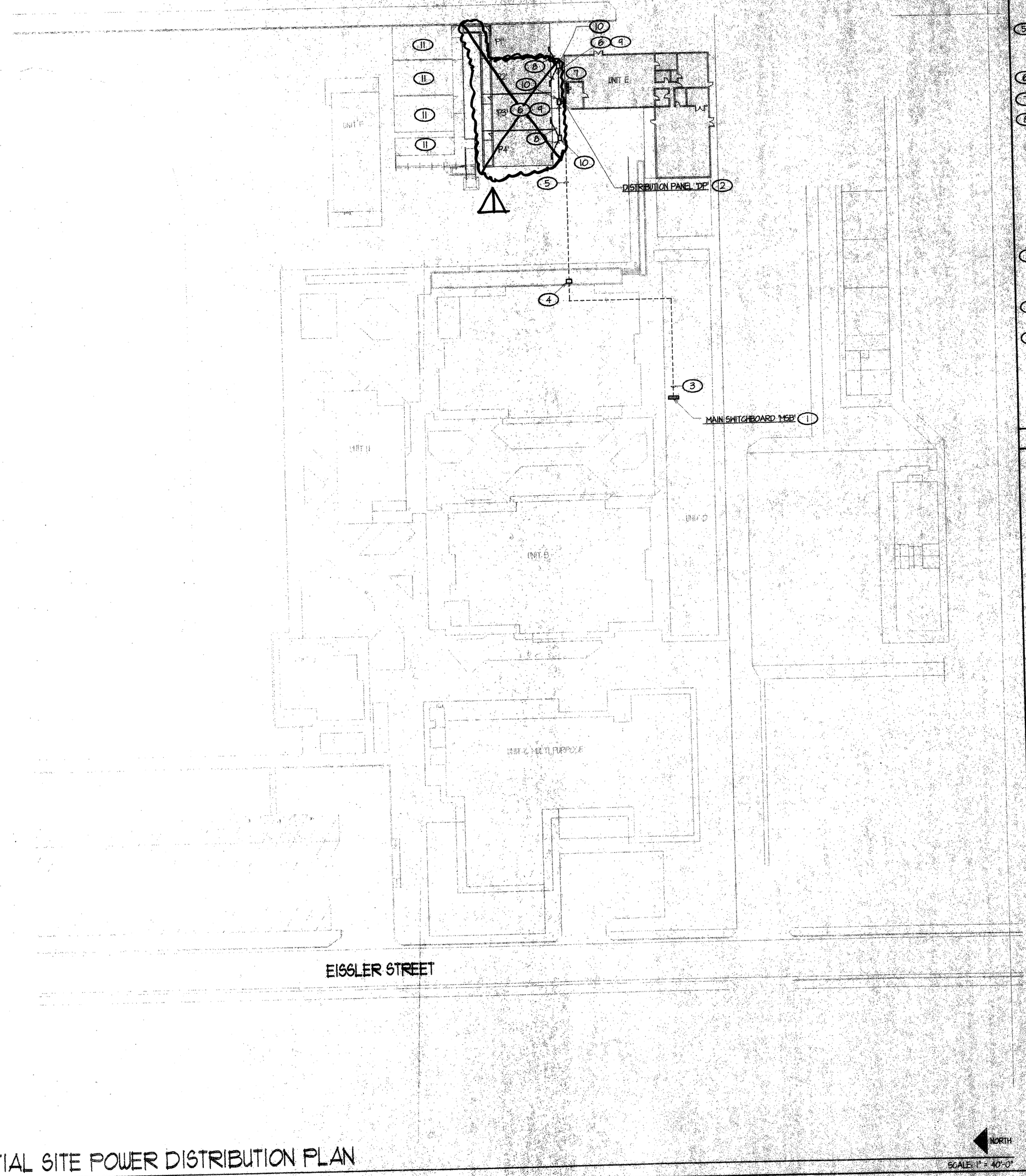

PARTIAL SITE POWER DISTRIBUTION PLAN

SCALE: 1" = 40'-0"

