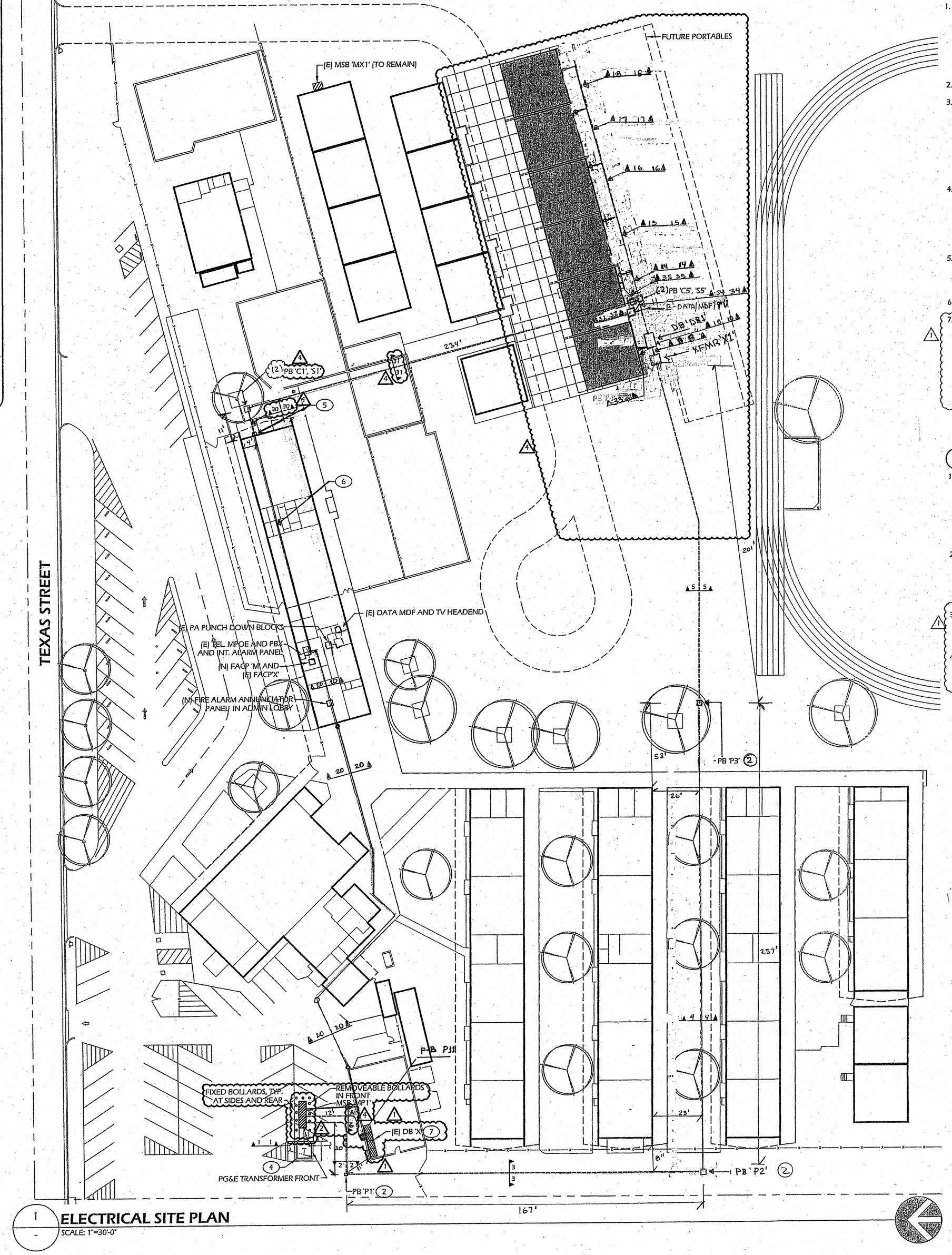
TRENCHING AND EXCAVATION NOTES

1. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CALL UNDERGROUND SERVICE ALERT "USA" BEFORE THE COMMENCEMENT OF ANY EXCAVATION. EACH CONTRACTOR SHALL HAVE THEIR OWN USA TICKET NUMBER FOR EACH PROJECT LOCATION AND SHALL NOT RIDE ON ANY OTHER CONTRACTORS TICKET. CONTRACTOR SHALL NOTIFY THE OWNER 72 HOURS PRIOR TO EXCAVATION.
2. THIS CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING NECESSARY FOR THE INSTALLATION OF EQUIPMENT AND MATERIALS. ALL PATCHING SHALL ACCURATELY MATCH THE ADJOINING WORK.
3. THIS CONTRACTOR SHALL DO EXCAVATING REQUIRED FOR THE INSTALLATION OF THE WORK. UNDERGROUND LINES OUTSIDE THE BUILDINGS SHALL BE INSTALLED WITH A MINIMUM OF 24" OF COVER, EXCEPT DEPTH OF UTILITY SERVICES SHALL COMPLY WITH RESPECTIVE UTILITY COMPANY REQUIREMENTS.
4. BEFORE COMPACTION, MOISTEN OR AERATE EACH LAYER AS NECESSARY TO PROVIDE OPTIMUM MOISTURE CONTENT. COMPACT EACH LAYER TO REQUIRED PERCENTAGE OF MAXIMUM DRY DENSITY OR RELATIVE DRY DENSITY FOR EACH AREA CLASSIFICATION. DO NOT PLACE BACKFILL OR FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST OR ICE.
