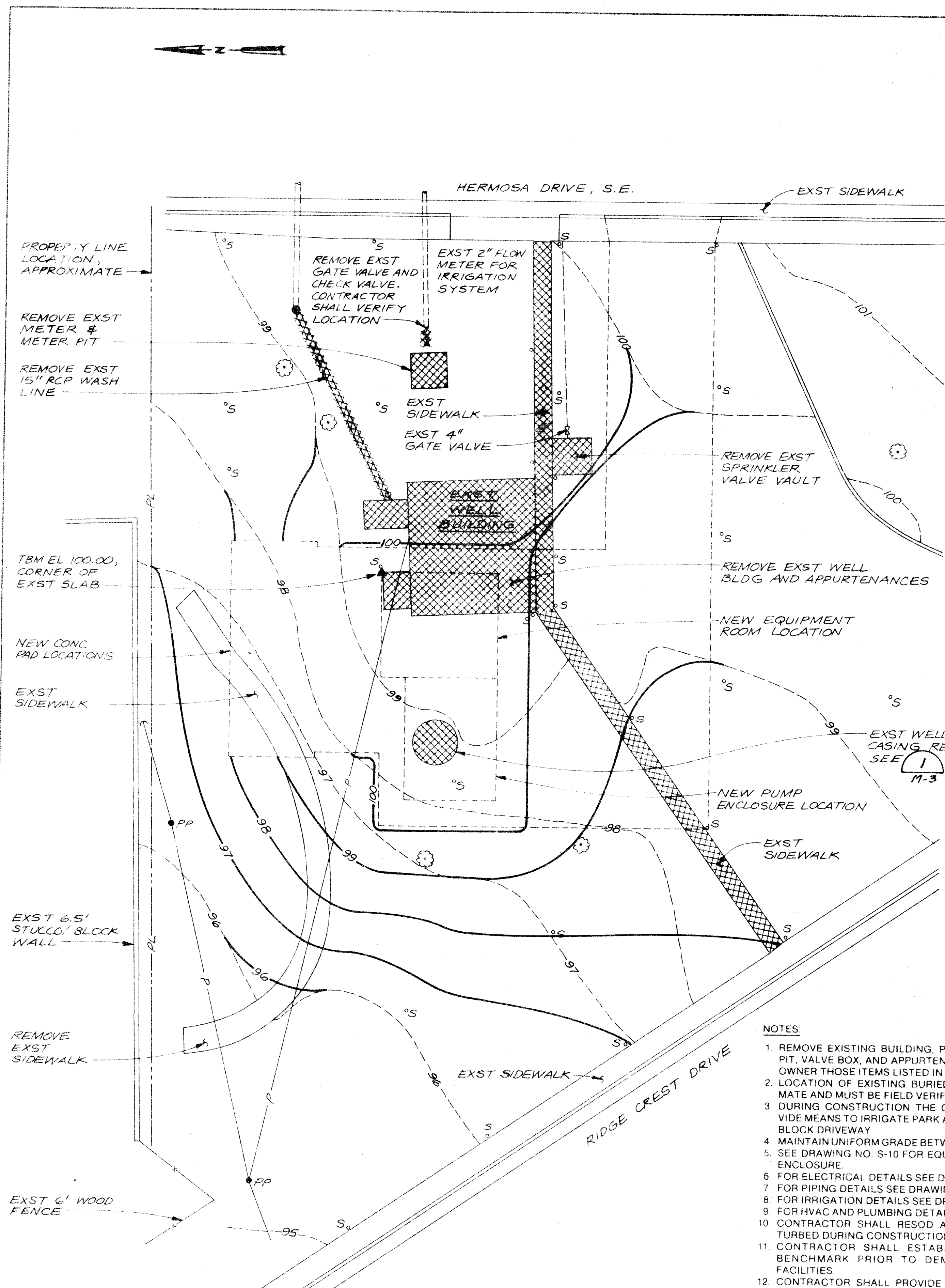
CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: WINTER 1988 WATER SYSTEM REHABILITATION  
SURGE TANK DETAILS  
SCHEDULE A & D

| SCHEDULE 100 |          |      |           |          |      |
|--------------|----------|------|-----------|----------|------|
| APPROVALS    | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
| DRC Chair    |          |      |           |          |      |
| Trans. Dev   |          |      |           |          |      |
| Utility Dev  |          |      |           |          |      |
|              |          |      |           |          |      |

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|-------------|------------|---------|---|-------|-----------|----|-----------|
| DRAWING NO. | <b>M-9</b> | MAP NO. | - | SHEET | <b>58</b> | OF | <b>68</b> |
|-------------|------------|---------|---|-------|-----------|----|-----------|