PARTIAL SITE POWER DISTRIBUTION PLAN NOTES

1. EXISTING MAIN SWITCHBOARD 'MSB' TO REMAIN. REFER TO SINGLE LINE DIAGRAM, 4/E-3 FOR WORK REQUIRED AND COORDINATION/REFERENCE.
2. EXISTING DISTRIBUTION PANEL 'DP' TO REPLACED IN PLACE WITH NEW. REMOVE EXISTING AS REQUIRED GIVING OWNER FIRST RIGHT OF REFUSAL PER GENERAL NOTE F, THIS SHEET. PROVIDE NEW DISTRIBUTION PANEL PER SPECIFICATIONS, INSTALL PER 2/E-3 AND CONNECT PER SINGLE LINE DIAGRAM, 4/E-3.
3. EXISTING TWO 3"C. TO REMAIN. REPLACE EXISTING CONDUCTORS WITH NEW 4 #600 KCMIL CU THWN + 1 #1/0 CU GROUND IN EACH CONDUIT. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDUIT ROUTING PRIOR TO BID.
4. EXISTING POWER PULL BOX MOUNTED ON ROOF TO REMAIN. REPLACE EXISTING 3"C. RUNNING DOWN BUILDING WALL WITH NEW 3 1/2"C. AND PROVIDE NEW CONDUCTORS IN EACH CONDUIT PER ITEM (3) ABOVE. CONVERT FROM EMT TO PVC WRAPPED RIGID CONDUIT AT 18" A.F.G. THEN TO PVC AT 18" BELOW GRADE. ATTACH CONDUIT TO BUILDING STRUCTURE PER C.E.C. ARTICLE 346 REQUIREMENTS. CONTRACTOR SHALL FIELD VERIFY ALL.
5. REPLACE EXISTING TWO 3"C. AND FEEDER CONDUCTORS WITH NEW TWO 3 1/2"C. 4 #600 KCMIL CU THWN + 1 #1/0 CU GROUND EACH. SAW CUT EXISTING AC PAVING/CONCRETE AS REQUIRED, BACK FILL TRENCH AND INFILL AREA WITH LIKE MATERIAL SUCH THAT FINISH MATERIAL IS FLUSH WITH EXISTING WHEN CURED/DRY.
6. TWO 1 1/4"C. 3 #2 CU THWN + 1 #6 CU GROUND EACH.
7. FOUR 1 1/4"C. 3#2 CU THWN + 1 #6 GROUND EACH.
8. ONE 1 1/4"C. 3 #2 CU THWN + 1 #6 CU GROUND. RUN POWER FEEDER TO RELOCATABLE CLASSROOM PANEL PROVIDED BY BUILDING MANUFACTURER AND CONNECT POWER PER MANUFACTURER'S WRITTEN INSTRUCTIONS. SAW CUT EXISTING AC PAVING/CONCRETE AS REQUIRED, BACK FILL TRENCH AND INFILL AREA WITH LIKE MATERIAL SUCH THAT FINISH MATERIAL IS FLUSH WITH EXISTING WHEN CURED/DRY. CONTRACTOR SHALL EXERCISE CAUTION IN NEW TRENCHING SO AS TO NOT DISTURB OR DISRUPT EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL FIELD VERIFY ALL. CONVERT FROM PVC TO PVC WRAPPED RIGID CONDUIT 18" BELOW GRADE TO 18" A.F.G. THEN CONTINUE SURFACE MOUNTED ON BUILDING EXTERIOR TO PANEL, ATTACHING CONDUIT TO BUILDING STRUCTURE PER C.E.C. ARTICLE 346 REQUIREMENTS. PROVIDE ALL FITTINGS, CONDULETS, ETC. AS REQUIRED TO CONNECT TO PANEL WHETHER PANEL IS LOCATED INSIDE BUILDING OR MOUNTED TO EXTERIOR WALL AS REQUIRED. CONTRACTOR SHALL FIELD VERIFY ALL.
9. SAW CUT EXISTING AC PAVING/CONCRETE AS REQUIRED, BACK FILL TRENCH AND INFILL AREA WITH LIKE MATERIAL SUCH THAT FINISH MATERIAL IS FLUSH WITH EXISTING WHEN CURED/DRY. CONTRACTOR SHALL EXERCISE CAUTION IN NEW TRENCHING SO AS TO NOT DISTURB OR DISRUPT EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL FIELD VERIFY ALL.
10. PROVIDE NEW UNDERGROUND POWER PULL BOX PER SPECIFICATIONS AND INSTALL PER 4/E-3, TYPICAL WHERE OCCURS, U.O.N.
11. EXISTING RELOCATABLE BUILDINGS TO REMAIN. EXISTING POWER IS CONNECTED TO EXISTING DISTRIBUTION PANEL BEING REPLACED IN PLACE. REFER TO SINGLE LINE DIAGRAM, 4/E-3 FOR CONNECTION TO NEW DISTRIBUTION PANEL AND COORDINATION/REFERENCE.

