

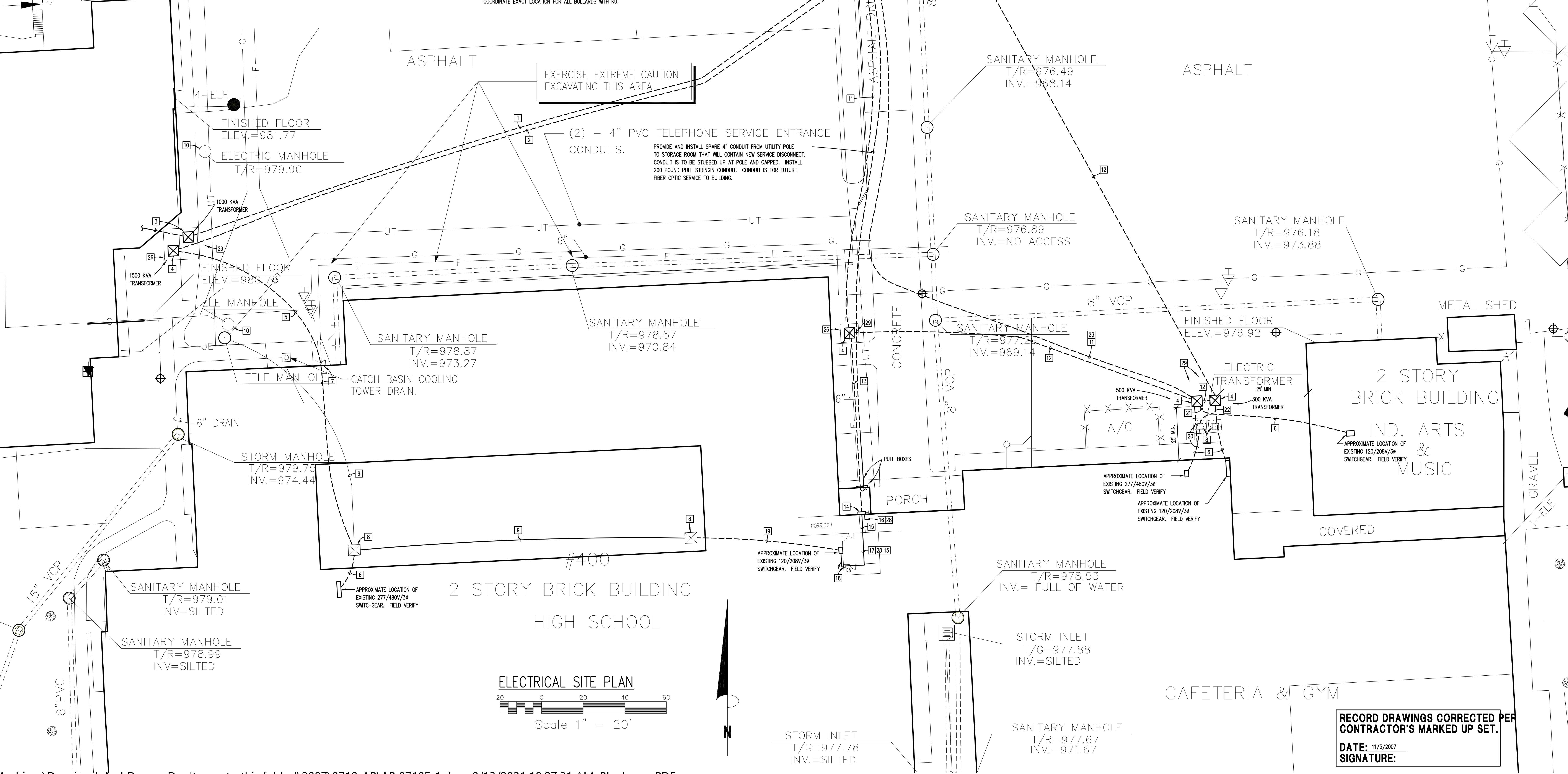
**GENERAL NOTES:**

1. ALL NEW UNDERGROUND PRIMARY ELECTRIC CONDUITS SHALL BE RUN WITH LONG, GRADUAL BENDS TO AVOID REQUIREMENT OF INTERMEDIATE PULL BOXES. COORDINATE INSTALLATION WITH KU COMPANY. IF INTERMEDIATE PULL BOXES ARE REQUIRED, THEY SHALL BE FLUSH TO GRADE SURFACE WITH DRIVE-OVER LIDS AND SHALL MEET ALL KU REQUIREMENTS.
2. AFTER WORK, PATCH ALL PARKING AREAS, DRIVES, PAVED AREAS, FLOORS, ETC. TO MATCH EXISTING ADJACENT SURFACES. SEE STREET AND ROADS PAVING REPLACEMENT DETAIL ON SHEET E-2.
3. AFTER WORK, SEED ALL DISTURBED SOILS IN GRASSY AREAS TO MATCH ADJACENT AREAS. COVER WITH STRAW FOR PROTECTION.
4. SEE SHEET E-2 FOR ADDITIONAL DETAILS AND INFORMATION.
5. CONTRACTOR SHALL VERIFY EXISTING CONDUIT SIZES WHERE CONDUITS SHALL BE REUSED PRIOR TO PURCHASING CONDUCTORS.
6. CONTRACTOR SHALL VERIFY EXISTING SWITCHGEAR LUS SIZES AND MODIFY/REPLACE AS REQUIRED TO ACCEPT NEW SECONDARY CONDUCTORS.
7. CONTRACTOR SHALL LAY CONDUIT IN TRENCH AND BACK FILL TRENCH AS WORK PROCEEDS TO MINIMIZE LENGTH OF OPEN TRENCH AT ANY ONE TIME. ALL OPEN TRENCH MUST BE FENCED, COVERED, OR OTHERWISE PROTECTED TO PROTECT THE SAFETY OF PEOPLE AT THE SITE.
