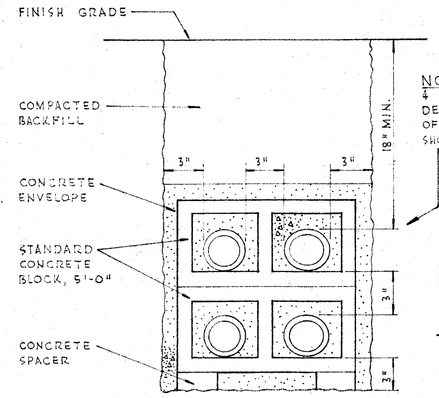


NOTE: 4 CONDUITS SHOWN IN DETAIL. ACTUAL NUMBER OF CONDUITS SHALL BE AS SHOWN ON PLOT PLAN.

UNDERGROUND CONDUIT INSTALLATION DETAIL

NO SCALE

TERMINAL CABINET SCHEDULE

DESIGNATION	LOCATION	USE	W	H	D	TERMS.	MT'G.	FORM
"ASA"	UNIT "A"	CLOCK	18	18	4	70	FLUSH	A
"ASB"	UNIT "A"		18	24	4	70		
"BS"	UNIT "B"		24	24	4	100		
"MC"	UNIT "C"		24	30	5½	160		
"MT"	UNIT "C"	PUB. TEL.	24	24	5½	—		
"DSA"	UNIT "D"	CLOCK	18	24	4	80		
"DSB"	UNIT "D"	CLOCK	18	18	4	60		

FORM A — NO LOCK

GENERAL NOTES

1. MINIMUM WIRE SIZE FOR 120 OR 208 VOLT WIRING SHALL BE #12.
2. ALL CONDUIT SIZES SHALL CONFORM TO THE CALIFORNIA ELECTRICAL SAFETY ORDERS, UNLESS NOTED AS LARGER.
3. SUBSCRIPTS a,b,c ETC., AT SWITCH SYMBOLS ARE TO DISTINGUISH BETWEEN SWITCHES.
4. + 4' - 6" INDICATES A MOUNTING HEIGHT FROM FINISHED FLOOR TO CENTER OF EQUIPMENT OR OUTLET.
5. 2 — 4/40W — 1 — E1 — Sa INDICATES: 2 = NO OF FIXTURES, 4/40 W = WATTAGE PER FIXTURE, 1 = TYPE OF FIXTURE, E1 = CIRCUIT NO., Sa = CONTROLLING SWITCH.
6. M.H. INDICATES HEIGHT FROM FINISHED FLOOR TO BOTTOM OF FIXTURE.
7. ALL OUTLETS SHALL BE INSTALLED AT THE HEIGHTS INDICATED IN THE SYMBOLS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
8. REFER TO WIRING DIAGRAMS ON MECHANICAL DRAWINGS.
9. ALL SYMBOLS SHOWN IN SYMBOL LIST ARE NOT NECESSARILY USED ON THIS PROJECT.

SYMBOLS

- INCANDESCENT LIGHTING FIXTURE, CEILING MOUNTED.
- INCANDESCENT LIGHTING FIXTURE, WALL MOUNTED.
- INCANDESCENT LIGHTING FIXTURE RECESSED, IN CEILING, SQUARE.
- INCANDESCENT LIGHTING FIXTURE, RECESSED IN CEILING, ROUND.
- FLUORESCENT LIGHTING FIXTURE, CEILING MOUNTED.
- FLUORESCENT LIGHTING FIXTURE, RECESSED IN CEILING.
- EXIT LIGHT, WALL MOUNTED. (ARROW AT SYMBOL INDICATES FIXTURE WITH DIRECTIONAL ARROW)
- EMERGENCY LIGHTING FIXTURE, WALL MOUNTED.
- NIGHT LIGHTING FIXTURE.
- 120A. 3P. SINGLE TWIST-LOCK RECEPTACLE IN CEILING
- GROUNDING TYPE DUPLEX CONVENIENCE OUTLET, + 12".
- SAFETY-TYPE DUPLEX CONVENIENCE OUTLET, + 12".
- WEATHER-PROOF DUPLEX CONVENIENCE OUTLET, + 12".
- COMBINATION 120/240 OR 120/208 VOLT DUPLEX CONVENIENCE OUTLET, + 12".
- IRONING BOARD OUTLET AND PILOT LIGHT
- 20 AMPERE 3-POLE, SINGLE TWIST-LOCK RECEPTACLE, THIRD POLE GROUNDED, (WIR ON ROOF ADJACENT TO FAN)
- 20 AMPERE, 4-POLE, SINGLE TWIST-LOCK RECEPTACLE, FOURTH POLE GROUNDED, + 12".
- 50 AMPERE, 3-POLE, SINGLE TWIST-LOCK RECEPTACLE, + 12".
- RANGE OUTLET, + 12".
- FLUSH SINGLE CONVENIENCE OUTLET IN FLOOR BOX.
- EXTENSION TYPE DUPLEX CONVENIENCE OUTLET ON FLOOR BOX.
- S — TOGGLE SWITCH, + 4' - 6". SEE NOTE BELOW.
- SK — KEY-OPERATED SWITCH, + 4' - 6". SEE NOTE BELOW.

SUFFIXES ON SWITCH SYMBOLS SHALL INDICATE THE FOLLOWING:
NO SUFFIX = SINGLE POLE, 2 = 2-POLE, 3 = 3-WAY, 4 = 4-WAY,
M = MOMENTARY-CONTACT, P = WITH PILOT LIGHT,

- MAGNETIC MOTOR STARTER.
- FLUSH FLOOR BOX.
- FLUSH FLOOR COUPLING.
- JUNCTION BOX, WALL MOUNTED, + 12".
- FLUSH MOUNTED MANUAL MOTOR STARTING SWITCH, +4'-6"
- MOTOR OUTLET.
- THERMOSTAT OUTLET, + 5' - 0".
- FLUSH MOUNTED PUSH BUTTON STATION, + 4' - 6".
- FLUSH MOUNTED CABINET OR EQUIPMENT AS NOTED, +
- SURFACE-MOUNTED CABINET OR EQUIPMENT AS NOTED, + +6'-6" TO TOP OF CAN.
- MASTER CLOCK.
- SECONDARY CLOCK, SEMI-FLUSH WALL MOUNTED, + 9' - 0".
- FIRE ALARM "BREAK-GLASS" STATION, + 4' - 9".
- HEAT ACTIVATED FIRE DETECTOR, CEILING MOUNTED.
- PROGRAM BELL, WALL MOUNTED.
- PROGRAM BELL, CEILING MOUNTED.
- YARD HORN, WALL MOUNTED.
- P.A. SPEAKER OUTLET, RECESSED IN CEILING.
- P.A. SPEAKER OUTLET, + 11' - 0".
- INTERCOMMUNICATING TELEPHONE OUTLET, + 4' - 10".
- EXTENSION TYPE INTERCOMMUNICATING TELEPHONE OUTLET, ON FLOOR BOX.
- PUBLIC TELEPHONE OUTLET, + 12".
- EXTENSION TYPE PUBLIC TELEPHONE OUTLET, ON FLOOR BOX.
- MICROPHONE OUTLET, + 12".
- SPEAKER OR MOTION PICTURE RECEPTACLE, + 12".
- 3 — THREE DUPLEX RECEPTACLES IN 3-GANG BOX & PLATE, +12"
- EXPLOSION PROOF SINGLE RECEPTACLE.
- EMERGENCY "OFF" PUSH BUTTON, +4'-6"
- FLY FAN OUTLET

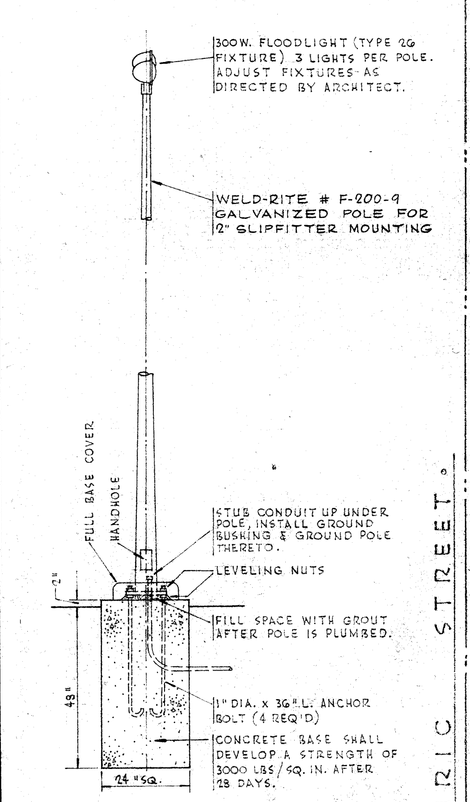
- CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS.
- CONDUIT RUN CONCEALED UNDER FLOOR OR BELOW GRADE.
- CONDUIT RUN EXPOSED.

2 #12 — ½" C.	6 #12 — 1" C.
3 #12 — ½" C.	7 #12 — 1" C.
4 #12 — ¾" C.	8 #12 — 1" C.
5 #12 — ¾" C.	9 #12 — 1¼" C.

WIRE SIZE OTHER THAN #12 IS NOTED ON EACH CONDUIT RUN, WITH SIZE OF CONDUIT (i.e.: 3 #10 — ¾" C).

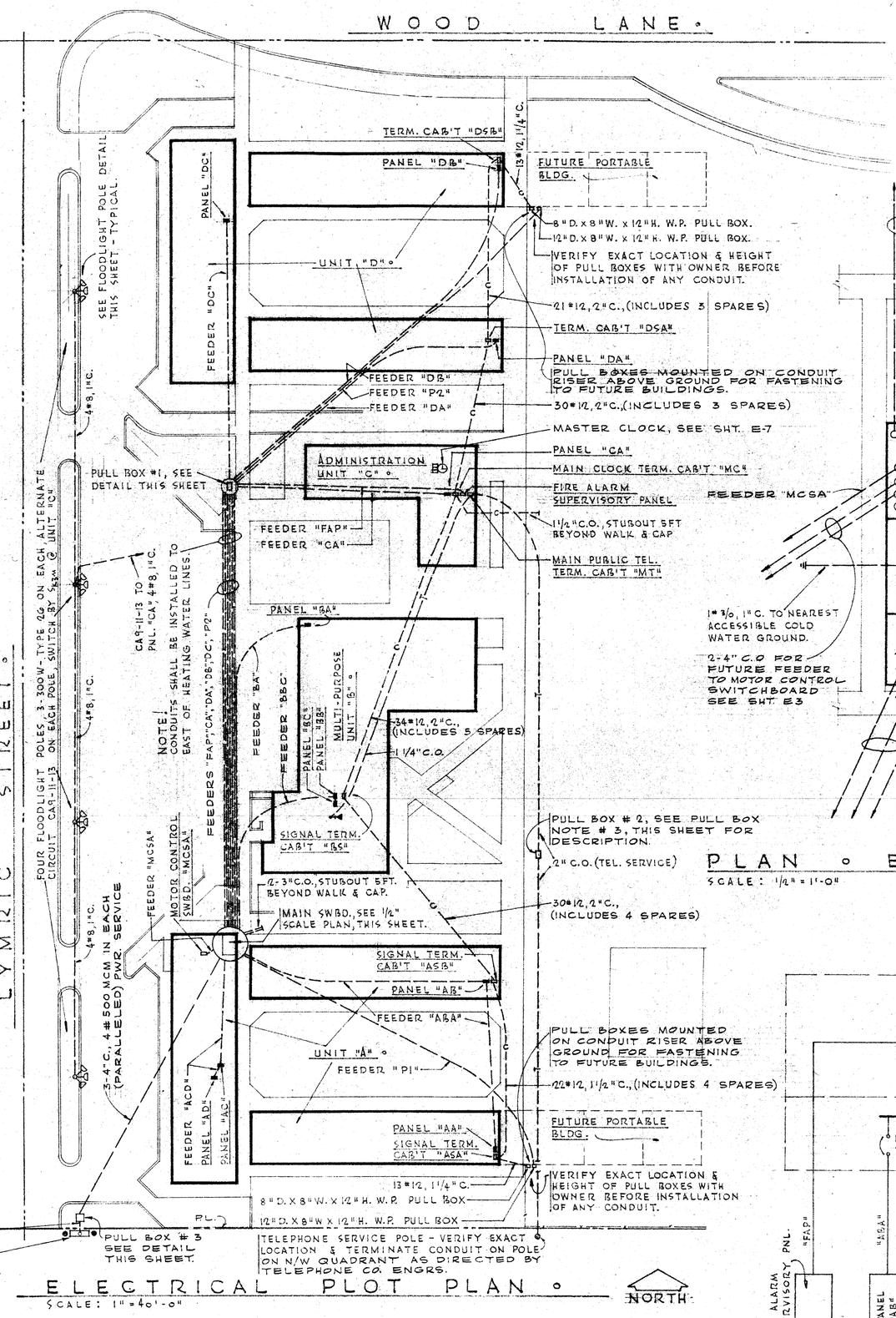
- C — CLOCK, PROGRAM & FIRE ALARM SYSTEM CONDUIT.
- A — PUBLIC ADDRESS SYSTEM CONDUIT.
- T — PUBLIC TELEPHONE SYSTEM CONDUIT.

- FLUSH-MOUNTED PANEL
- SURFACE MOUNTED PANEL } +6'-6" TO TOP OF CAN.
- N/F DISCONNECT SWITCH, AMPERAGE SIZE, NO. OF POLES & VOLTAGE CLASS FOR MOTOR BEING CONTROLLED.



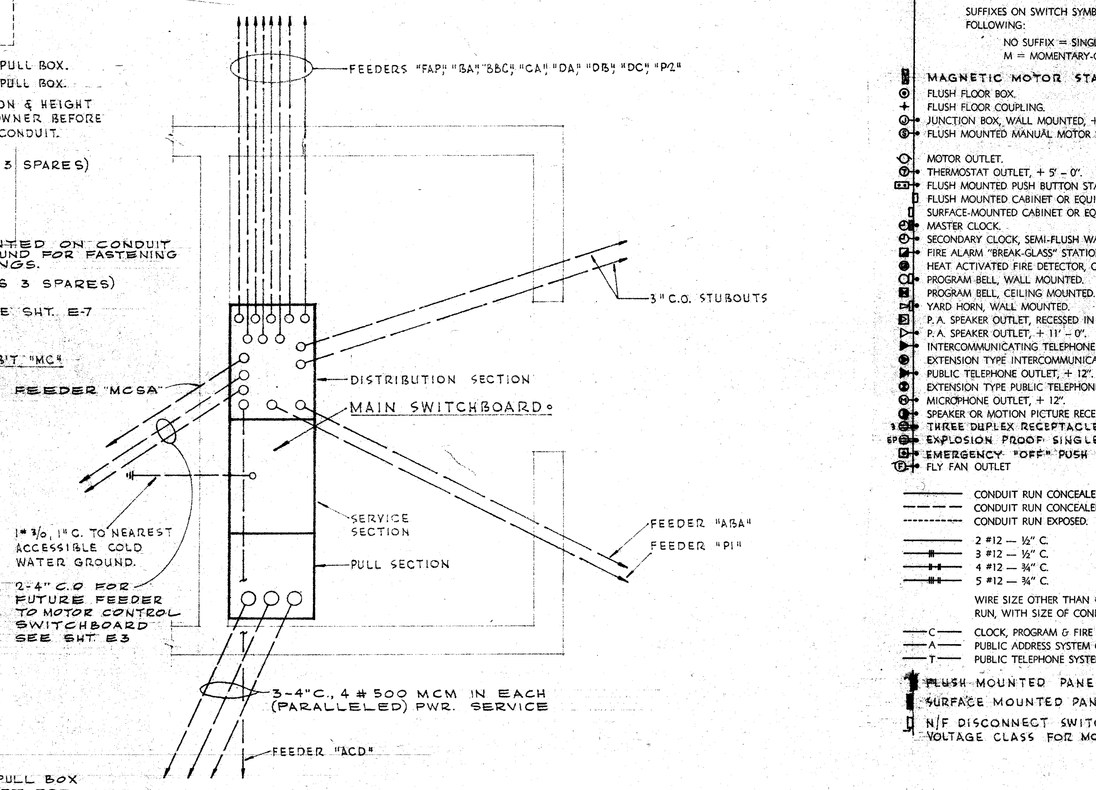
DETAIL ◦ FLOODLIGHT POLE

NO SCALE:



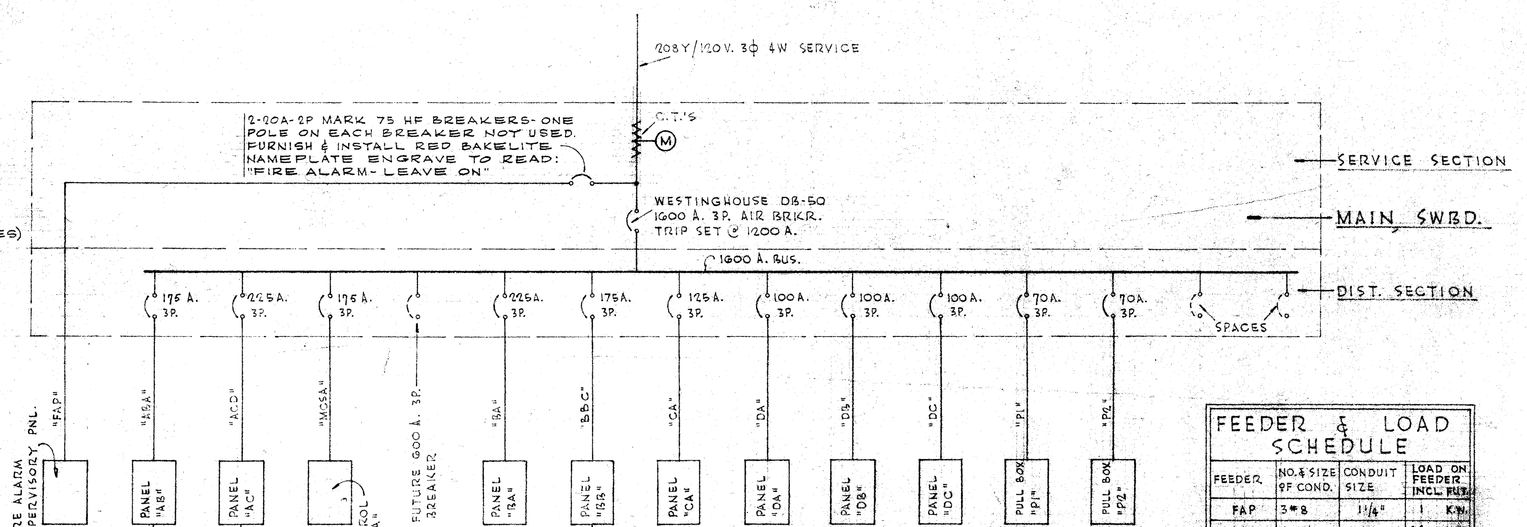
ELECTRICAL PLOT PLAN ◦

SCALE: 1" = 40'-0" NORTH



PLAN ◦ ELECTRIC EQUIP. A-18

SCALE: 1/8" = 1'-0" NORTH



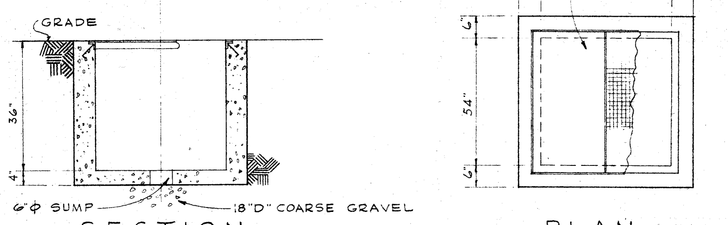
SINGLE LINE DIAGRAM ◦

FEEDER & LOAD SCHEDULE

FEEDER	NO. & SIZE OF COND.	CONDUIT SIZE	LOAD ON FEEDER INCL. PLUG
FAP	3#8	1¼"	1 K.W.
ASA	4#3/0	3"	64.5 K.W.
ACD	4#4/0	3"	69.5 K.W.
MCSA	3#4/0	2"	34 H.P.
BA	4#4/0	3"	69.7 K.W.
BC	3#3/0	2½"	19 K.W.
CA	2#3/0, 1#1/0	3"	31.4 K.W.
DA	3#3/0, 1#1	2½"	53.8 K.W.
DB	3#3/0, 1#1	2½"	21 K.W.
DC	3#3/0, 1#1	2½"	24.4 K.W.
P1	4#4	2"	12.5 K.W.
P2	3#1/0, 1#4	2½"	12.5 K.W.
BBC	4#4/0	3"	47.6 K.W.

PULL BOX NOTES:

1. FURNISH & INSTALL PULL-IN IRONS OPPOSITE EACH CONDUIT ENTRY.
2. INSTALL # 6 STEEL 12" O.C. BOTH WAYS THRU SIDES & BOTTOM OF PULL BOX.
3. PULL BOX # 2 (FOR TEL. SERVICE) SHALL BE SIMILAR TO PULL BOX #1 EXCEPT THAT IT SHALL BE 24" W. x 48" L. x 36" D (INSIDE CLEAR DIMENSIONS) WITH ALHAMBRA FOUNDRY CO. # A-1342 SPLIT COVER & FRAME.



DETAIL ~ CONCRETE PULL BOXES # 1 & # 3

ELECTRICAL ENGINEER
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by C. Thayer

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DATE:

BAKERSFIELD CITY SCHOOL DISTRICT BOARD OF EDUCATION
APPROVED:
DATE: OCT 26 1953

DATE: OCT 26 1953
DRAWN BY: R.S., V.H.A.
CHECKED BY: R.P.R.

ELECTRICAL PLOT PLAN, SINGLE LINE DIAGRAM, SYMBOLS & NOTES

NEW JUNIOR HIGH SCHOOL
WOOD LANE & REAL ROAD
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, CALIFORNIA

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