5. STRUCTURES, BUILDING SLABS, WALKWAYS, AND STEPS: COMPACT TOP 6" OF SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL AT 92% MAXIMUM RELATIVE COMPACTION.
6. COMPACT TOP 6" OF SUBGRADE MATERIAL AT 85% RELATIVE COMPACTION.
7. COMPACT TOP 6" OF SUBGRADE IMMEDIATELY BENEATH THE BASE COURSE AT 95% MINIMUM RELATIVE COMPACTION.
8. ANY SURPLUS EXCAVATION RESULTING FROM THESE EXCAVATIONS SHALL BE HAULED OFF.
9. AFTER ALL TRENCHES HAVE BEEN TAMPED IN, RAKE OUT ALL HIGH AND LOW AREAS ALONG THE TRENCH LINE. ALL CLODS AND SOLID ROCKS EXPOSED ON THE SURFACE AS A RESULT OF THE EXCAVATION SHALL BE BROKEN DOWN AND OR CLEANED UP. ALL TRENCH LINES SHALL BE RAKED LEVEL WITH EXISTING GRADE.
10. ELECTRICAL CONDUIT SHALL NOT BE RUN IN EXCAVATIONS PROVIDED FOR PLUMBING OR HEATING PIPES, UNLESS SEPARATED BY A MINIMUM OF 12 INCHES.
11. PATCH ALL TRENCHED AREAS TO MATCH EXISTING.
12. HAND EXCAVATE IN AREAS WHERE TRENCHING IS DIFFICULT DUE TO STRUCTURAL OBSTRUCTIONS OR EXISTING UNDERGROUND CONDUIT.