8. NO ELECTRICAL SERVICE SHALL BE SHUT DOWN EXCEPT DURING NIGHTS AND WEEKENDS. ALL OUTAGES MUST BE SCHEDULED WITH OWNER/ENGINEER AT LEAST SEVEN DAYS AHEAD OF TIME. NO ELECTRICAL SERVICE SHALL BE SHUT DOWN UNTIL ALL MATERIAL AND EQUIPMENT IS IN PLACE FOR WORK THAT MUST BE PERFORMED DURING OUTAGE.
9. CONTRACTOR IS RESPONSIBLE FOR SWITCHING HIGH VOLTAGE SYSTEM OFF AND ON FOR ALL REQUIRED OUTAGES. NEITHER THE OWNER NOR KU WILL PROVIDE SWITCHING OF HIGH VOLTAGE SYSTEM AS REQUIRED. KU WILL NOT COORDINATE PHASING AT TRANSFORMER WITH EXISTING MOTORS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROPER PHASING FOR EXISTING MOTORS AND ARRANGING SECONDARY CONDUCTOR TERMINATIONS AS REQUIRED. THIS INCLUDES SERVICES WHERE A NEW SECONDARY IS TO BE INSTALLED AND SERVICES THAT WILL USE EXISTING SECONDARY.
10. TRENCHES SHALL BE OPEN FOR MINIMAL AMOUNT OF TIME DUE TO SAFETY ISSUES. CONTRACTOR WILL BE ASKED TO CONCENTRATE TRENCHING WORK AT ONE TIME TO MINIMIZE LENGTH OF TIME TRENCHES WILL BE OPEN.
11. WORK IN THE PARKING LOT BETWEEN THE LOUIE MAC BUILDING AND LAFAYETTE HIGH SCHOOL IS TO BE COMPLETED FIRST TO CLEAR ROOM IN THE PARKING LOT FOR BAND PRACTICE IN J.U.L.Y.

