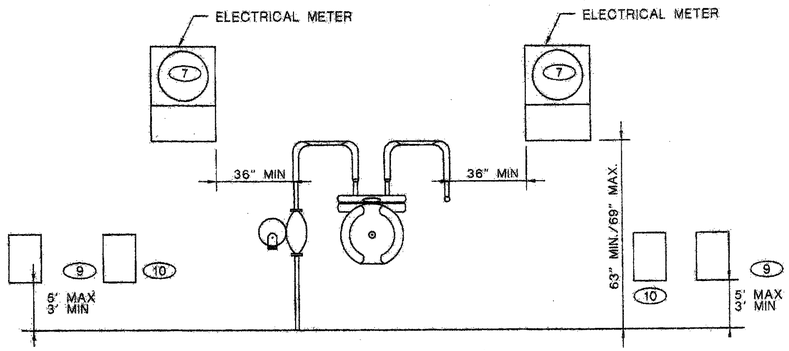
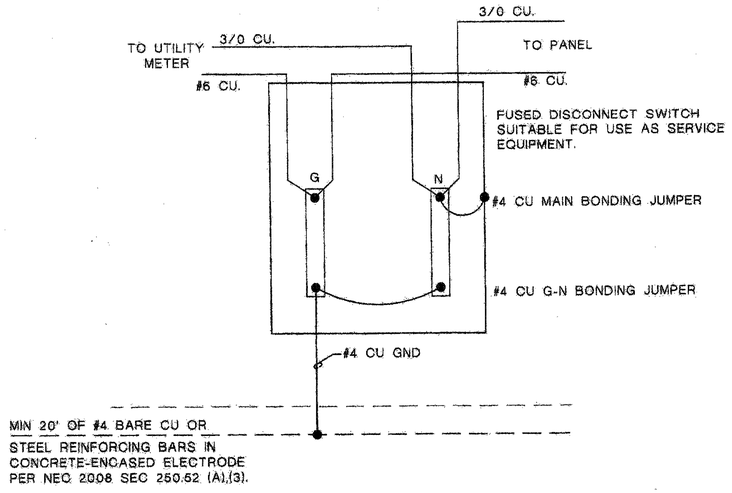


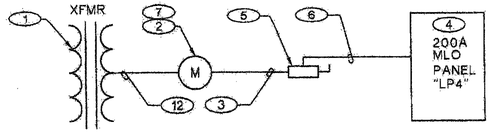
ELECTRIC AND GAS METER SEPARATION DETAIL (11)

SCALE: NONE



4-BEDROOM RESIDENTIAL GROUNDING DETAIL

SCALE: NONE



ONE LINE DIAGRAM 4-BEDROOM RESIDENTIAL UNITS

SCALE: NONE

Keyed Notes

1. ARRANGE FOR NEW 200A, 120/240V 3W RESIDENTIAL SERVICE AND COMPLY WITH ALL NTUA STANDARDS. (FOR 4-BEDROOM UNIT).
2. METER PER NTUA STANDARDS.
3. 3~3/0 CU, 1~#6 CU EGC IN 2" EMT NIPPLE.
4. 200A PANEL 20/40, MLO, RATED 10 KAIC IN NEMA 1 ENCLOSURE.
5. 200A, 120/240V FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE FUSE WITH 200A CLASS "RK" FUSES, SUITABLE FOR USE AS SERVICE EQUIPMENT.
6. 3~#3/0 CU, 1~#6 CU, EGC IN 2"C, MAXIMUM CONDUCTOR LENGTH OF 200FT. UPSIZE CONDUCTORS TO NEXT LARGER SIZE FOR LENGTH GREATER THAN 200FT BUT LESS THAN 260FT.
7. METER SOCKET SHALL BE NEMA 3R, RAIN TIGHT EQUIPMENT AND SOCKET JAWS SHALL BE FREE OF FOREIGN MATERIAL (PAINT, PLASTER, ETC) THE CENTER OF THE METER SOCKET SHALL BE 5'-6" ABOVE FINAL GRADE. EQUIPMENT SHALL MEET NTUA REQUIREMENTS.
8. MOUNT METER /BREAKER DEVICE ON EXTERIOR WALL. PAINT TO MATCH COLOR OF SIDING. PROVIDE SOLID BLOCKING BETWEEN STUDS.
9. TELEPHONE BOX STUB OUT PER FRONTIER COMMUNICATION STANDARD P1-3.
10. SATELLITE CABLE TERMINATION POINT IN PROXIMITY TO TELEPHONE BOX BUT NOT IN CONFLICT WITH OTHER EQUIPMENT IN THE AREA.
11. COMPLY WITH NTUA STANDARDS.
12. CONTRACTOR TO PROVIDE SERVICE TO METER, SEE C-103.

Short Circuit Calculations

MAXIMUM FAULT CURRENT IS LESS THAN 65KA FOR 167KVA 120/240V TRANSFORMER (BASED ON Z=1.11% FROM BUSSMAN ELECTRICAL PROTECTION HAND BOOK) VERIFY TRANSFORMER SIZE AND IMPEDANCE WITH UTILITY.

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SEAL / CERTIFICATION

DAVID J. REDDING NEW MEXICO 14514 REGISTERED PROFESSIONAL ENGINEER
6/10/09

ENGINEERS

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ABQ Project Number: 28176

PROJECT NAME

Chinle Valley School Group Homes Chinle, Arizona

CLIENT NAME

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No.	Description	Date

ELECTRICAL DETAILS & ONE-LINE DIAGRAMS

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Project number	08-04
Date	6/10/09
Drawn by	JB
Checked by	AS

E-603

Scale