1 ELECTRICAL SITE PLAN
SCALE: 1"=30'-0"

SHEET NOTES

1. PROVIDE NEMA 4 ENCLOSURE WITH A 3/4" PLYWOOD BACKBOARD, PAINT BACKBOARD WITH FIRE RESISTANT PAINT. PROVIDE TWO QUAD RECEPTACLES WITHIN ENCLOSURE AND CONNECT EACH TO A DEDICATED CIRCUIT WITHIN NEAREST 120V PANEL. PROVIDE (4) 2" C FROM THE TOP OF THE NEMA 3R ENCLOSURE TO TWO 18"x18"x10" DEEP HINGED WIREWAYS LOCATED ABOVE THE INTERIOR CEILING T-BAR LEVEL . PROVIDE (4) 2" C NIPPLES FROM THE WIREWAYS TO THE INTERIOR ATTIC SPACE.
2. PULLBOXES SHALL BE TRAFFIC RATED.
3. TYPICAL PROVIDE (3) 2" FLEXIBLE CONDUIT NIPPLES BETWEEN THE ATTIC SPACES OF ALL PORTABLE BUILDINGS AT ALL LOCATIONS ON THE SITE. CONTRACTOR SHALL WIRE THROUGH AND CONNECT ALL PORTABLES. THIS METHOD OF WIRING SHALL BE USED AND LISTED WITHIN THE BASE ELECTRICAL BID. CONTRACTOR SHALL PROVIDE SEPARATE COST IN THEIR BID FOR NOT ROUTING CABLING THROUGH EACH PORTABLE BUT ROUTING THE CABLING WITHIN THE EXTERIOR CONDUIT RACEWAYS SO AS NOT TO LOOP CABLING THROUGH SUCCESSIVE ADJACENT PORTABLES.
4. COORDINATE WITH PG&E. DISCONNECT AND REMOVE THE EXISTING TRANSFORMER AND TRANSFORMER PAD. PROVIDE NEW CONDUITS TO THE NEW METER MAIN INDICATED. PROVIDE A NEW 90"x106"x8" DEEP CONCRETE PAD PER PG&E REQUIREMENTS. COORDINATE WITH THE THE SCHOOL DISTRICT FOR POWER SHUT DOWN. CONTRACTOR SHALL OBTAIN THE RULE-16 DRAWINGS FROM THE PG&E PRIOR TO ORDERING A NEW CONCRETE PAD.
5. PROVIDE 18"x18"x10" DEEP HINGED WEATHERPROOF WIREWAY MOUNTED UP HIGH AND ABOVE THE INTERIOR CEILING LEVEL. PROVIDE (6) 1-½" C NIPPLES FROM THE WIREWAY TO TO THE INTERIOR ATTIC SPACE.
6. RUN CABLES ON J-HOOKS WITHIN ATTIC SPACE.
7. DISCONNECT AND REMOVE EXISTING UGPS. PROVIDE AND INSTALL TWO NEW WIREWAYS/J-BOXES AS INDICATED PER THE SINGLE LINE DIAGRAM. WIREWAYS (SHOWN AS THICKER LINETYPE), REFER TO SINGLE LINE DIAGRAM. CONTRACTOR TO CAREFULLY EXCAVATE UNDER MECHANICAL YARD MASONRY WALL AND INSTALL CONDUIT FEEDERS TO EXISTING BOARD VIA WIREWAYS.

GENERAL NOTES

1. SUBSURFACE BORING SHALL BE CONSIDERED AN ACCEPTABLE ALTERNATIVE TO CUTTING AND PATCHING EXISTING PAVING SURFACES. IF SUBSURFACE BORING IS UTILIZED, THE BORING PROCEDURE MUST BE PRE-APPROVED WITH THE ARCHITECT PRIOR TO COMMENCING ANY SUBSURFACE BORING OPERATIONS. IF DIRECTIONAL BORING IS CHOSEN, THE CONTRACTOR SHALL INVESTIGATE PRIOR TO DIRECTIONAL BORING SO THAT ANY EXISTING UTILITIES ARE NOT DAMAGED.
2. PROVIDE (1)12"x12"x8"DEEP POWER J-BOX, (1)12"x12"x8" DEEP SIGNAL J-BOX, AND (1)12"x12"x8" DEEP COMMUNICATION J-BOX BEHIND EACH RELOCATABLE. ALL J-BOXES SHALL HAVE A HINGED COVER AND BE WEATHERPROOF. MOUNT SIGNAL AND COMMUNICATIONS BOXES UP HIGH ABOVE THE INTERIOR T-BAR LEVEL. PROVIDE (3) 2" C NIPPLES FORM EACH BOX TO THE INTERIOR ATTIC SPACE.
3. CONTRACTOR SHALL MOVE POSITION OF EQUIPMENT ALONG PORTABLE BUILDING WALL IF THE EQUIPMENT WILL BE ON TOP OF A VENT WHEN PLACED WHERE SHOWN. COORDINATE WITH CIVIL SO EQUIPMENT DOES NOT IMPEDE WATER DRAINAGE.
4. JOINT TRENCH WITH OTHER SITE CONDUIT IS ACCEPTABLE AS LONG AS ELECTRICAL IS 3 FEET AWAY FROM OTHER UTILITIES. OBTAIN PERMISSION FROM THE DISTRICT AND CIVIL ENGINEER PRIOR TO INSTALLING CONDUIT IN A JOINT TRENCH.

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Mark	Description	Date
1	ADDENDUM 1	12/21/2010
2	ADDENDUM 2	01/19/2010
3	ADDENDUM 3	03/11/2010

Sheet Title: ELECTRICAL SITE PLAN

Project Name & Address: FREMONT MAGNET ELEM. SCHOOL
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Release: ~~ADDENDUM 1~~

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