**SHEET NOTES:**

1. TWO 4" SCH. 40 PVC CONDUITS IN TRENCH. MINIMUM BURY SHALL BE 42". CONDUITS SHALL HAVE LONG SWEEP SCH. 80 ELBOWS. INSTALL 200 LB PULL STRING IN EACH CONDUIT. CAP ONE CONDUIT AT BASE OF UTILITY POLE FOR A SPARE AND MAST OTHER UP POLE PER KENTUCKY UTILITY CO. REQUIREMENTS. TERMINATE BOTH CONDUITS IN PRIMARY SECTION OF TRANSFORMER PER KU REQUIREMENTS.
2. TWO 6" SCH. 40 PVC CONDUITS IN TRENCH. MINIMUM BURY SHALL BE 42". CONDUITS SHALL HAVE LONG SWEEP SCH. 80 ELBOWS. INSTALL 200 LB PULL STRING IN EACH CONDUIT. CAP ONE CONDUIT AT BASE OF UTILITY POLE FOR A SPARE AND MAST OTHER UP POLE PER KENTUCKY UTILITY CO. REQUIREMENTS. TERMINATE BOTH CONDUITS IN PRIMARY SECTION OF TRANSFORMER PER KU REQUIREMENTS.
3. NEW TRANSFORMER FOR S.C.A.P.A. SHALL BE SET ON SAME PAD AS EXISTING TRANSFORMER. RECONNECT EXISTING SECONDARY CONDUCTORS TO NEW TRANSFORMER. REWORK SECONDARY CONDUITS/CONDUCTORS AS REQUIRED. THIS TRANSFORMER FEEDS TWO SECONDARIES. ONE CONSISTS OF FOUR PARALLEL RUNS OF 3-600 MCM AND 1-200 MCM IN 3" C. SECOND SECONDARY CONSISTS OF 4#2 IN 1" C. RECONNECT BOTH SECONDARIES AND PROVIDE METERING AND GROUNDING FOR EACH SERVICE PER DETAIL ON SHEET E-2.
4. NEW TRANSFORMER TO BE SET ON NEW PAD. PROVIDE METERING AND GROUNDING PER DETAIL ON SHEET E-2.
5. NEW UNDERGROUND SECONDARY TO FEED EXISTING 2000A/480V/3# SERVICE. ROUTE FIVE PARALLEL RUNS OF 4" C. WITH 4-600 MCM IN EACH CONDUIT FROM NEW TRANSFORMER LOCATION TO EXISTING SWITCHGEAR AND RECONNECT. MINIMUM BURY SHALL BE 30".
6. REMOVE EXISTING SECONDARY CONDUCTORS FROM EXISTING CONDUITS. REUSE EXISTING CONDUITS TO ROUTE NEW SECONDARY CONDUCTORS INTO EXISTING SWITCHGEAR AND RECONNECT.
7. ROUTE NEW UNDERGROUND SECONDARY BELOW GRADE THROUGH BREEZEWAY. TEMPORARILY REMOVE MULLION FROM DOORS TO ALLOW TRENCHING AND REINSTALL MULLION WHEN WORK IS COMPLETE.
8. DISCONNECT AND REMOVE EXISTING TRANSFORMER. TRANSFORMER SHALL BE MOVED BY CONTRACTOR TO A LOCATION ON THE CAMPUS AS DESIGNATED BY THE OWNER. DEMOLISH AND REMOVE TRANSFORMER PAD. PATCH/REPAIR CONCRETE AT PAD OPENINGS. WHERE PAD RESTS ON SOIL, BACKFILL WITH TOP SOIL TO LEVEL GRADE AND SEED AND STRAW.
9. EXISTING PRIMARY CONDUCTORS TO BE REMOVED BY KU COMPANY.
10. EXISTING MANHOLE WILL BE ABANDONED BY KU COMPANY. ONCE MANHOLE IS COMPLETELY ABANDONED, FILL WITH CRUSHED STONE.
11. ONE 4" SCH. 40 PVC CONDUIT IN TRENCH. MINIMUM BURY SHALL BE 42". CONDUIT SHALL HAVE LONG SWEEP SCH. 80 ELBOWS. INSTALL 200 LB PULL STRING IN CONDUIT. MAST UP UTILITY POLE PER KU CO. STANDARDS. ROUTE TO PRIMARY SECTION OF TRANSFORMER PER KU REQUIREMENTS.
12. ONE 4" SCH. 40 PVC CONDUIT IN TRENCH. MINIMUM BURY SHALL BE 42". CONDUIT SHALL HAVE SCH. 80 LONG SWEEP ELBOWS. INSTALL 200 LB PULL STRING IN CONDUIT. ROUTE CONDUIT FROM PRIMARY SECTION OF ONE TRANSFORMER TO PRIMARY SECTION OF NEXT TRANSFORMER PER KU REQUIREMENTS.
13. NEW UNDERGROUND SECONDARY TO FEED EXISTING 208V/3# SERVICE. ROUTE THREE PARALLEL RUNS OF 4" C. WITH 4-500 MCM IN EACH CONDUIT FROM NEW TRANSFORMER LOCATION TO EXISTING SWITCHGEAR AND RECONNECT. MINIMUM BURY SHALL BE 30".