GENERAL NOTES

A. ALL EXISTING ELECTRICAL INFORMATION SHOWN HEREIN HAS BEEN COMPILED FROM PREVIOUS STATE APPROVED CONSTRUCTION DOCUMENTS AND INFORMATION PROVIDED BY THE OWNER'S FACILITIES PERSONNEL. IT HAS NOT NECESSARILY BEEN PHYSICALLY FIELD VERIFIED BY THIS OFFICE. USE AND APPLICATION OF THIS INFORMATION SHALL BE CONFINED TO THE PROJECT FOR WHICH IT IS INTENDED.

B. ALL EQUIPMENT SHALL HAVE AN INDEPENDENT TESTING LABORATORY LABEL (U.L., C.S.A., ETC.) AS REQUIRED BY C.E.C. ARTICLE 110. PROVIDE EVIDENCE OF COMPLIANCE WITH THIS REQUIREMENT WITH EQUIPMENT SUBMITTALS. CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO ISSUING PURCHASE ORDERS IF EQUIPMENT PROPOSED IS NOT COMPLIANT WITH THIS REQUIREMENT. WHERE FIELD CERTIFIED PRODUCTS MAY BE REQUIRED FOR FIELD ASSEMBLED COMPONENTS, PROVIDE CERTIFIED REPORT BY AN APPROVED TESTING AGENCY ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION. ALL TESTING FEES SHALL BE INCLUDED IN CONTRACTOR'S BID.

C. WORKING CLEARANCES ABOUT ELECTRICAL EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF C.E.C. ARTICLE 110. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WORKING CLEARANCES FOR EQUIPMENT INSTALLED AS PART OF THIS CONTRACT.

D. PROVIDE 1/2" NYLON PULL ROPE IN ALL NEW CONDUIT AND RACEWAY TO ALLOW FUTURE ADDITION OF CONDUCTORS AS REQUIRED, WHETHER OR NOT CONDUCTORS ARE INSTALLED AT THIS TIME.

E. WHERE EXISTING CONDUIT IS BEING REUSED ON THE SITE, NEW CONDUCTORS SHALL BE PULLED CONTINUOUS AND UNSPLICED THROUGH THE EXISTING RACEWAY, RE-PULLING EXISTING CONDUCTORS AS REQUIRED AND PROVIDING A PULL ROPE IN THE EXISTING CONDUIT PER ABOVE.

F. FOR ALL ELECTRICAL EQUIPMENT BEING REMOVED, PROVIDE THE OWNER WITH THE FIRST RIGHT OF REFUSAL. IF OWNER EXERCISES THE FIRST RIGHT, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL SUCH REFUSED EQUIPMENT COMPLETE AND IN A PROPER MANNER.

G. RELOCATABLE CLASSROOM MANUFACTURER SHALL PROVIDE AND INSTALL ALL ELECTRICAL CONDUIT, OUTLET, LIGHTING, PANELS AND TERMINAL CABINETS AS SHOWN ON THE RELOCATABLE CLASSROOM BUILDING MANUFACTURER'S BUILDING DRAWINGS.

H. RELOCATABLE BUILDING MANUFACTURER SHALL PROVIDE AND INSTALL 4S JUNCTION BOXES WITH SINGLE GANG PLASTER RINGS FOR COMMUNICATION AND FIRE ALARM SYSTEM OUTLETS.

I. CONTRACTOR SHALL SUPPLY ALL BACK BOXES FOR CLOCK AND SPEAKER OUTLETS, INSTALL ALL SIGNAL SYSTEMS DEVICES AND WIRING AND CONNECT SAME PER ELECTRICAL DRAWINGS AND SPECIFICATIONS.

J. CONTRACTOR SHALL USE JUNCTION AND PULL BOXES PROVIDED BY THE RELOCATABLE BUILDING MANUFACTURER TO THE FULLEST EXTENT POSSIBLE. WHEN NOT POSSIBLE, NEW JUNCTION AND/OR PULL BOXES SHALL BE PROVIDED AT LOCATIONS ON THE BUILDING ELECTRICAL FLOOR PLAN DRAWINGS.

K. PROVIDE FLEXIBLE CONDUIT CONNECTION BETWEEN BUILDING MODULES, TYPICAL WHERE BUILDING MODULE LINES OCCUR. CONTRACTOR SHALL VERIFY EXACT LOCATIONS WITH RELOCATABLE BUILDING MANUFACTURER.

L. WHERE SURFACE MOUNTED RACEWAY IS REQUIRED WITHIN THE RELOCATABLE CLASSROOM BUILDING, USE SURFACE METAL RACEWAY, WIREMOLD #700 SERIES OR APPROVED EQUAL. VERIFY ANY SURFACE RACEWAY ROUTING AND FINISH WITH THE ARCHITECT PRIOR TO ORDERING MATERIALS AND COMMENCING ROUGH IN WORK.

M. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL ROUGH-IN, POWER CONNECTION AND SITE DISTRIBUTION REQUIREMENTS PRIOR TO COMMENCING CONSTRUCTION AND RELOCATABLE BUILDING MANUFACTURER AND/OR RELOCATABLE BUILDING MANUFACTURER'S BUILDING DRAWINGS.

N. CONTRACTOR SHALL WARRANTY ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE OF WORK BY OWNER.

CODES, RULES & REGULATIONS

ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST REGULATIONS OF THE STATE FIRE MARSHAL, CALIFORNIA CODE OF REGULATIONS, GOVERNING UTILITY COMPANIES AND OTHER APPLICABLE STATE ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED AS 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 SYMBOL SCHEDULE

DIMENSIONS INDICATED ARE INTENDED TO CONFORM TO CBC CODES, UNLESS OTHERWISE NOTED. NOTE: SOME SYMBOLS SHOWN MAY NOT APPLY TO THIS PROJECT

SYMBOL	DESCRIPTION	NOTES
(2)-A(100)	DENOTES LIGHTING FIXTURE CIRCUIT, FIXTURE TYPE AND FIXTURE WATTAGE	
U.G.	DENOTES UNDERGROUND INSTALLATION	
W.P.	WEATHERPROOF	
A.F.F.	DENOTES ABOVE FINISHED FLOOR	
U.O.N.	UNLESS OTHERWISE NOTED	
(1)	ELECTRICAL KEYNOTE #1. REFER TO NOTES ON SAME SHEET.	
	HOME RUN 3/4" C. MINIMUM. (DENOTES PANEL A, CIRCUIT 10).	
	CONDUIT RUN IN WALL OR ATTIC (1/2" C. - 2 #12 AWG THWN + 1 #12 GND)	
	CONDUIT RUN IN FLOOR OR U.G. (1/2" C. - 2 #12 AWG THWN + 1 #12 GND)	(1)
	CONDUIT RUN: DENOTES 1/2"C. - 3 #12 AWG CU THWN + 1 #12 CU GND	(1)
	ELECTRICAL PANELBOARD PER PLANS, FLUSH MOUNTED IN WALL	
	ELECTRICAL PANELBOARD PER PLANS, SURFACE MOUNTED ON WALL	
J	JUNCTION BOX PROVIDED BY BUILDING MANUFACTURER, U.O.N.	
J	JUNCTION BOX PER PLANS.	
	UNDERGROUND SYSTEMS PULL BOX PER PLANS.	
IC	INTERCOM HANDSET PER PLANS.	
TV	TELEVISION OUTLET, +18" A.F.F., U.O.N.	
S	SURFACE MOUNTED INTERCOM SPEAKER PER PLANS.	
	FIRE ALARM MASTER CONTROL PANEL PER PLANS.	
F	FIRE ALARM MANUAL PULL STATION, +48" A.F.F., U.O.N.	
SD	FIRE ALARM SMOKE DETECTOR ON CEILING, U.O.N.	
DD	FIRE ALARM DUCT SMOKE DETECTOR IN AIR CONDITIONING DUCT.	
V	FIRE ALARM VISUAL ALARM UNIT @ +80" MINIMUM, U.O.N.	
AV	FIRE ALARM HORN/STROBE ALARM UNIT @ +80" MINIMUM, U.O.N.	
H	FIRE ALARM HORN, MOUNTED ON CEILING, U.O.N.	
H	FIRE ALARM MINI-HORN, MOUNTED ON CEILING, U.O.N.	
S	EXTERIOR SPEAKER @ +10'-0", U.O.N.	
E.O.L.	FIRE ALARM SIGNALLING CIRCUIT END OF LINE RESISTOR LOCATED AT THE FIRE ALARM MASTER PANEL, U.O.N.	

NOTES

(1) ALL UNDERGROUND SITE CONDUIT SHALL BE MINIMUM 3/4"C. UNLESS NOTED OTHERWISE.

(2) REFER TO SHEET E-4 FOR FIRE ALARM DEVICE SCHEDULE

LICENSED ARCHITECT DANNY E. ORDIZ No. C-16835 EXP. 6/30/07 STATE OF CALIFORNIA

MAY 31 2015 RENEWAL DATE

APPROVED
DIVISION OF THE STATE ARCHITECT
LOS ANGELES REGIONAL OFFICE
DATE 2/12/2015

ELECTRICAL DRAWING INDEX

SHEET NUMBER	SHEET TITLE
E-1	PARTIAL SITE POWER DISTRIBUTION PLAN
E-2	PARTIAL SITE SIGNAL DISTRIBUTION AND BUILDING SIGNAL PLANS
E-3	SINGLE LINE DIAGRAM
E-4	FIRE ALARM SINGLE LINE DIAGRAM, DETAIL CALCULATIONS
E-5	MATERIAL SPECIFICATIONS

REGISTERED PROFESSIONAL ENGINEER ROBERT W. WATERS No. E 14578 Exp. 6/30/07 ELECTRICAL STATE OF CALIFORNIA

WE
WATERS ENGINEERING
Consulting Electrical Engineer
3040 North Fresno, Suite 15
Visalia, California 93277
Telephone (559) 739-4135
Facsimile (559) 739-4136
E-mail: rwaters@sbcglobal.net

#2004-82

ORDIZ MELBY ARCHITECTS, INC.
2000 MING AVENUE SUITE 260
BAKERSFIELD, CALIFORNIA 93309
TELEPHONE (661) 833-5258
FACSIMILE (661) 832-4291

LICENSED ARCHITECT DANNY E. ORDIZ No. C-16835 DEC. 31 2006 RENEWAL DATE STATE OF CALIFORNIA

DANNY E. ORDIZ, A.I.A.
ARCHITECT C-16,728
WILLIAM J. MELBY, A.I.A.
ARCHITECT C-16,835

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL # 01-108677
FILE # 15-6
AC FLS CO SS
DATE JUL 8 2005

PTN:63321-50

SITE IMPROVEMENTS
PORTABLE CLASSROOMS
AT
CHIPMAN JUNIOR HIGH SCHOOL

BAKERSFIELD CITY SCHOOL DISTRICT

EISSLER STREET
BAKERSFIELD, CALIFORNIA
93306

MARK	DATE	DESCRIPTION
SD		
CD		
1	01-13-15	CCD #01
2		
3		
4		

JOB NUMBER:
2004771
CAD DRAWING FILE:
2004-82-E-1.DWG
DRAWN BY:
DAJ
CHECKED BY:
VWW

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT.

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SHEET TITLE

PARTIAL SITE POWER DISTRIBUTION PLANS

SHEET IDENTIFICATION NUMBER

E-1

SHEET OF

XLV@$104Q2004-8X2004-82Q2004-82-E-1 DAJ/AAM 01/22/05