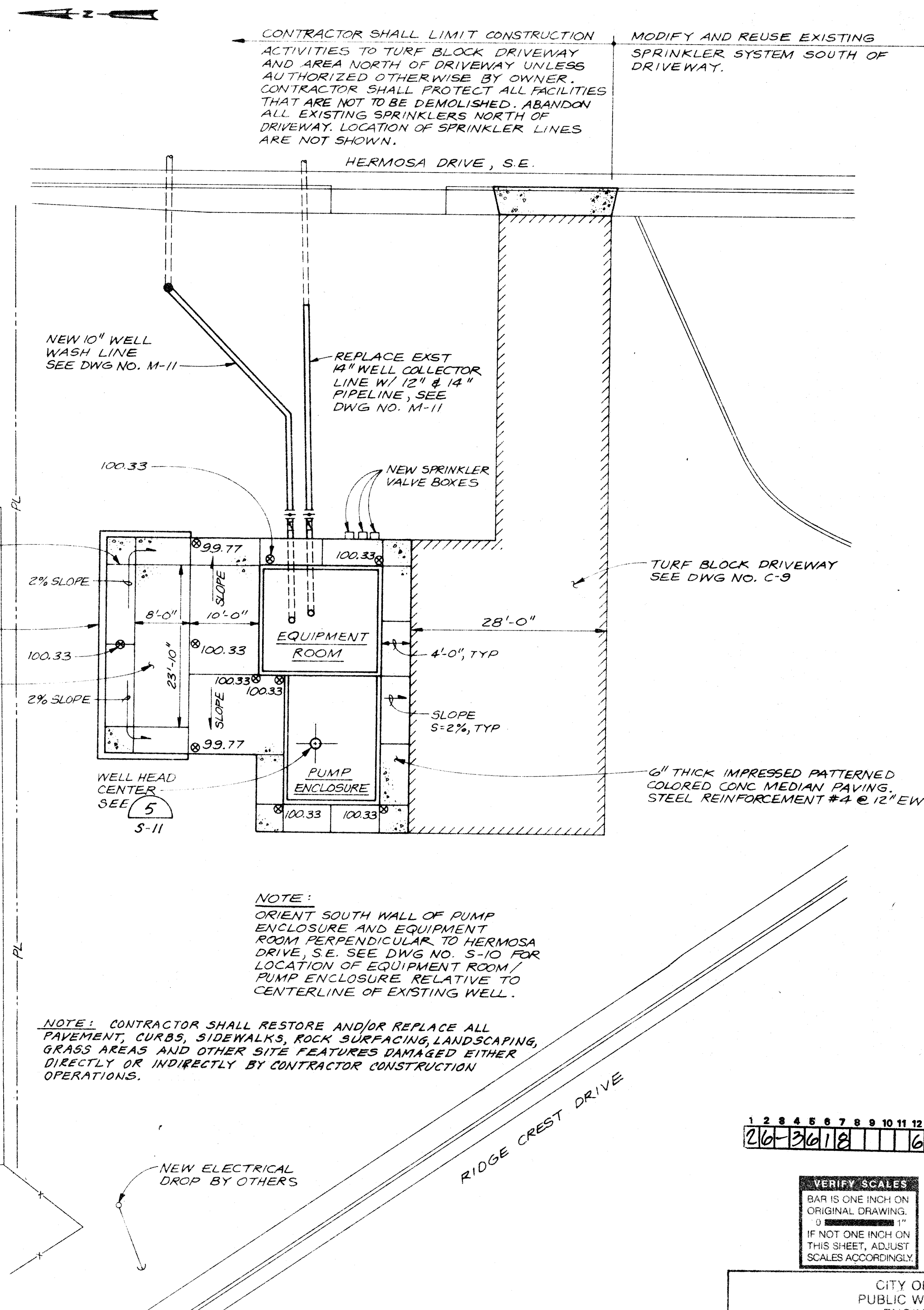




DEMOLITION AND SITE GRADING PLAN

- NOTES
1. REMOVE EXISTING BUILDING, PIPING, SIDEWALKS, METER PIT, VALVE BOX, AND APPURTENANCES. SALVAGE FOR THE OWNER THOSE ITEMS LISTED IN THE SPECIFICATIONS.
  2. LOCATION OF EXISTING BURIED UTILITIES ARE APPROXIMATE AND MUST BE FIELD VERIFIED BY CONTRACTOR.
  3. DURING CONSTRUCTION THE CONTRACTOR SHALL PROVIDE MEANS TO IRRIGATE PARK AREAS SOUTH OF THE TURF BLOCK DRIVEWAY.
  4. MAINTAIN UNIFORM GRADE BETWEEN NEW CONTOUR LINES.
  5. SEE DRAWING NO. S-10 FOR EQUIPMENT ROOM AND PUMP ENCLOSURE.
  6. FOR ELECTRICAL DETAILS SEE DRAWING NO. E-40.
  7. FOR PIPING DETAILS SEE DRAWING NO. M-11.
  8. FOR IRRIGATION DETAILS SEE DRAWING C-9.
  9. FOR HVAC AND PLUMBING DETAILS SEE DRAWING NO. M-12.
  10. CONTRACTOR SHALL RESOD ALL GRASSED AREAS DISTURBED DURING CONSTRUCTION.
  11. CONTRACTOR SHALL ESTABLISH A CONSTRUCTION BENCHMARK PRIOR TO DEMOLITION OF EXISTING FACILITIES.
  12. CONTRACTOR SHALL PROVIDE A TEMPORARY SECURITY FENCE WITH LOCKABLE GATES AROUND THE CONSTRUCTION SITE.

BURTON WELL NO. 2  
1" = 10'



NEW SITE PLAN

NOTE: CONTRACTOR SHALL RESTORE AND/OR REPLACE ALL PAVEMENT, CURBS, SIDEWALKS, ROCK SURFACING, LANDSCAPING, GRASS AREAS AND OTHER SITE FEATURES DAMAGED EITHER DIRECTLY OR INDIRECTLY BY CONTRACTOR CONSTRUCTION OPERATIONS.

NOTE: ORIENT SOUTH WALL OF PUMP ENCLOSURE AND EQUIPMENT ROOM PERPENDICULAR TO HERMOSA DRIVE, S.E. SEE DWG. NO. S-10 FOR LOCATION OF EQUIPMENT ROOM. PUMP ENCLOSURE RELATIVE TO CENTERLINE OF EXISTING WELL.

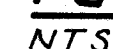
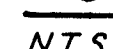
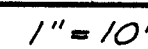
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VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

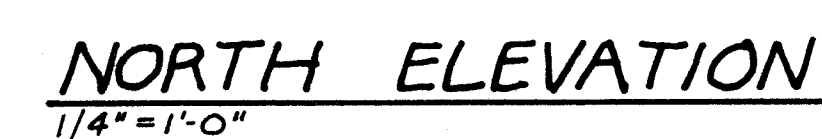
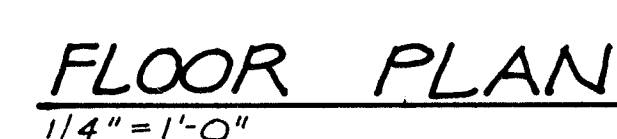
|                                                                                                         |          |         |           |          |          |
|---------------------------------------------------------------------------------------------------------|----------|---------|-----------|----------|----------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING GROUP                                     |          |         |           |          |          |
| TITLE: WINTER 1988 WATER SYSTEM REHABILITATION<br>BURTON WELL NO. 2 SITE AND GRADING PLAN<br>SCHEDULE E |          |         |           |          |          |
| APPROVALS                                                                                               | ENGINEER | DATE    | APPROVALS | ENGINEER | DATE     |
| D.R.C. Chair                                                                                            |          |         |           |          |          |
| Trans. Div.                                                                                             |          |         |           |          |          |
| Utility Div.                                                                                            |          |         |           |          |          |
| DRAWING NO.                                                                                             | C-8      | MAP NO. | K-17      | SHEET    | 60 OF 68 |



|                             |    |                         |    |                    |      |                 |      |
|-----------------------------|----|-------------------------|----|--------------------|------|-----------------|------|
| AS BUILT INFORMATION        |    | BENCH MARKS             |    | SURVEY INFORMATION |      | ENGINEER'S SEAL |      |
| DATE                        | BY | DATE                    | BY | NO.                | DATE | NO.             | DATE |
|                             |    |                         |    |                    |      |                 |      |
| DESIGNED BY: T.E. FAIRCHILD |    | CHECKED BY: G.D. PRINCE |    | DATE               |      | DATE            |      |
| DRAWN BY: M.A. FAIRCHILD    |    | CHECKED BY: G.D. PRINCE |    | DATE               |      | DATE            |      |



|             |     |         |      |       |    |    |    |
|-------------|-----|---------|------|-------|----|----|----|
| DRAWING NO. | C-9 | MAP NO. | K-17 | SHEET | 61 | OF | 62 |
|-------------|-----|---------|------|-------|----|----|----|



|   |   |   |   |   |   |   |   |   |    |    |    |    |    |   |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 1 |
| 2 | 6 | - | 3 | 6 | 1 | 8 |   |   |    |    | 6  | 4  | 9  | - |