14. PROVIDE AND INSTALL NEW 800A/3P/240V/SERVICE ENTRANCE RATED DISCONNECT IN STORAGE ROOM. PROVIDE #2/0 GND. PER NEC.
15. ROUTE TWO PARALLEL RUNS OF 3" C. WITH 4-500 MCM AND 1#3 GND. IN EACH CONDUIT CONCEALED ABOVE CEILING TO EXISTING SWITCHGEAR.
16. ROUTE CONDUITS AS HIGH AS POSSIBLE ACROSS CORRIDOR. CONSTRUCT A METAL STUD AND 9" GYPSUM BOARD SOFFIT TO CONCEAL NEW CONDUITS ACROSS CEILING.
17. ROUTE CONDUITS ABOVE EXISTING CEILING. REMOVE ONLY WIDTH OF CEILING AS REQUIRED FOR INSTALLATION OF NEW CONDUITS. PATCH AND REPAIR CEILING AFTER CONDUIT INSTALLATION TO MATCH EXISTING ADJACENT CEILING SURFACE.
18. ROUTE CONDUITS DOWN WALL TO AN ELEVATION WHERE A WALL PENETRATION CAN BE MADE. THEN PENETRATE WALL AND ROUTE CONDUITS/CONDUCTORS TO EXISTING SWITCHGEAR AND CONNECT. PATCH WALL.
19. DISCONNECT, REMOVE, AND PROPERLY DISPOSE OF EXISTING SECONDARY CONDUCTORS. DISCONNECT, REMOVE, AND PROPERLY DISPOSE OF ANY EXPOSED ABANDONED SECONDARY CONDUITS INSIDE THE BUILDING.
20. NEW UNDERGROUND SECONDARY TO FEED EXISTING 800A/480V/3# SERVICE. ROUTE TWO PARALLEL RUNS OF 3" C. WITH 4-500 MCM IN EACH CONDUIT FROM NEW TRANSFORMER LOCATION TO EXISTING SWITCHGEAR AND RECONNECT. MINIMUM BURY SHALL BE 30".
21. NEW UNDERGROUND SECONDARY TO FEED EXISTING 1000A/480V/3# SERVICE. ROUTE THREE 3" C. WITH 4-500 MCM IN EACH CONDUIT FROM NEW TRANSFORMER LOCATION TO EXISTING SWITCHGEAR AND RECONNECT. MINIMUM BURY SHALL BE 30".
22. NEW UNDERGROUND SECONDARY TO FEED EXISTING 208V/3# SERVICE. ROUTE THREE 4" C. WITH 4-500 MCM IN EACH CONDUIT FROM NEW TRANSFORMER LOCATION TO EXISTING SWITCHGEAR AND RECONNECT. MINIMUM BURY SHALL BE 30".
23. INDICATED CONDUIT SHALL BE A SPARE FOR FUTURE USE.
24. NEW UNDERGROUND SECONDARY TO FEED EXISTING 208V/3# SERVICE. ROUTE TWO 3" C. WITH 4-500 MCM IN EACH CONDUIT FROM NEW TRANSFORMER LOCATION TO EXISTING SWITCHGEAR AND RECONNECT. MINIMUM BURY SHALL BE 30".
25. ONE 4" SCH. 40 PVC CONDUIT IN TRENCH. MINIMUM BURY SHALL BE 42". CONDUIT SHALL HAVE LONG SWEEP SCH. 80 ELBOWS. INSTALL 200 LB PULL STRING IN CONDUIT. MAST UP UTILITY POLE PER KU CO. STANDARDS. ROUTE TO PRIMARY SECTION OF TRANSFORMER PER KU REQUIREMENTS.
26. CONTRACTOR SHALL BUILD PROTECTION WALL AROUND TRANSFORMER(S) PER DETAIL ON SHEET E-2. AT THE ONE LOCATION WHERE THE WALL ENCLOSES TWO TRANSFORMERS, WALL SHALL EXTEND TO AN ELEVATION OF 6" ABOVE SECOND FLOOR OF ADJACENT BUILDING.
27. THERE EXISTING ONE 120V CIRCUIT FROM A PANELBOARD IN INDICATED TRANSFORMER TO A SUMP PUMP IN ADJACENT MANHOLE. WHEN MANHOLE IS ABANDONED, DISCONNECT AND REMOVE CONDUCTORS FROM THIS ENTIRE CIRCUIT. REMOVE ABANDONED CONDUIT.
28. PRIME AND PAINT (TWO COATS OF PAINT) NEW SOFFIT AND PATCHED CEILING AREA. PAINT COLOR WILL BE PROVIDED DURING SHOP DRAWING PHASE. PAINT SHALL BE FLAT LATEX WITH COLOR PROVIDED BY OWNER.
29. PROVIDE AND INSTALL TWO BOLLARDS IN FRONT OF TRANSFORMERS. BOLLARDS SHALL BE 6" PIPE FILLED WITH CONCRETE, SET 42" BELOW GRADE IN MIN. 12" ROUND CONCRETE BASE, AND EXTENDING MIN. 42" ABOVE GRADE. COORDINATE EXACT LOCATION FOR ALL BOLLARDS WITH KU.



Revisions	
Number	By

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LAFAYETTE HIGH SCHOOL  
 ELECTRICAL SERVICE UPGRADE  
 KENTUCKY  
 LEXINGTON

ELECTRICAL SITE PLAN

Drawn	CADD
Check	WAT
Scale	AS NOTED
Date	4/2007
Job No.	07010
BG. No.	07-207

Sheet  
**E-1**

RECORD DRAWINGS CORRECTED PER CONTRACTOR'S MARKED UP SET.  
 DATE: 11/5/2007  
 SIGNATURE: