



**KLASSEN CORPORATION**  
Architecture  
Construction

2021 Westwind Drive  
Bakersfield, CA 93301  
(805) 327-0875

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES.

BAKERSFIELD CITY SCHOOL DISTRICT  
**COLONEL HOWARD NICHOLS ELEMENTARY SCHOOL**  
MODERNIZATION PROJECT  
PARTIAL SITE ELECTRICAL PLAN.  
SYMBOLS

ELECTRICAL ENGINEERING, INC.  
1115 W. 10th Street, Suite 203  
Bakersfield, CA 93301  
(805) 327-0875  
CREATED: 04/01/91

Issue: 1  
Date: APRIL 4, 1991  
Sheet of: 2

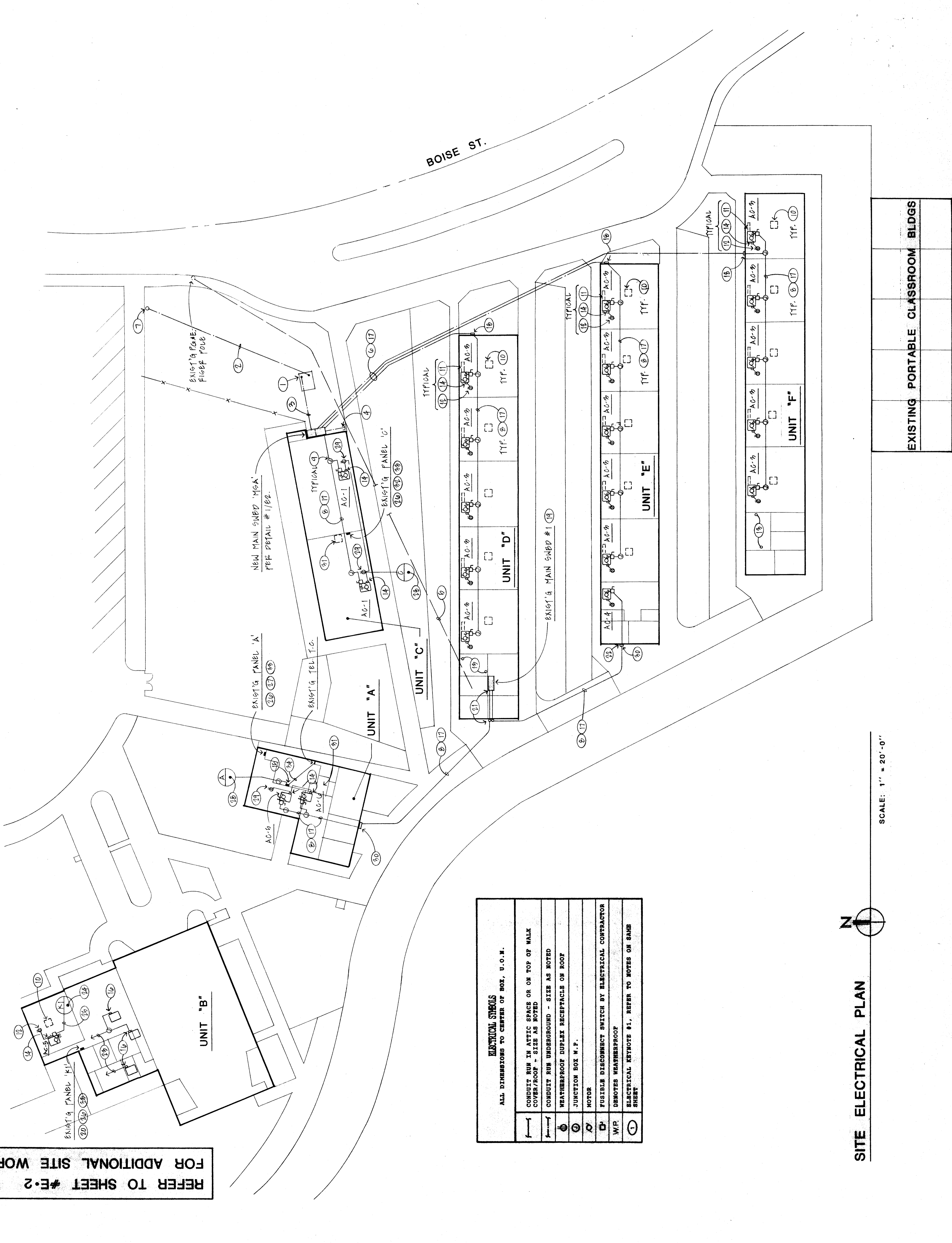
**ADDITIONAL ELECTRICAL NOTES:**

- 1. PROVIDE RFD AND BARBER POLES FOR P.C. & E. PAD MOUNTED TRANSFORMER PER P.C. & E. REQUIREMENTS.
- 2. TWO 4" (PRIMARY).
- 3. TWO 4" (SECONDARY).
- 4. THREE 3" C STD OUTS, 8" AWAY FROM MAIN SWITCHBOARD ENCLOSURE, CAP AND THE.
- 5. VERIFY EXACT LOCATIONS OF EXISTING UNDERGROUND LINES WITH OWNER AND UTILITY COMPANIES BEFORE STARTING EXCAVATION.
- 6. GANTRY AND PANEL BEARING SUPPORTS BEHIND W/P OR AS BAVING BE PROVIDED. CONTRACTOR MAY JACK UNDER CONCRETE SUBRAILS AT HIS OPTION.
- 7. NEW MAINS PER P.C. & E. B. VERIFY EXACT LOCATION AND SUBRAIL WITH P.C. & E. B.
- 8. RUN FEEDERS ON TOP OF EXISTING ROOF/WALK COVER. PROVIDE WEATHERPROOFING OVER FEEDERS. PROVIDE A 1/2" DIA. STEEL WEATHERPROOF LIQUID TIGHT FLEXIBLE CONDUIT AND ADJACENT SURFACES AND/OR EXPANSION JOINTS AS REQUIRED.
- 9. PROVIDE A 12" W X 12" H X 4" D NEMA 3R SCREEN COVER CAN. CIRCLE AW "RELOC" SERIES OR EQUAL.
- 10. DISCONNECT EXISTING EVAPORATIVE COOLER BEING REMOVED. RE-ROUTE AND RECONNECT ANY FEED-THRU CIRCUITS TO REMAIN IN USE. PULL OUT AND REMOVE ANY FEED-THRU CIRCUITS TO BE REMOVED. RE-ROUTE AND RECONNECT ANY FEED-THRU CIRCUITS TO REMAIN IN USE, IF POSSIBLE.
- 11. DISCONNECT EXISTING WET VENTILATORS BEING REMOVED. RE-ROUTE AND RECONNECT ANY FEED-THRU CIRCUITS TO REMAIN IN USE, IF POSSIBLE. WEATHERPROOF DUPLEX RECEPTACLE AT NEW AC UNIT, IF POSSIBLE.
- 12. PROVIDE A NEW WEATHERPROOF DUPLEX RECEPTACLE ON ROOF AND MOUNT ADJACENT TO NEW AC UNIT. CONNECT TO EXISTING EVAPORATIVE COOLER CIRCUIT, IF APPLICABLE. IF NOT, CONNECT TO NEAREST AVAILABLE FEED-THRU CIRCUIT OR MOUNT TO REAR SIDE OF WEATHERPROOF DUPLEX RECEPTACLE AT NEW AC UNIT, IF POSSIBLE.
- 13. DISCONNECT ALL ELECTRICAL CONNECTIONS TO EXISTING BOILER EQUIPMENT BEING REMOVED. RE-ROUTE AND RECONNECT ANY FEED-THRU CIRCUITS TO REMAIN IN-USE. PULL OUT IDLE WIRE, FUSIBLE DISCONNECTS, EXPANDED CONDUIT, ETC. LABEL RESPECTIVE CIRCUIT BREAKER(S) AS "SPARE".
- 14. DISCONNECT EXISTING WET VENTILATORS BEING REMOVED. RE-ROUTE AND RECONNECT ANY FEED-THRU CIRCUITS TO REMAIN IN-USE, IF POSSIBLE. WEATHERPROOF DUPLEX RECEPTACLE AT NEW AC UNIT, IF POSSIBLE. PULL OUT IDLE WIRE AND REMOVE ANY EXPOSED CONDUIT TO BELOW GRADE AND CAP.
- 15. PROVIDE A NEW WEATHERPROOF DUPLEX RECEPTACLE ON ROOF AND MOUNT ADJACENT TO NEW AC UNIT. CONNECT TO EXISTING EVAPORATIVE COOLER CIRCUIT, IF APPLICABLE. IF NOT, CONNECT TO NEAREST AVAILABLE FEED-THRU CIRCUIT OR MOUNT TO REAR SIDE OF WEATHERPROOF DUPLEX RECEPTACLE AT NEW AC UNIT, IF POSSIBLE.
- 16. DISCONNECT ALL ELECTRICAL CONNECTIONS TO EXISTING BOILER EQUIPMENT BEING REMOVED. RE-ROUTE AND RECONNECT ANY FEED-THRU CIRCUITS TO REMAIN IN-USE. PULL OUT IDLE WIRE, FUSIBLE DISCONNECTS, EXPANDED CONDUIT, ETC. LABEL RESPECTIVE CIRCUIT BREAKER(S) AS "SPARE".
- 17. REFER TO ONE LINE DIAGRAM, DETAIL #4/12-2 FOR ALL FEEDER SIZES.
- 18. PROVIDE A 12" W X 12" H X 4" D NEMA 3R SCREEN COVER CAN AND MOUNT ON EXISTING WALL AT ±12" TO BOTTOM OF CAN.
- 19. ADD NEW CIRCUIT BREAKERS TO EXISTING MAIN SWITCHBOARD #1 PER ONE LINE DIAGRAM, DETAIL #4/12-2.
- 20. PROVIDE A NEW 35/3 CIRCUIT BREAKER TO EXISTING PANEL "A", MEASUREMENT SHOWS A LOAD OF 48 AMPS ON THE HIGHEST PHASE. WITH THE ADDITIONAL LOAD OF AC 5, 17.8 EIA, PANEL HAS CAPACITY. PROVIDE A NEW TYPED CIRCUIT BREAKER(S) AS "SPARE".