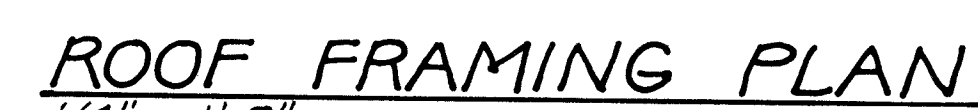
**VERIFY SCALES**  
 BAR IS ONE INCH OF  
 ORIGINAL DRAWING  
 0 1'  
 IF NOT ONE INCH OF  
 THIS SHEET, ADJUST  
 SCALES ACCORDING

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

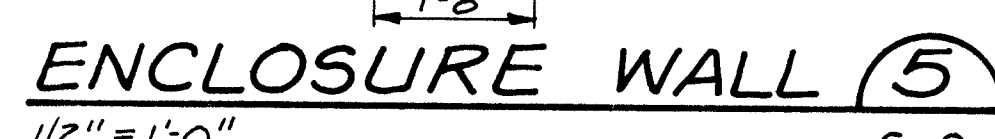
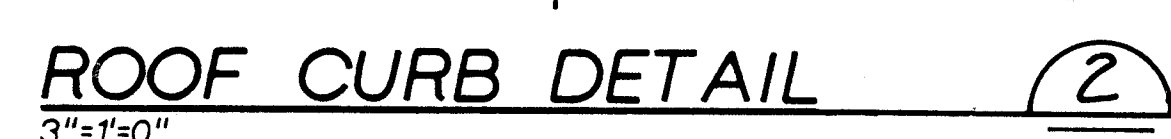
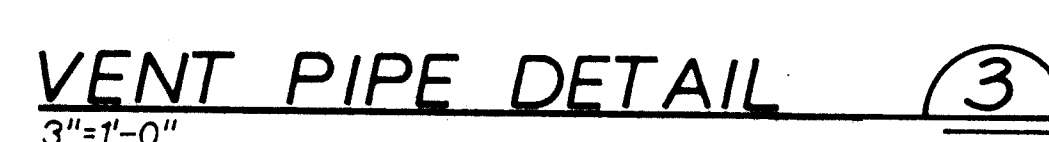
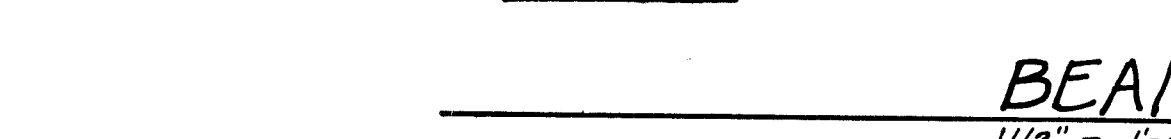
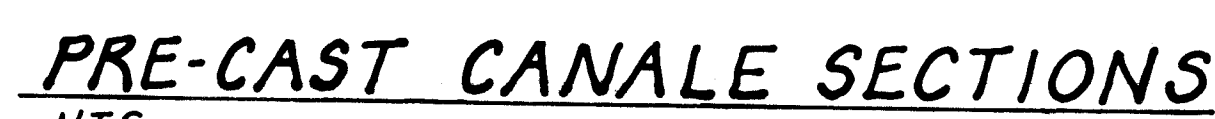
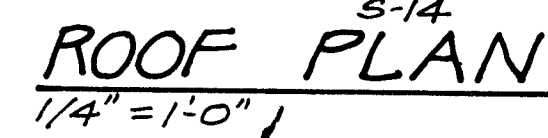
TITLE: WINTER 1988 WATER SYSTEM REHABILITATION  
BURTON NO. 2 FLOOR PLAN, FOUNDATION PLAN & ELEVATIONS  
SCHEDULE E

| APPROVALS    | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|--------------|----------|------|-----------|----------|------|
| D.R. Chair   |          |      |           |          |      |
| Trans. Dev.  |          |      |           |          |      |
| Utility Dev. |          |      |           |          |      |

|             |      |         |      |       |    |    |    |
|-------------|------|---------|------|-------|----|----|----|
| DRAWING NO. | S-10 | MAP NO. | K-17 | SHEET | 62 | OF | 68 |
|-------------|------|---------|------|-------|----|----|----|



1. DESIGN LOADS  
SNOW = 30 PSF  
MONORAIL BEAM = 1 TON  
SEISMIC - UBC ZONE 2  
WIND = UBC 75 MPH BASIC SPEED EXPOSURE C  
2. WELD DECKING SHALL BE 1/2", 22 GA., GALV.  
STEEL ROUGHENED, ATTACH TO SUPPORTS  
WITH 4" VERTICAL EFFECTIVE MINIMUM RIDDLE  
WELDS PER 30 INCH WIDE PANEL.  
BOTTOM PUNCH SIDE SEAMS AT 24" OC.  
MIN. DECK I = .180 in. 4/ft, S = .203 in. 3/ft.



**VERIFY SCALES**  
BAR IS ONE INCH ON  
ORIGINAL DRAWING.  
0  1"  
IF NOT ONE INCH ON  
THIS SHEET, ADJUST  
SCALES ACCORDINGLY

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PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

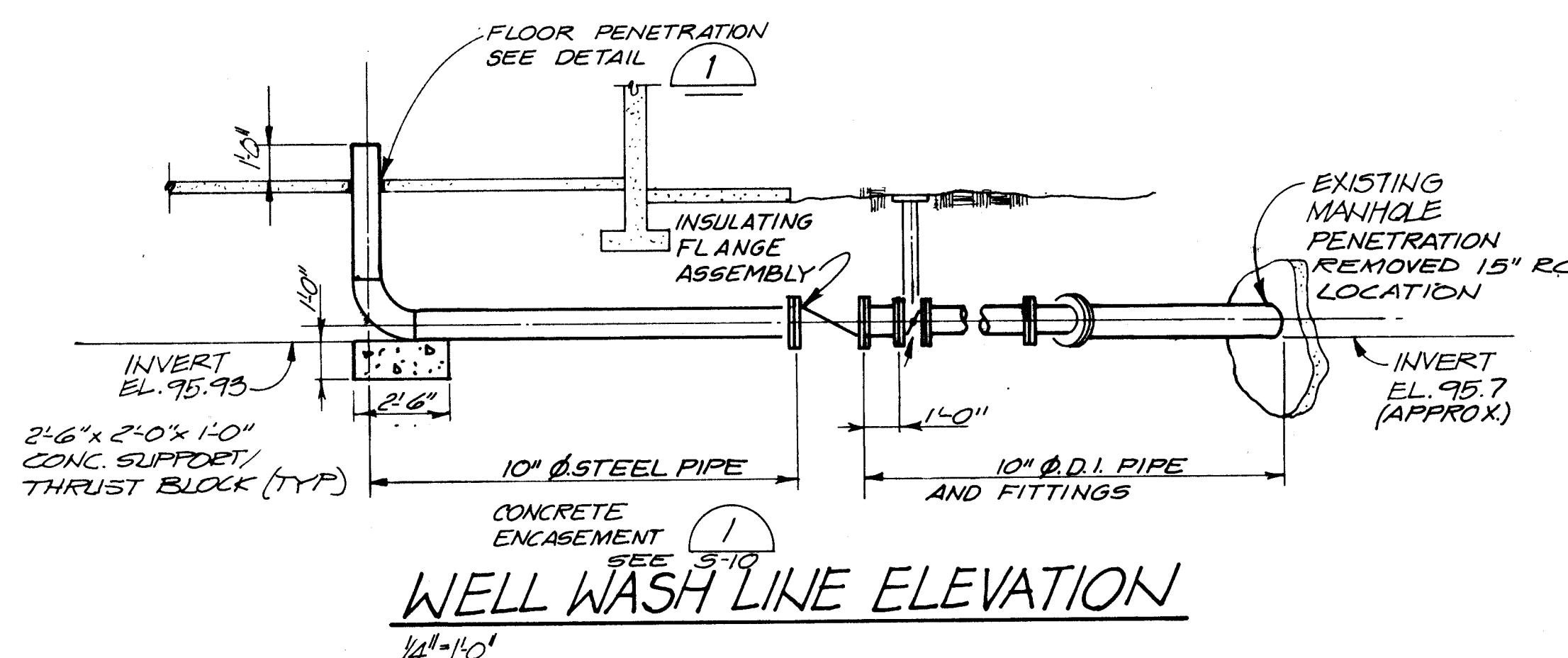
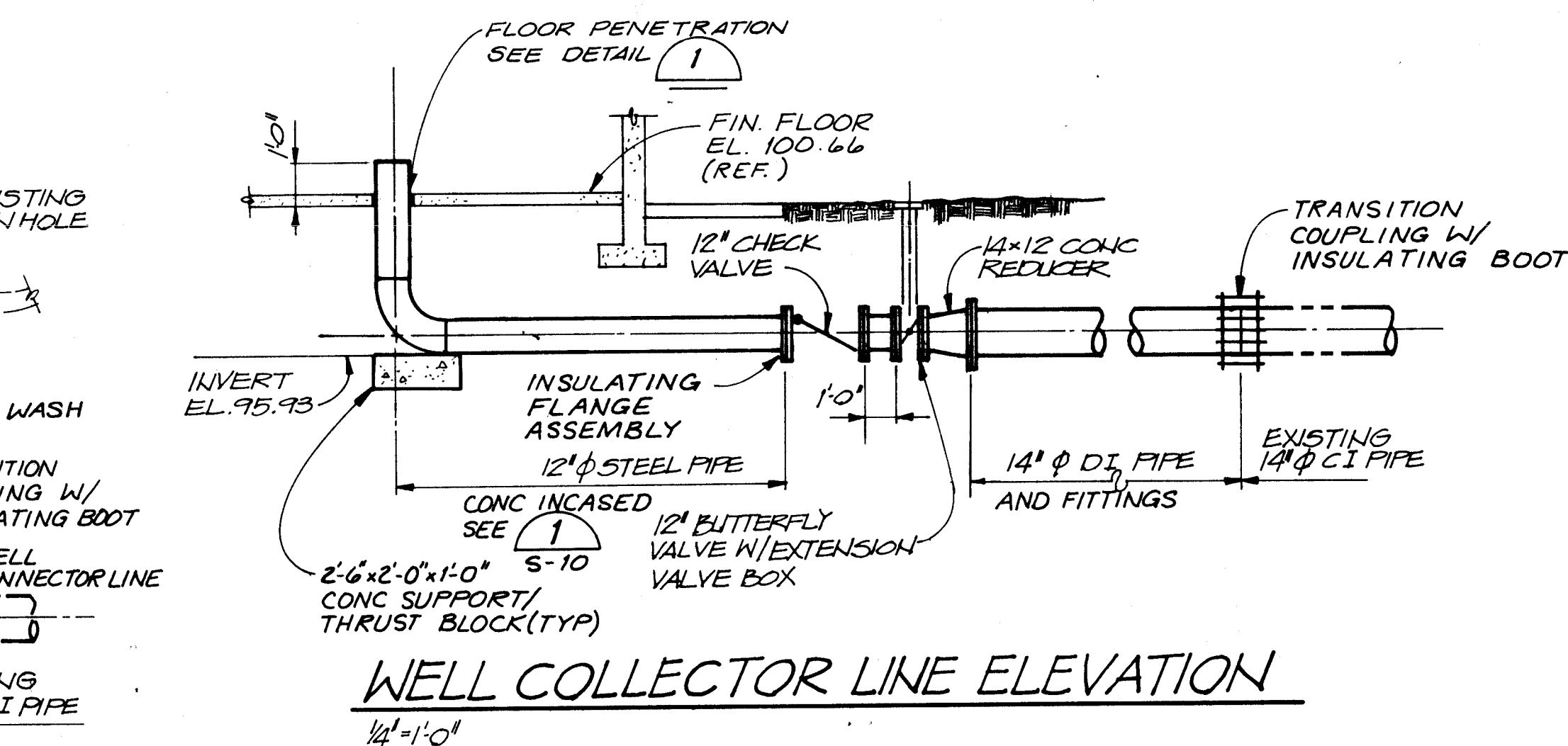
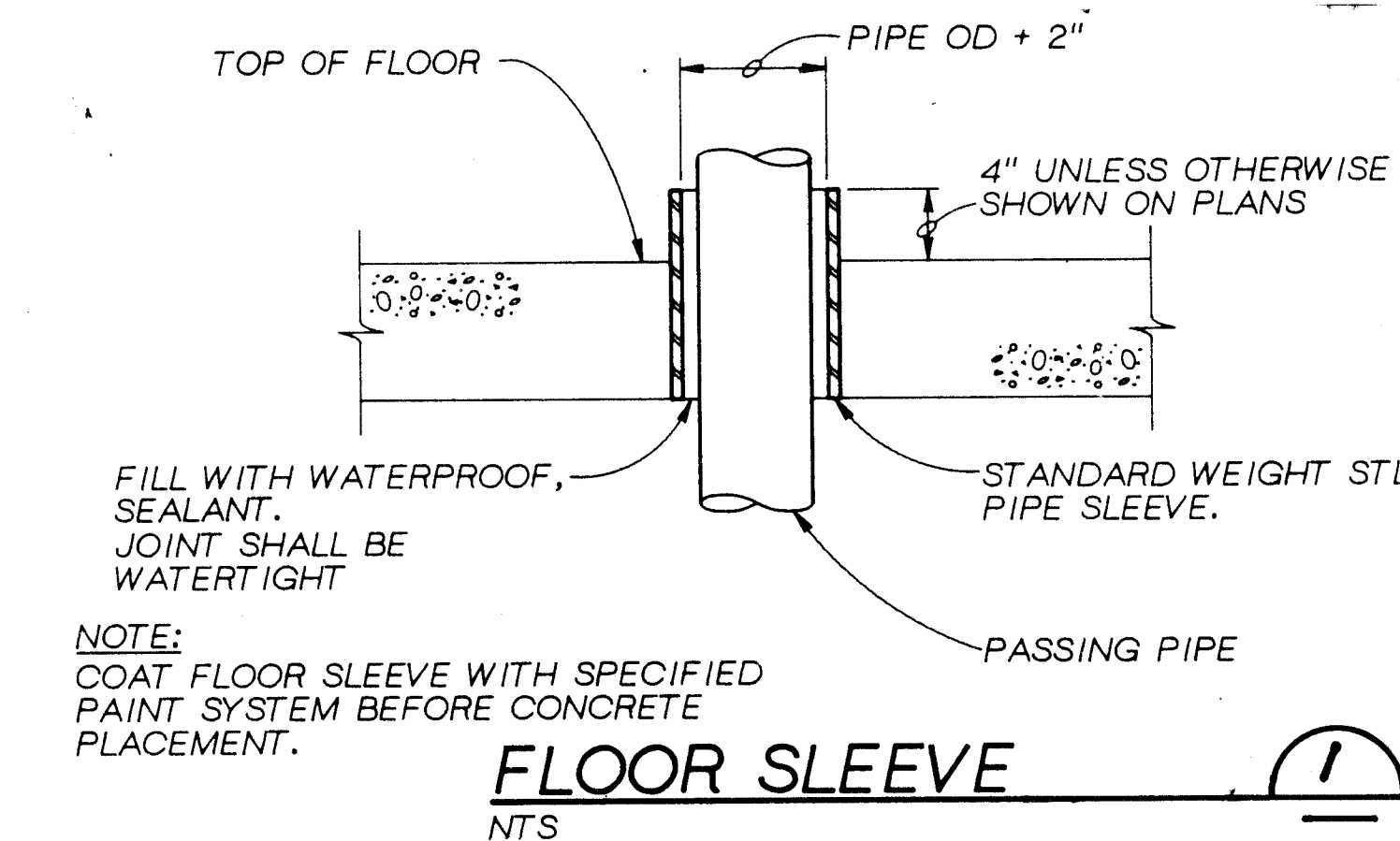
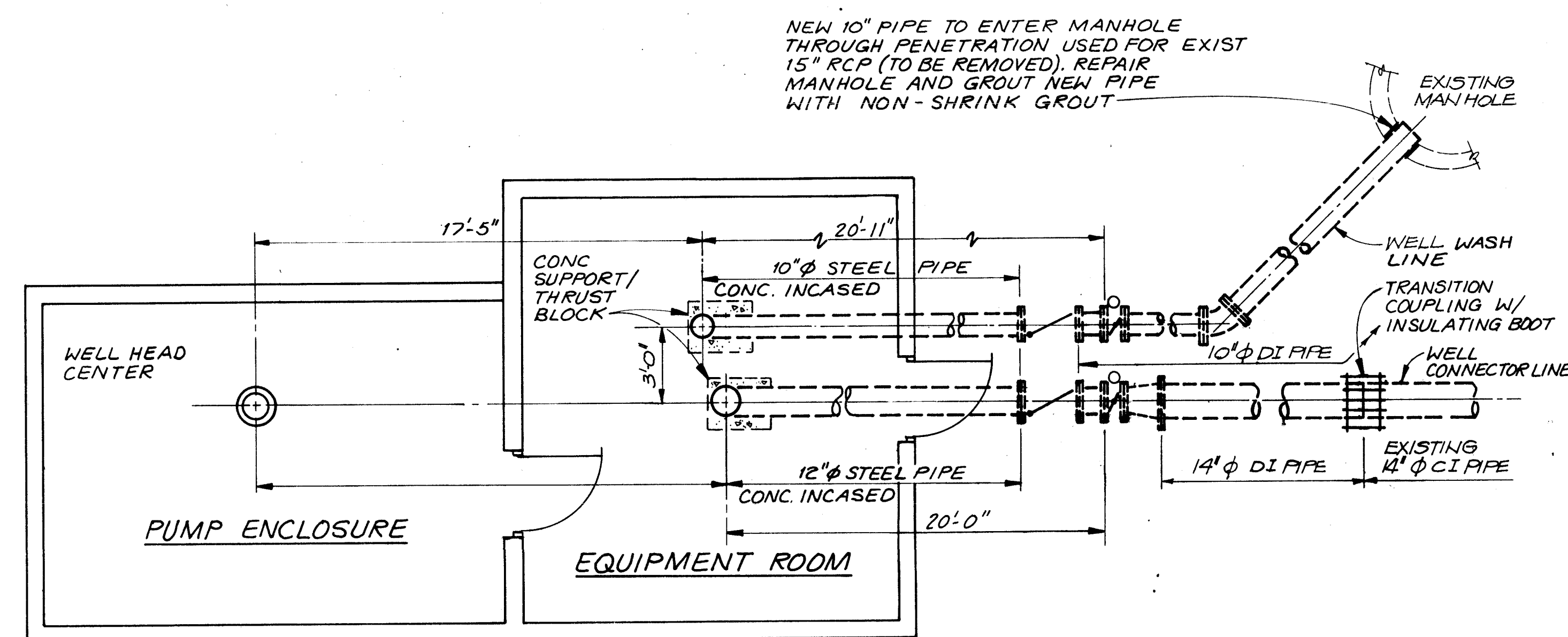
TITLE: WINTER 1986 WATER SYSTEM REHABILITATION  
BURTON NO. 2 ROOF FRAMING PLAN & DETAILS  
SCHEDULE 5

| APPROVALS    | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|--------------|----------|------|-----------|----------|------|
| D.R.C. Chair |          |      |           |          |      |
| Trans. Dev.  |          |      |           |          |      |
| Utility Dev. |          |      |           |          |      |

|                         |  |                     |                             |
|-------------------------|--|---------------------|-----------------------------|
| DRAWING NO. <b>S-12</b> |  | MAP NO. <b>K-17</b> | SHEET <b>63</b> OF <b>6</b> |
|-------------------------|--|---------------------|-----------------------------|

[illegible]





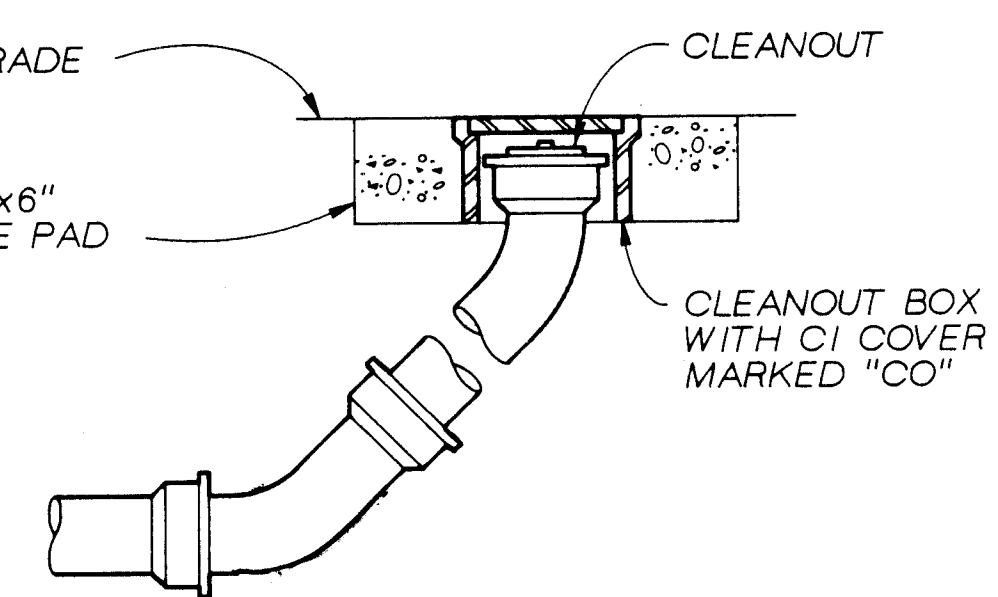
1 2 3 4 5 6 7 8 9 10 11 12 13 14  
26-0618 11 16897

VERIFY SCALES  
BAR IS ONE INCH ON  
ORIGINAL DRAWING.  
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SCALES ACCORDINGLY.

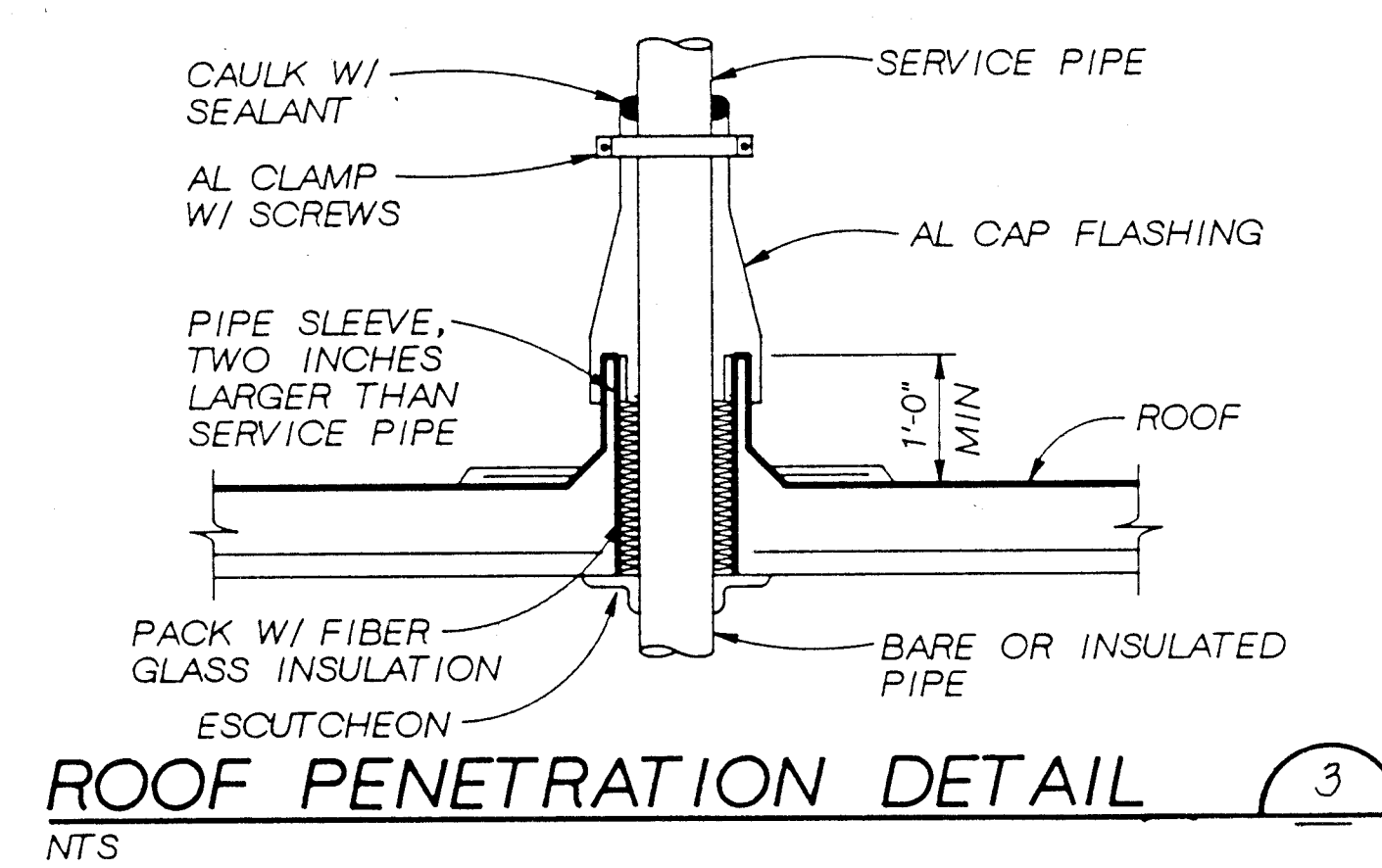
|                                                                                                        |          |         |           |          |          |
|--------------------------------------------------------------------------------------------------------|----------|---------|-----------|----------|----------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING GROUP                                    |          |         |           |          |          |
| TITLE:<br>WINTER 1988 WATER SYSTEM REHABILITATION<br>BURTON NO. 2 PIPING PLANS & DETAILS<br>SCHEDULE E |          |         |           |          |          |
| APPROVALS                                                                                              | ENGINEER | DATE    | APPROVALS | ENGINEER | DATE     |
| D.R.C. Chair                                                                                           |          |         |           |          |          |
| Trans. Dev.                                                                                            |          |         |           |          |          |
| Utility Dev.                                                                                           |          |         |           |          |          |
| DRAWING NO.                                                                                            | M-11     | MAP NO. | K-17      | SHEET    | 66 OF 68 |

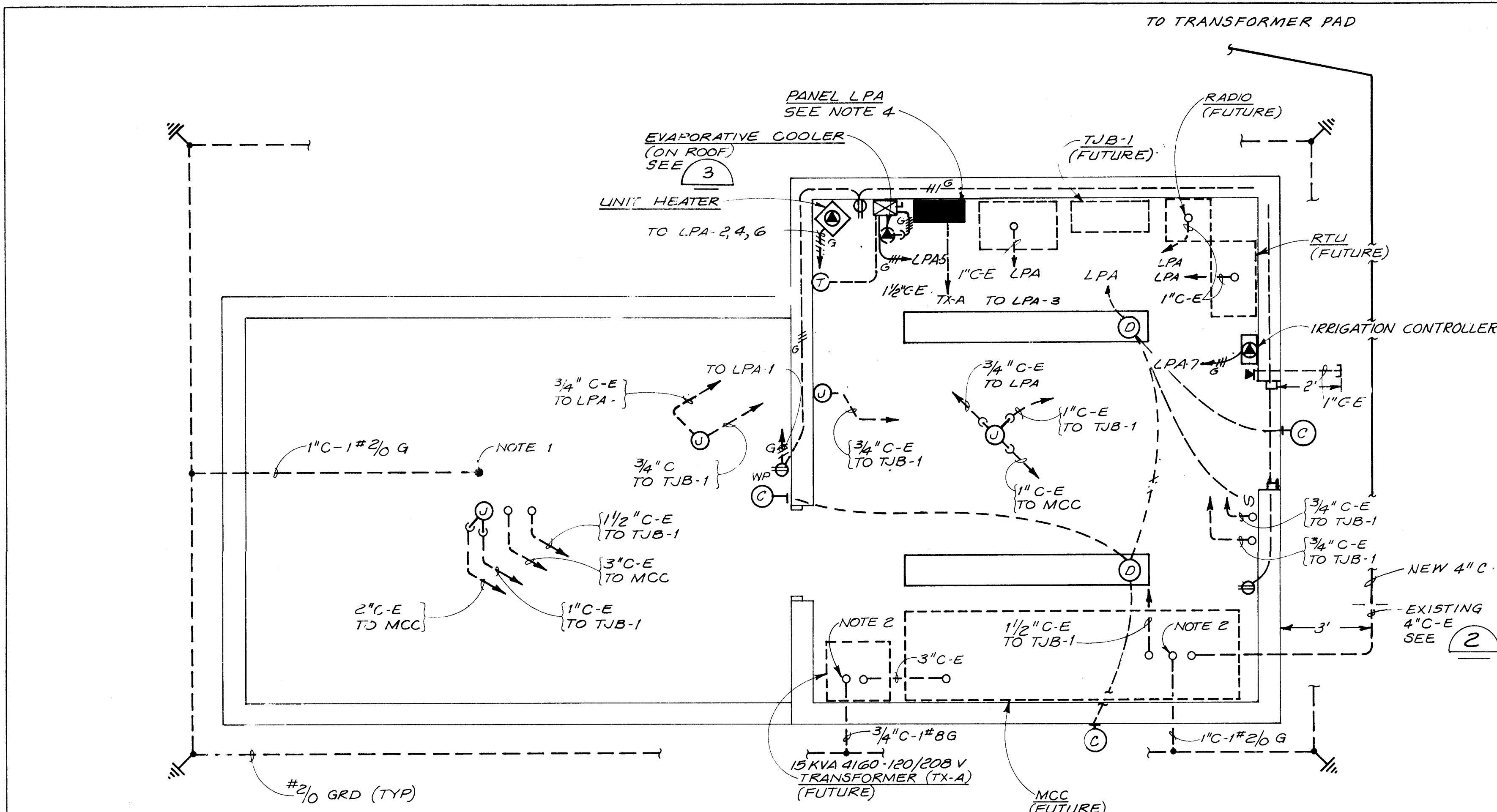


|                           |      |
|---------------------------|------|
| AS BUILT INFORMATION      |      |
| NO.                       | DATE |
| BENCH MARKS               |      |
| SURVEY INFORMATION        |      |
| NO.                       | DATE |
| ENGINEER'S SEAL           |      |
| DESIGN REVISIONS          |      |
| NO.                       | DATE |
| DESIGNED BY: J. L. MATEEN |      |
| CHECKED BY: G. D. MATEEN  |      |



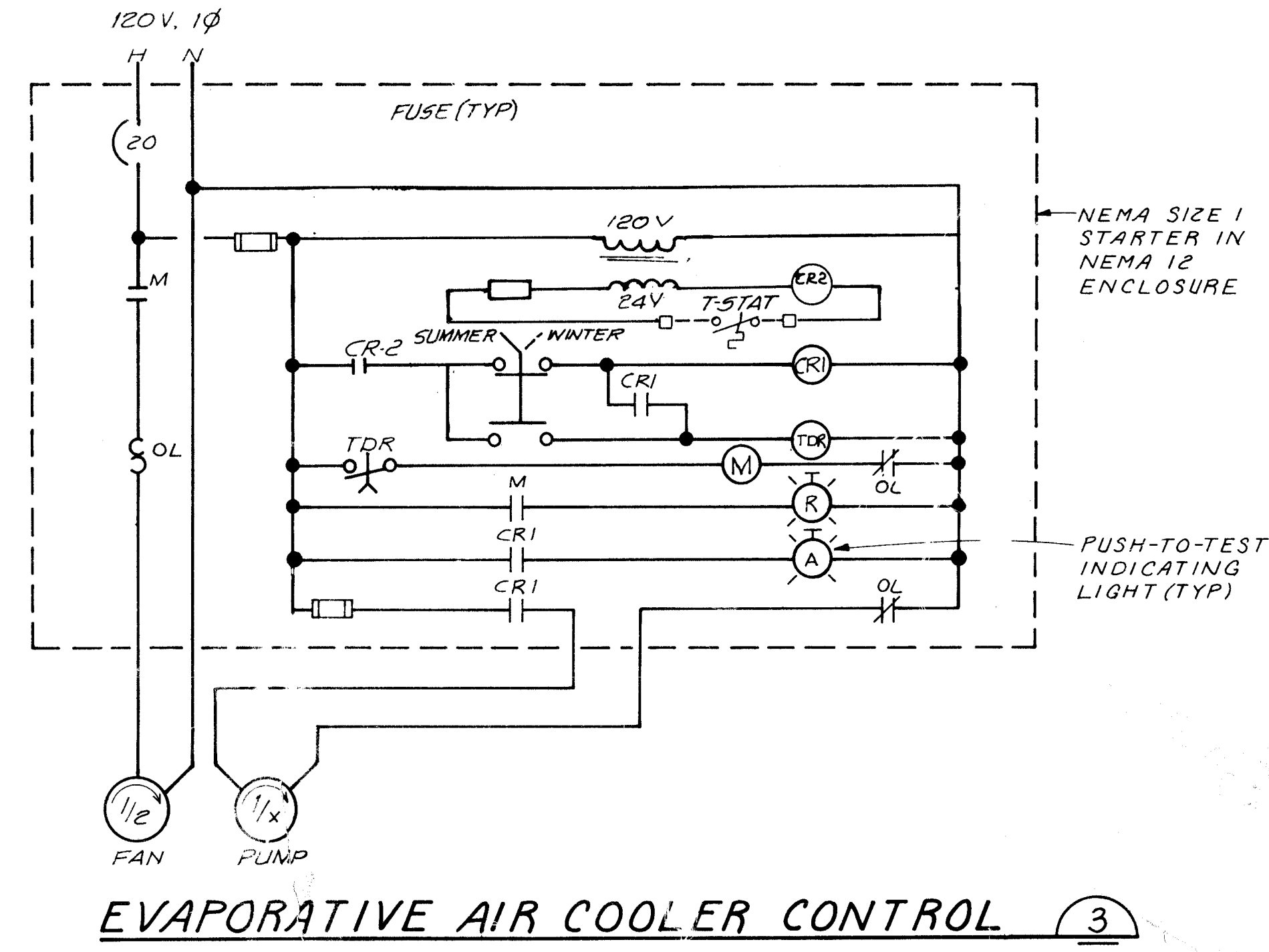
YARD CLEANOUT DETAIL 1

[illegible]