- 21. RUN FEEDER OUT TOP OF EXISTING MAIN SWITCHBOARD AND PUNCH THROUGH EXISTING ROOF TO EDGE OF BUILDING. PROVIDE ISOLATED CONDUCTOR, THEN RUN DOWN WALL TO TOP OF WALK COVER. PROVIDE REDWOOD BLOCKING SET IN MATTIC AT 5' INTERVALS PER DETAIL #3/7-2. SHIM FERRITATION AND PROVIDE ROOF JACK AS REQUIRED.
- 22. RUN FEEDER UP WALL TO ABOVE ROOF. PROVIDE 1/2" CONDUCTOR WHEN RUN ON TOP OF EXISTING ROOF TO NEW AC UNIT.
- 23. CONNECT TO NEAREST 120V UNSWITCHED CIRCUIT. VERIFY EXACT LOCATION AT SITE.
- 24. CONNECT TO NEW 35/3 CIRCUIT BREAKER.
- 25. 3/4" C - 3 @ 10 + 1 @ 5 GND (THRU-CU).
- 26. FUSE DOWN IN WALL TO PANEL, IF POSSIBLE. IF NOT, CUT AND PATCH WALL AS REQUIRED.
- 27. PROVIDE A NEW 28/1 CIRCUIT BREAKER TO EXISTING PANEL "A", MEASUREMENT SHOWS A LOAD OF 36 AMPS ON THE HIGHEST PHASE. WITH THE ADDITIONAL LOAD OF AC 5, 17.8 EIA, PANEL HAS CAPACITY. PROVIDE A NEW TYPED CIRCUIT BREAKER(S) AS "SPARE".
- 28. CONNECT TO NEW 28/1 CIRCUIT BREAKER.
- 29. WEATHERPROOF RECEPTACLE ON ROOF. MOUNT WITHIN 25' OF AC UNIT.
- 30. PROVIDE AN 8" W X 12" H X 4" D NEMA 3R SCREEN COVER CAN AND MOUNT ON EXISTING WALL ABOVE WALK COVER.
- 31. DISCONNECT ALL ELECTRICAL CONNECTIONS TO EXISTING H.V.A.C. EQUIPMENT BEING REMOVED. RE-ROUTE AND RECONNECT ANY FEED-THRU CIRCUITS TO REMAIN IN-USE. PULL OUT IDLE WIRE, FUSIBLE DISCONNECTS, EXPANDED CONDUIT, ETC. LABEL RESPECTIVE CIRCUIT BREAKER(S) AS "SPARE".
- 32. PROVIDE NEW 35/3 CIRCUIT BREAKER TO EXISTING PANEL "A", MEASUREMENT SHOWS A LOAD OF 48 AMPS ON THE HIGHEST PHASE. WITH THE ADDITIONAL LOAD OF AC 5, 17.8 EIA, PANEL HAS CAPACITY. PROVIDE A NEW TYPED CIRCUIT BREAKER(S) AS "SPARE".
- 33. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKER ENCLOSURE AND CABLE LUG TO PANEL BUSBARS, IF SPACE IS NOT AVAILABLE IN EXISTING PANEL OR IF CIRCUIT BREAKER TYPE IS CHANGED.
- 34. 3/4" C BREAKER EXISTING TELEPHONE T.C. AND MODERN LOCATED AT GLOBAL CONTROL MODULE. ROW IN EXISTING ATTIC SPACE.
- 35. TYPICAL OF ALL H.V.A.C. EQUIPMENT. ROW IN EXISTING ATTIC SPACE. ALL CABLES AND STRINGS (LINES AND LOW VOLTAGE) SHALL BE FURNISHED BY THE CONTRACTOR.

ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED OR MOUNTED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE CALIFORNIA ELECTRICAL CODE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES.

**UTILITY Co. REQUIREMENTS**  
VERIFY AND COMPLY WITH ALL UTILITY COMPANY REQUIREMENTS BEFORE BIDDING JOB AND BEFORE CONSTRUCTION:  
POWER Co. \_\_\_\_\_ Ph. (805) 327-0875  
PHONE Co. \_\_\_\_\_ Ph. \_\_\_\_\_  
CATV Co. \_\_\_\_\_ Ph. \_\_\_\_\_

**CODE, RULES AND REGULATIONS**  
ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST REGULATIONS OF THE STATE FIRE MARSHAL, CALIFORNIA CODE OF REGULATIONS, SERVING UTILITY COMPANIES AND OTHER APPLICABLE STATE ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES, WHERE WORK OF A HIGHER DEGREE IS INDICATED IN THE PLANS OR SPECIFICATIONS. THIS REQUIREMENT SHALL GOVERN.



**ELECTRICAL SYMBOLS**

ALL DIMENSIONS TO CENTER OF BOX, U.O.M.

—	CONDUIT RUN IN ATTIC SPACE OR ON TOP OF WALK COVER/ROOF - SIZE AS NOTED
—	CONDUIT RUN UNDERGROUND - SIZE AS NOTED
⊖	WEATHERPROOF DUPLEX RECEPTACLE ON ROOF
⊕	JUNCTION BOX M.P.
⊗	MOTOR
⊘	FUSIBLE DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR
⊖	DEVICES WEATHERPROOF
⊖	ELECTRICAL KEYNOTE #1. REFER TO NOTES ON SHEET

REFER TO SHEET #F-2 FOR ADDITIONAL SITE WORK

**SITE ELECTRICAL PLAN**  
SCALE: 1" = 20'-0"  
N

EXISTING PORTABLE CLASSROOM BLDGS