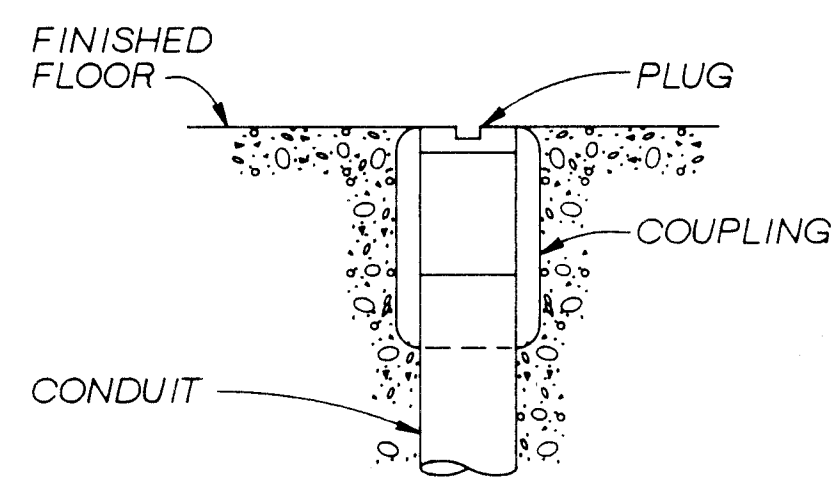


PLAN  
3/8" = 1' - 0"

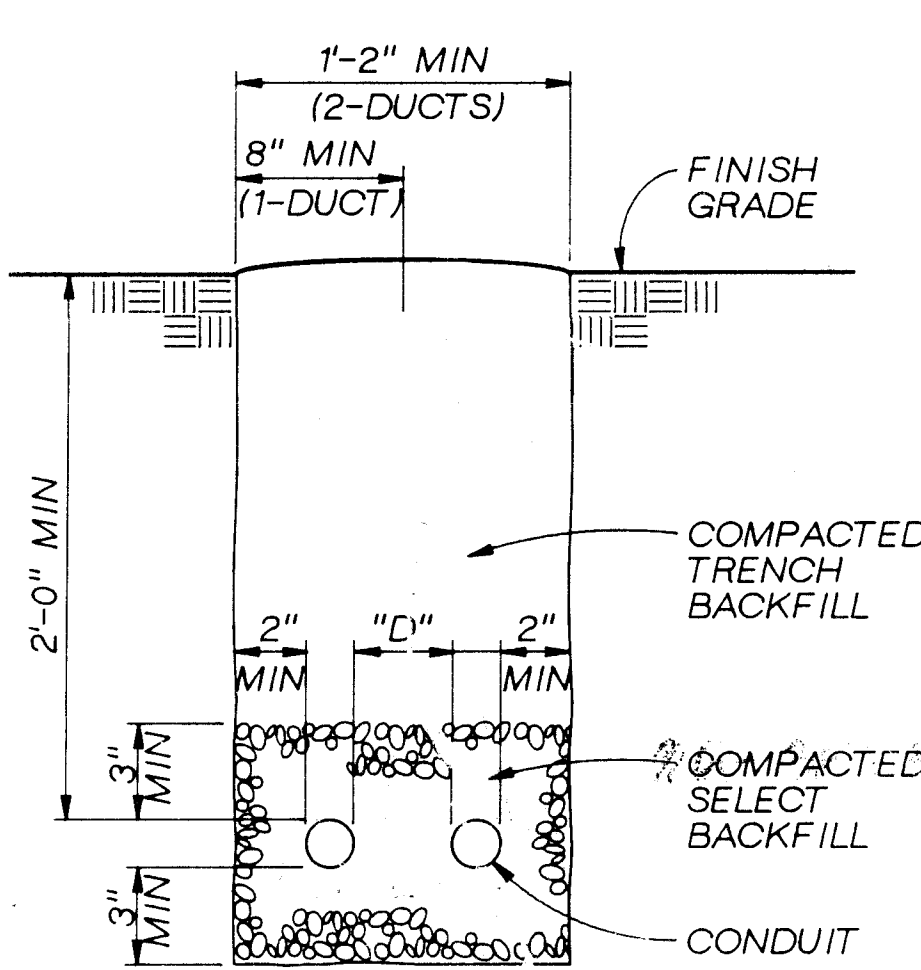
NOTE 1: CONTRACTOR SHALL RESTORE AND/OR REPLACE ALL PAVEMENT, CURBS, SIDEWALKS, ROCK SURFACING, LANDSCAPING, GRASS AREAS AND OTHER SITE FEATURES DAMAGED EITHER DIRECTLY OR INDIRECTLY BY CONTRACTOR CONSTRUCTION OPERATIONS.



EVAPORATIVE AIR COOLER CONTROL (3)



CONDUIT STUB (1)



TRENCH AND CONDUIT PLACEMENT (2)

D=3" MIN FOR 2" AND LARGER CONDUIT  
D=2" MIN FOR 1 1/2" AND SMALLER CONDUIT

- NOTES:
1. GADWELD GROUND TO WELL CASING
  2. LEAVE 3' FOOT LENGTH COILED FOR FUTURE EQUIPMENT CONNECTION
  3. STUB AND CAP ALL EMPTY CONDUIT. SEE (1)
  4. PROVIDE 100A 120/208V 3Ø 4W 10000 A/C PANEL BOARD WITH 50 A 3-POLE MAIN CB, 18 20A 1-POLE CB'S, AND 12 SPACES. CIRCUIT NO. 1 (RECEPTACLE). CB SHALL BE GROUND FAULT INTERRUPTING.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  
24-30-12-11-10-9-8-7-6-5-4-3-2-1

VERIFY SCALES  
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|                                                                                              |          |         |           |          |          |
|----------------------------------------------------------------------------------------------|----------|---------|-----------|----------|----------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING GROUP                          |          |         |           |          |          |
| TITLE: WINTER 1988 WATER SYSTEM REHABILITATION<br>BURTON NO. 2 ELECTRICAL PLAN<br>SCHEDULE E |          |         |           |          |          |
| APPROVALS                                                                                    | ENGINEER | DATE    | APPROVALS | ENGINEER | DATE     |
| D.R.C. Chair                                                                                 |          |         |           |          |          |
| Trans. Div.                                                                                  |          |         |           |          |          |
| Utility Div.                                                                                 |          |         |           |          |          |
| DRAWING NO.                                                                                  | E-40     | MAP NO. | K-17      | SHEET    | 68 OF 68 |

|                      |    |             |    |                    |    |             |    |                                                                           |  |
|----------------------|----|-------------|----|--------------------|----|-------------|----|---------------------------------------------------------------------------|--|
| AS BUILT INFORMATION |    | BENCH MARKS |    | SURVEY INFORMATION |    | FIELD NOTES |    | ENGINEER'S SEAL                                                           |  |
| DATE                 | BY | DATE        | BY | NO                 | BY | DATE        | BY |                                                                           |  |
| DATE                 | BY | DATE        | BY | NO                 | BY | DATE        | BY | J.M. BY<br>NO. DATE<br>REVISIONS<br>DESIGN DATE<br>DRAWN BY<br>CHECKED BY |  |