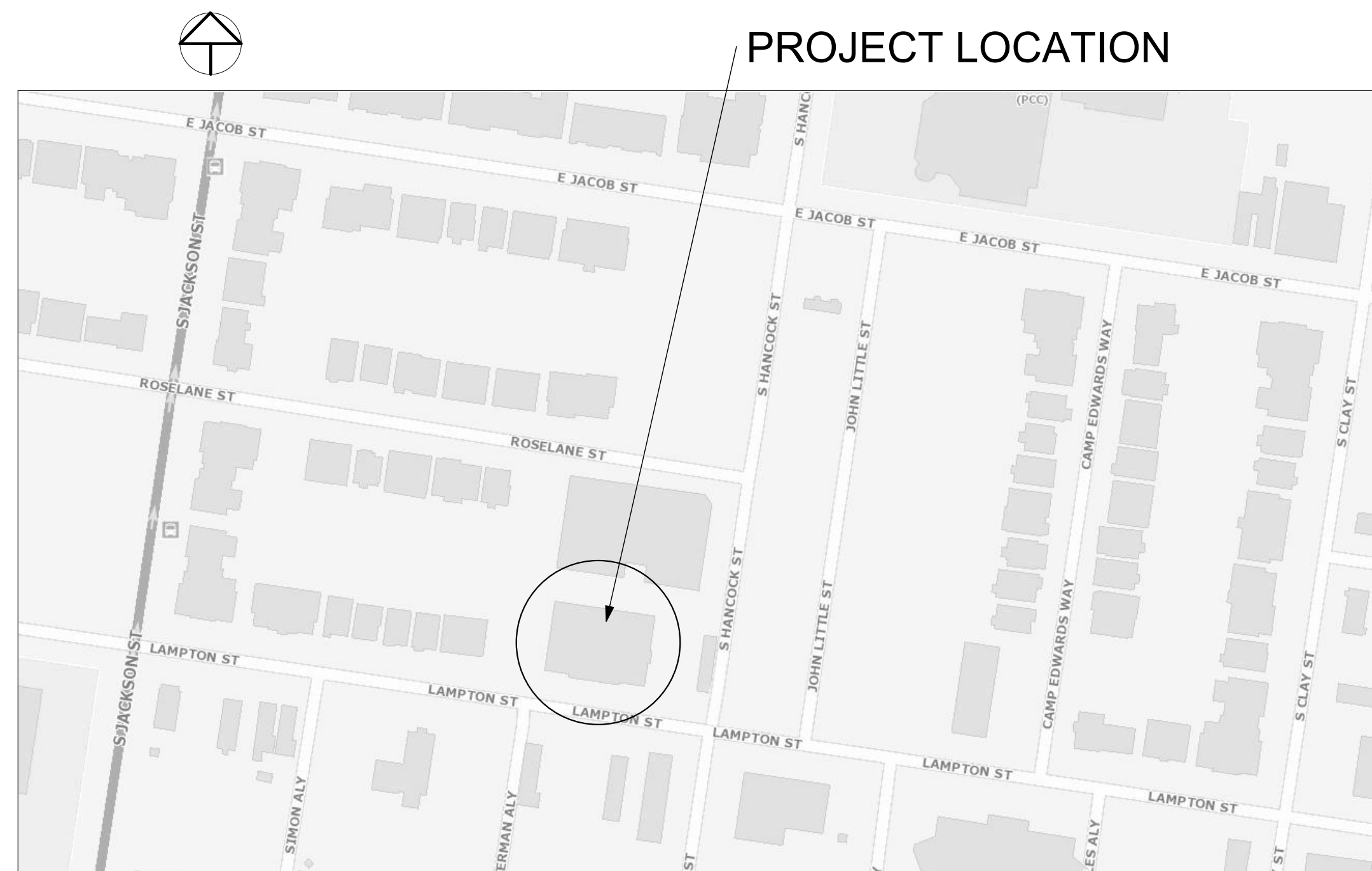


# SANITARY SEWER MODIFICATIONS 760 SOUTH HANCOCK STREET

PROPOSAL  
1502



LOUISVILLE METRO HOUSING AUTHORITY  
420 SOUTH EIGHTH STREET  
LOUISVILLE, KENTUCKY 40203  
(502) 569-3400



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- CP COVER
- P1.0 PLUMBING - NOTES AND RISER
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SANITARY SEWER MODIFICATIONS  
760 SOUTH HANCOCK STREET

DRAWN BY / CHECKED BY

DATE  
06/27/19

PROJECT NUMBER  
19002

REVISED

SHEET TITLE  
COVER PAGE

DRAWING NUMBER  
CP

PLUMBING SPECIFICATIONS

1. GENERAL

ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. UTILITIES SHALL ALSO BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.

2. PIPES, FITTINGS AND PIPE SUPPORT

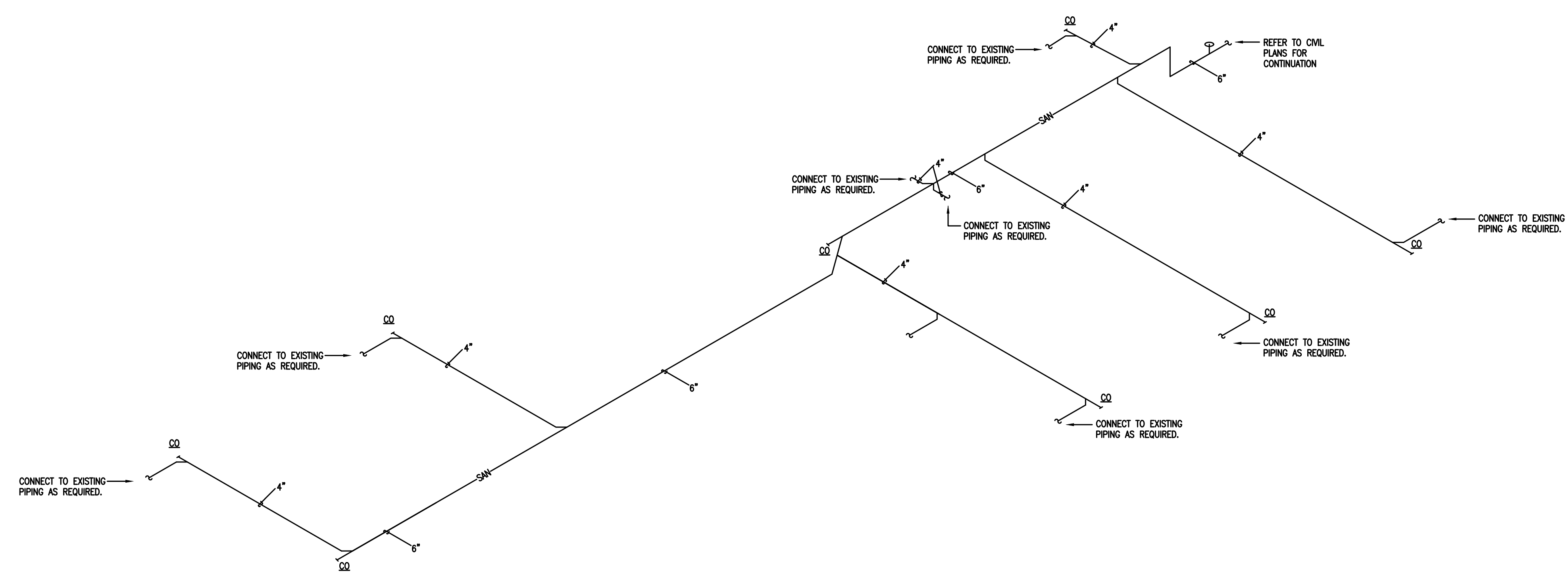
THE PIPING INDICATED SHALL BE INSTALLED COMPLETE AND SHALL BE OF THE SIZES INDICATED. WHEN A PIPE SIZE IS NOT INDICATED, THE AFFECTED CONTRACTOR SHALL REQUEST THE PIPE SIZE FROM THE ENGINEERS. ALL PIPING SHALL BE INSTALLED STRAIGHT AND TRUE, PARALLEL OR PERPENDICULAR TO THE BUILDING CONSTRUCTION. PIPING SHALL BE INSTALLED SO AS TO ALLOW FOR EXPANSION WITHOUT DAMAGE TO THE BUILDING FINISHES, STRUCTURE, PIPE, EQUIPMENT, ETC., USE OFFSETS AS REQUIRED. NO MITERED JOINTS OR FIELD FABRICATED PIPE BENDS SHALL BE ACCEPTED.

PLUMBING LEGEND

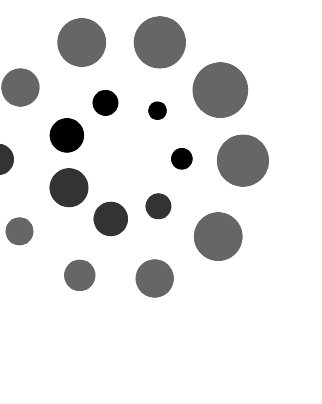
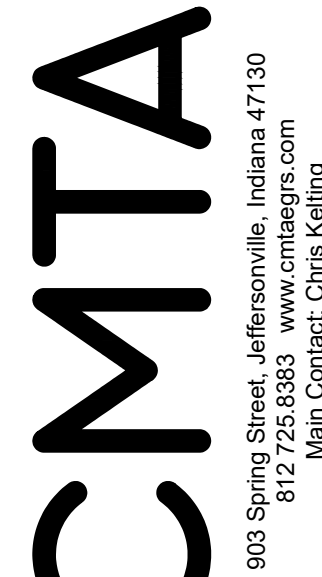
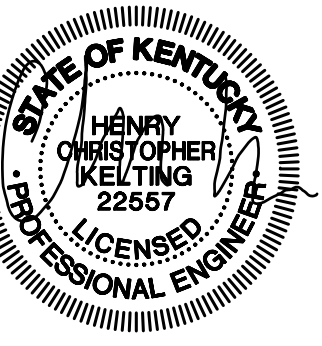
Table listing plumbing symbols and abbreviations: ABOVE FINISHED FLOOR (AFF), BELOW FINISHED FLOOR (BFF), CAST IRON (CI), CLEANOUT (CO), COLD WATER (CW), DOMESTIC WATER CIRCULATING PUMP (DWP), ELECTRICAL CONTRACTOR EXPANSION TANK (ET), EXTERIOR CLEANOUT (ECO), FLOOR DRAIN (FD), FLOOR SINK (FS), FREEZE PROOF WALL HYDRANT (FPWH), FREEZE PROOF ROOF HYDRANT (FPRH), GENERAL CONTRACTOR (GC), GREASE INTERCEPTOR (GI), HOSE BIBB (HB), HOT WATER (HW), INVERT ELEVATION (IE), MECHANICAL CONTRACTOR (MC), MIXING VALVE (MV), NEUTRALIZATION TANK (NT), OWNER FURNISHED CONTRACTOR INSTALLED (OFCI), OPEN RECEIPTABLE (OR), OPEN RECEPTACLE (OR), POLYVINYL CHLORIDE (PVC), ROOF DRAIN (RD), SUMP PUMP (SP), TRAP PRIMER (TP), TRENCH DRAIN (TD), TYPICAL (TYP), VENT THROUGH ROOF (VTR), WATER HAMMER ARRESTOR (WHA), WATER HEATER (WH), WATER SOFTENER (WS), EXISTING SANITARY PIPING (E(SAN)), EXISTING STORM PIPING (E(SS)), EXISTING OVERFLOW STORM PIPING (E(OSS)), EXISTING SANITARY VENT PIPING (E(SV)), EXISTING DOMESTIC COLD WATER PIPING (E(CW)), EXISTING DOMESTIC HOT WATER PIPING (E(HW)), EXISTING DOMESTIC HOT WATER RETURN PIPING (E(HWR)), EXISTING NATURAL GAS PIPING (E(GAS)), DEMO SANITARY PIPING (D(SAN)), DEMO STORM PIPING (D(SS)), DEMO OVERFLOW STORM PIPING (D(OSS)), DEMO SANITARY VENT PIPING (D(SV)), DEMO DOMESTIC COLD WATER PIPING (D(CW)), DEMO DOMESTIC HOT WATER PIPING (D(HW)), DEMO DOMESTIC HOT WATER RETURN PIPING (D(HWR)), DEMO NATURAL GAS PIPING (D(GAS)), SANITARY PIPING (SAN), STORM PIPING (SS), OVERFLOW STORM PIPING (OSS), GREASE WASTE PIPING (GL), OIL WASTE PIPING (OIL), SANITARY VENT PIPING (SV), DOMESTIC COLD WATER PIPING (CW), DOMESTIC HOT WATER PIPING (120° F) (H120), DOMESTIC HOT WATER RETURN PIPING (120° F) (HWR120), DOMESTIC HOT WATER PIPING (140° F) (H140), DOMESTIC HOT WATER RETURN PIPING (140° F) (HWR140), FILTERED COLD WATER (FCW), DEIONIZED WATER (DI), TRAP PRIMER PIPING (TP), RELIEF VALVE DISCHARGE (RV), PRESSURE RELIEF VALVE (PRV), UNION (U), DIAL THERMOMETER (DT), PRESSURE GAUGE (PG), GATE VALVE (G), BALANCING VALVE (BV), SOLENOID VALVE (SV), GAS SHUT-OFF VALVE (GS), CHECK VALVE (CV), DOUBLE CHECK VALVE ASSEMBLY (DCA), BALL VALVE (BV), BALL VALVE IN RISER (BVR), PIPING ELBOW (TURNED UP/DOWN) (E), PIPING TEE (TURNED UP/DOWN) (T), REDUCED PRESSURE BACKFLOW PREVENTER (RBP), PRESSURE REDUCING VALVE (PRV).

GENERAL NOTES (APPLICABLE TO ALL DRAWINGS):

- 1. EACH CONTRACTOR, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS AND AVOID CONFLICT WITH ANY OTHER BUILDING SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.
- 2. ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC., MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSER'S DISCRETION.
- 3. INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC., IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING AND/OR THE COLLECTION OF CONDENSATION THEREON.
- 4. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS (CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.).
- 5. ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT DONE SO SHALL BE REMOVED AND REINSTALLED SATISFACTORILY.
- 6. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
- 7. DO NOT SCALE FROM DRAWINGS, PRINTING DISTORTS SCALE. WORK SHALL BE LAD OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.
- 8. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. ALL CUTTING AND PATCHING SHALL MATCH EXISTING ADJACENT SURFACES AND BE IN ACCORD WITH FACILITY STANDARDS FOR SUCH WORK.
- 9. THESE DRAWINGS ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER LOCATIONS, DEPTHS, ELEVATIONS AND SIZES WERE TAKEN FROM DIFFERENT SOURCES AND ARE SUBJECT TO DEVIATION. THE CONTRACTOR SHALL ASSUME SOME DEVIATIONS AND INCLUDE OFFSETS, ADDITIONAL PIPING, ETC AT THE TIME OF BID.
- 10. ADVISE THE ENGINEERS OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE. TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.
- 11. DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.
- 12. THE PURPOSE AND INTENT OF ALL THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.
- 13. INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORD WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION.
- 14. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES, EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING. DO NOT SUPPORT EQUIPMENT FROM WALLS OR PARTITIONS.
- 15. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- 16. THE GENERAL CONTRACTOR FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC. EACH TRADE SHALL COORDINATE THEIR WORK WITH OTHER TRADES AND THE GENERAL CONTRACTOR.
- 17. VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT.
- 18. ENSURE PROPER COORDINATION BETWEEN ALL TRADES SUCH THAT CONDUIITS, PIPING, DUCTWORK, ETC. DO NOT BLOCK ACCESS TO VALVES, EQUIPMENT, DUCT ACCESS DOORS, ETC. ITEMS THAT HAVE BEEN INSTALLED WHERE ACCESS IS COMPROMISED SHALL BE RELOCATED AT THE CONTRACTOR'S EXPENSE.
- 19. IN AREAS WITH WORK ABOVE AN EXISTING CEILING (LAY-IN, DRYWALL, SPLINE, ETC.), THE CONTRACTOR SHALL CUT AND PATCH THE CEILING AND GRID AS REQUIRED TO PERFORM THE WORK. ANY EXISTING LAY-IN CEILING OR GRID DAMAGED OR BROKEN SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 20. INACCESSIBLE PIPING BURIED IN EXISTING WALLS REMAINING AND CONCRETE SLABS MAY BE ABANDONED IN PLACE. CAP ABANDONED PIPING AND DUCTWORK.
- 21. ALL NEW SANITARY, STORM AND WATER PIPING SHALL BE CLOSELY COORDINATED WITH NEW STRUCTURE, HVAC DUCTWORK AND PIPING, AND ELECTRICAL.
- 22. ALL SANITARY, STORM AND VENT PIPING SHALL BE ROUTED IN BETWEEN BEAMS, AND HELD HIGH AS POSSIBLE.
- 23. ALL SYSTEM SHUTDOWN PLANS SHALL BE SUBMITTED FOR REVIEW A MINIMUM OF 72 HOURS IN ADVANCE. ALL COORDINATION SHOULD BE ACCOMPLISHED PRIOR TO SUBMISSION.
- 24. THE CONTRACTOR SHALL CLEAN UP CONSTRUCTION DEBRIS DAILY BEFORE LEAVING THE WORKSPACE.
- 25. THE WORK AREA NEEDS TO BE SEALED WITH A DUST BARRIER SYSTEM SUCH AS A "ZIP WALL" SYSTEM.
- 26. ALL DUCTWORK VENTS IN THE AREA IF CONSTRUCTION ARE TO BE SEALED AIRTIGHT.



WASTE RISER DIAGRAM NOT TO SCALE



760 S. Hancock Street  
Sanitary Plumbing Modifications  
Louisville Metro Housing Authority

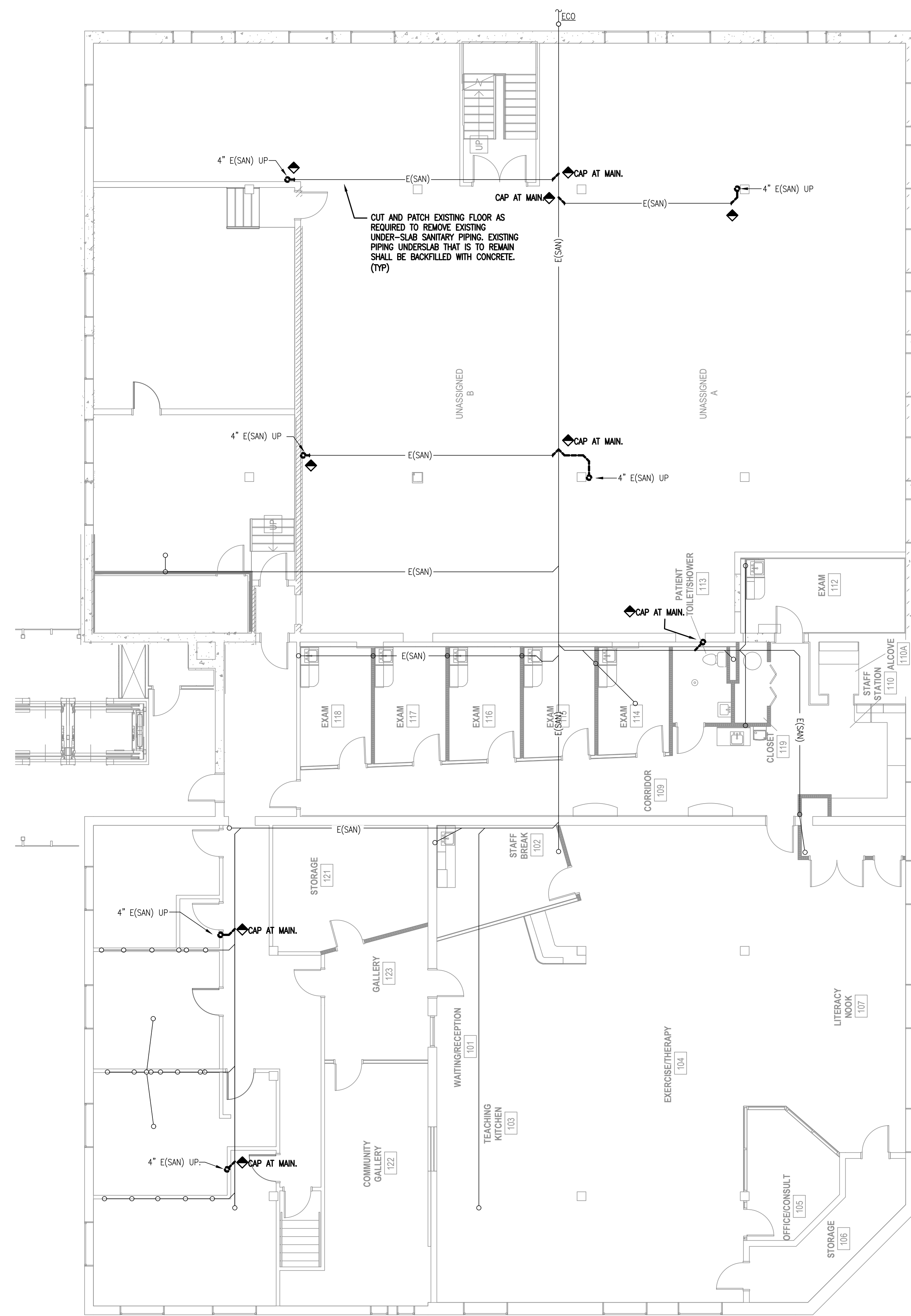
PLUMBING LEGEND, GENERAL NOTES AND DETAILS

Table with columns for REVISIONS, DATE MAY 30, 2019, DRAWN BY CMTA, CHECKED BY CMTA.

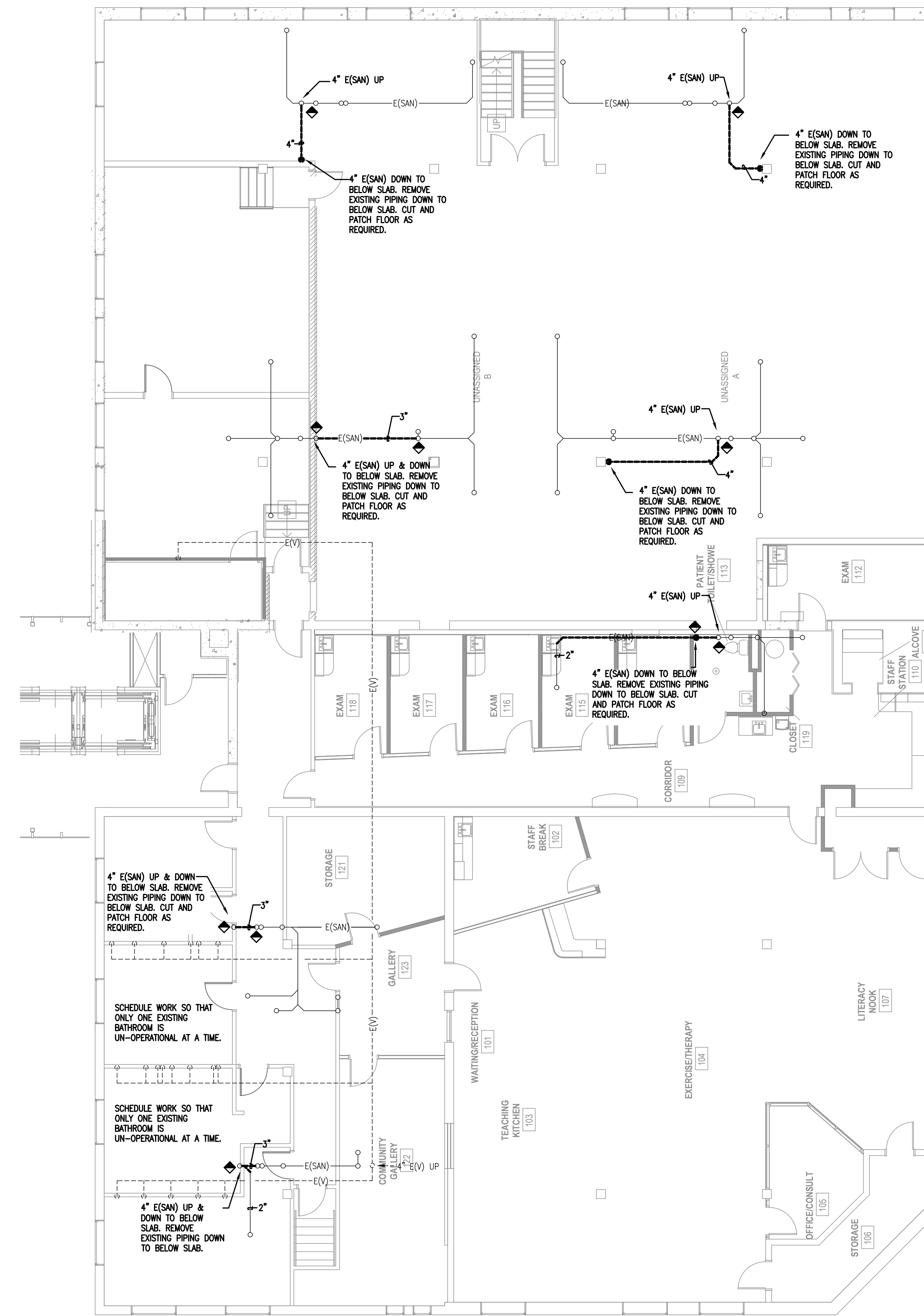
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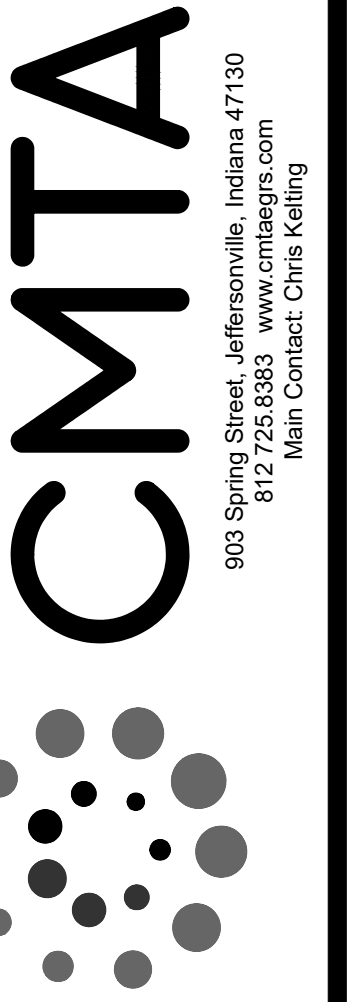
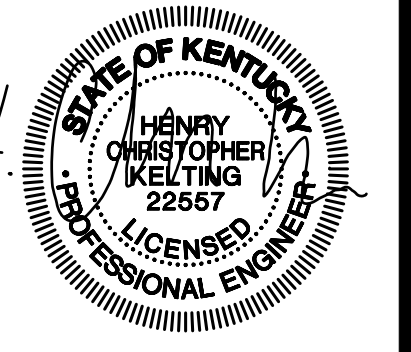
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**01 BASEMENT PLAN - UNDER-SLAB PLUMBING DEMOLITION**  
SCALE: 1/4" = 1'-0"



**02 BASEMENT PLAN - PLUMBING DEMOLITION**  
SCALE: 1/4" = 1'-0"



**760 S. Hancock Street**  
**Sanitary Plumbing Modifications**  
Louisville Metro Housing Authority

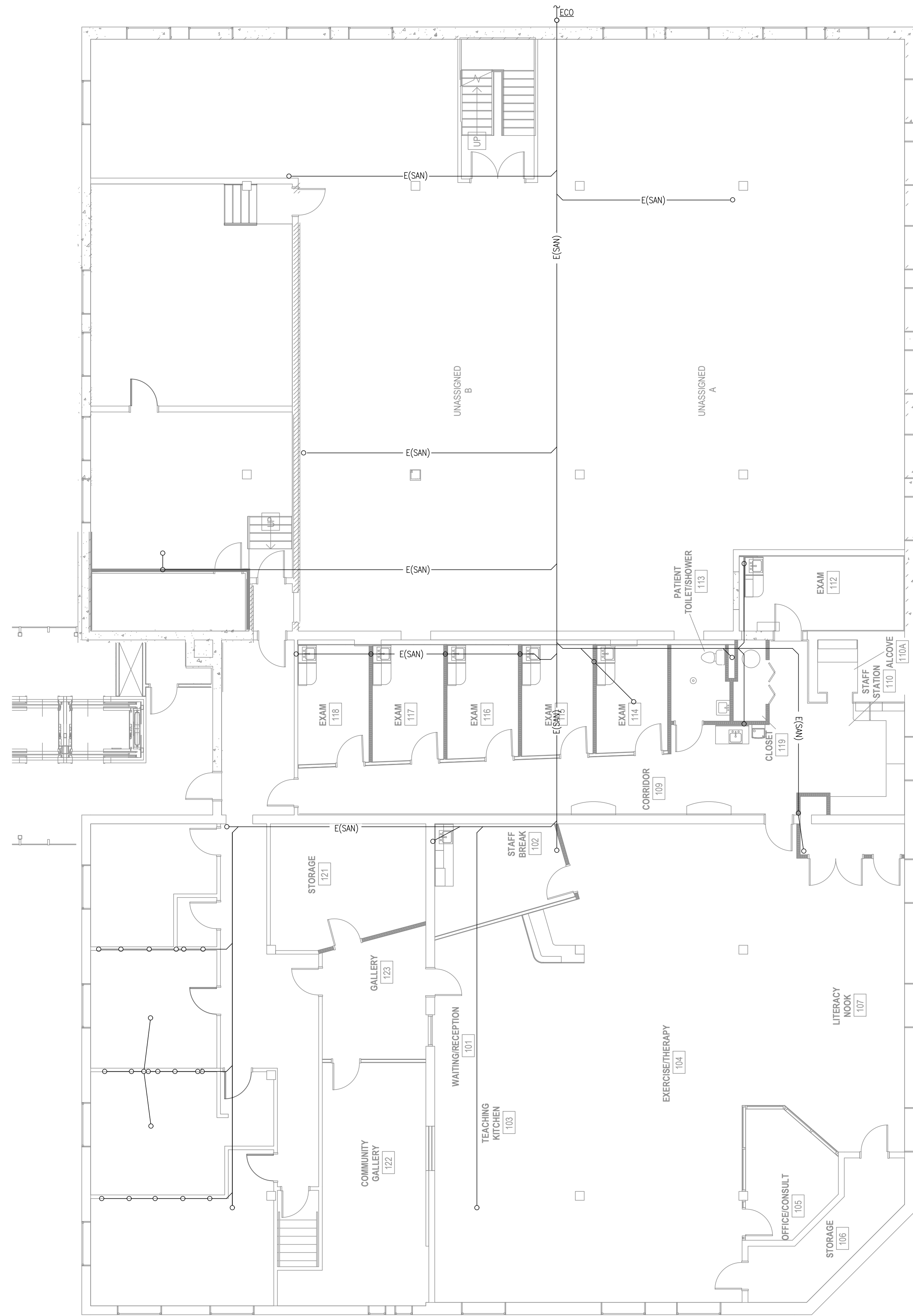
FLOOR PLANS - PLUMBING DEMOLITION

REVISIONS

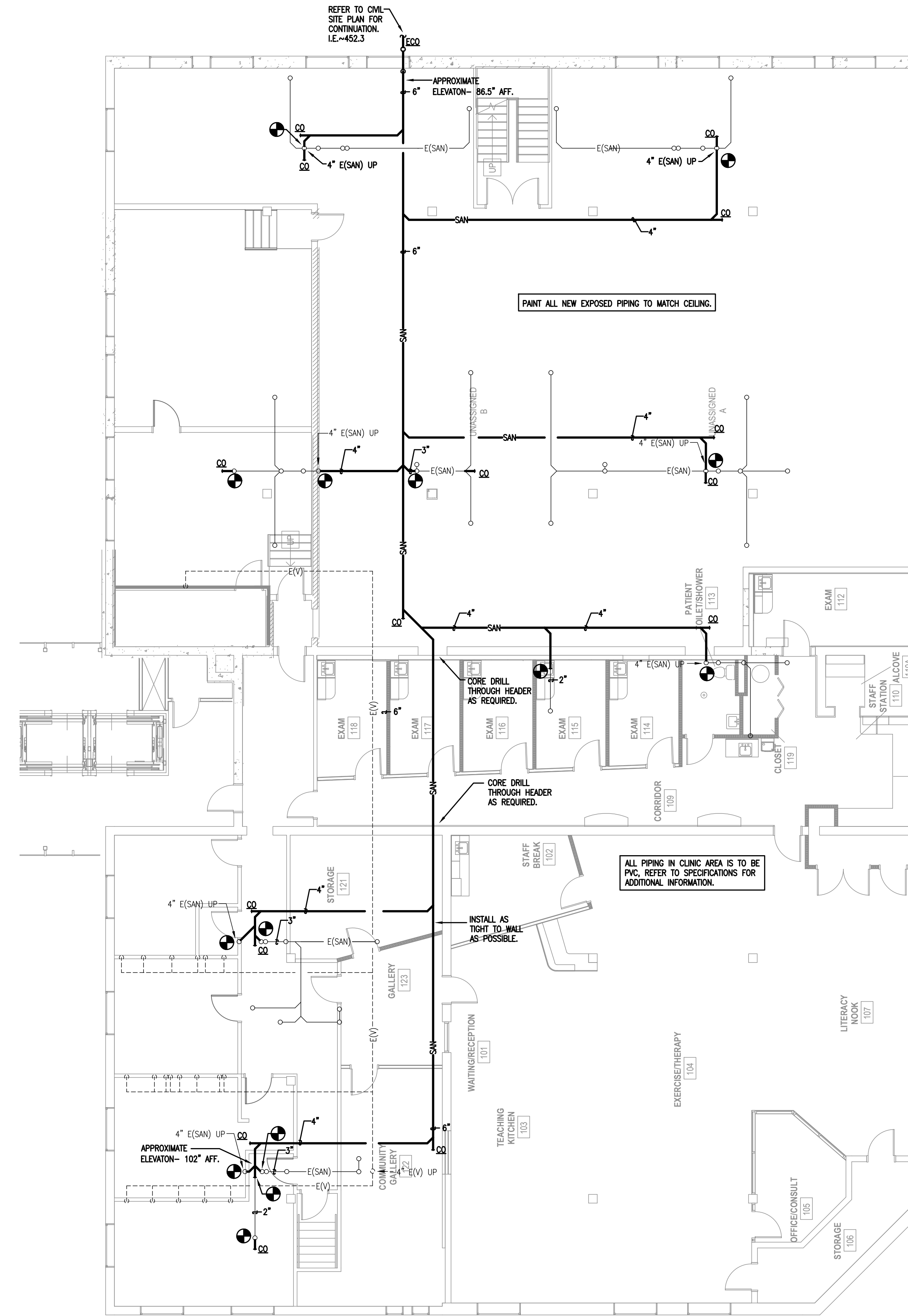

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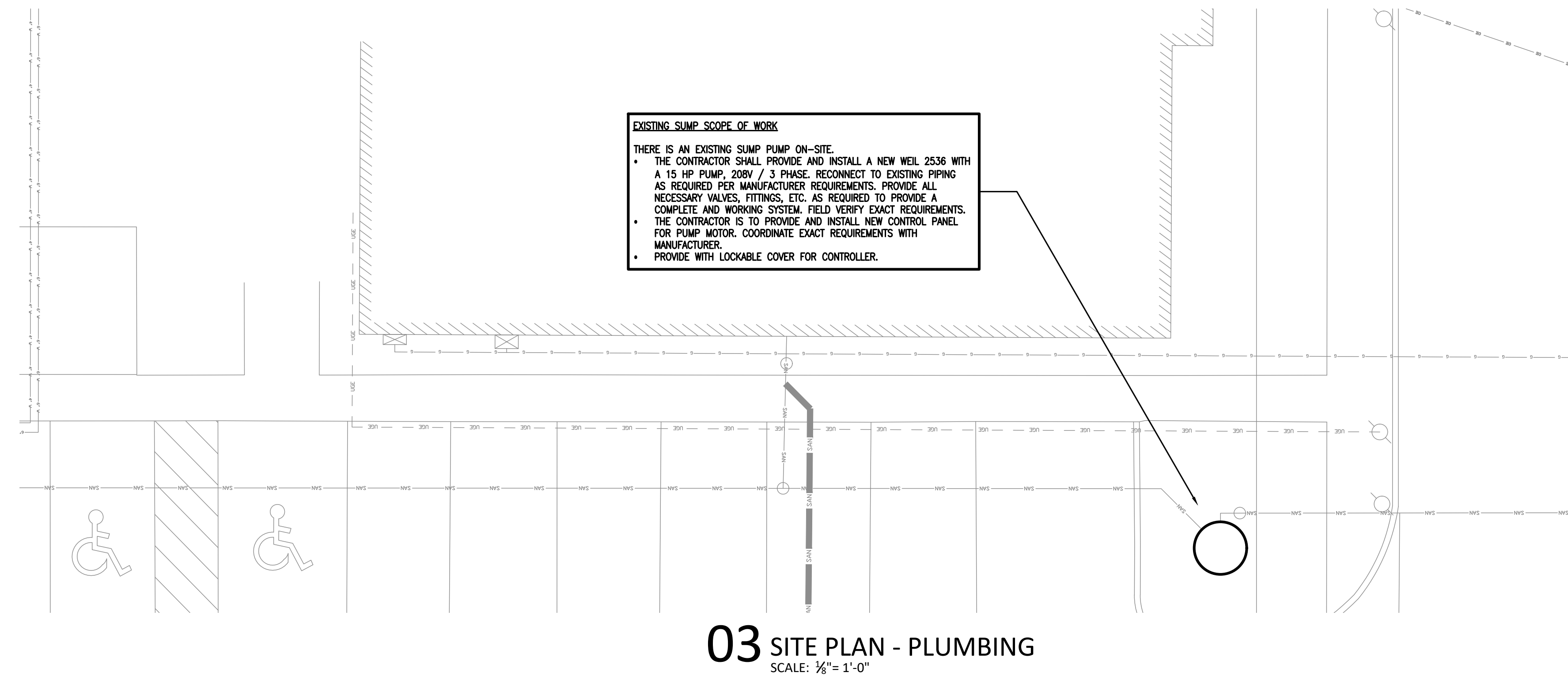
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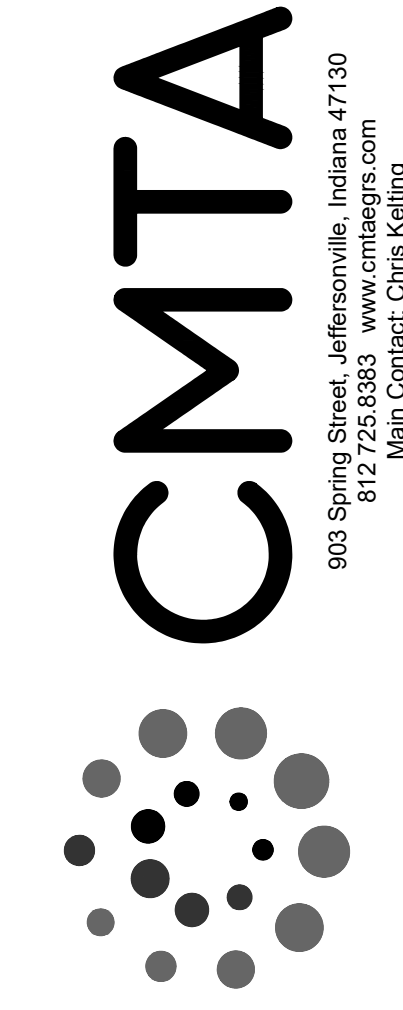
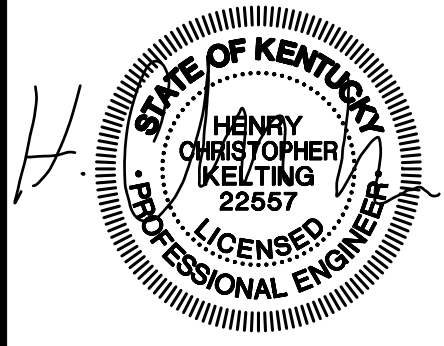
01 BASEMENT PLAN - UNDER-SLAB PLUMBING  
SCALE: 3/8" = 1'-0"



02 BASEMENT PLAN - PLUMBING  
SCALE: 3/8" = 1'-0"



03 SITE PLAN - PLUMBING  
SCALE: 3/8" = 1'-0"



760 S. Hancock Street  
Sanitary Plumbing Modifications  
Louisville Metro Housing Authority

FLOOR PLANS - PLUMBING

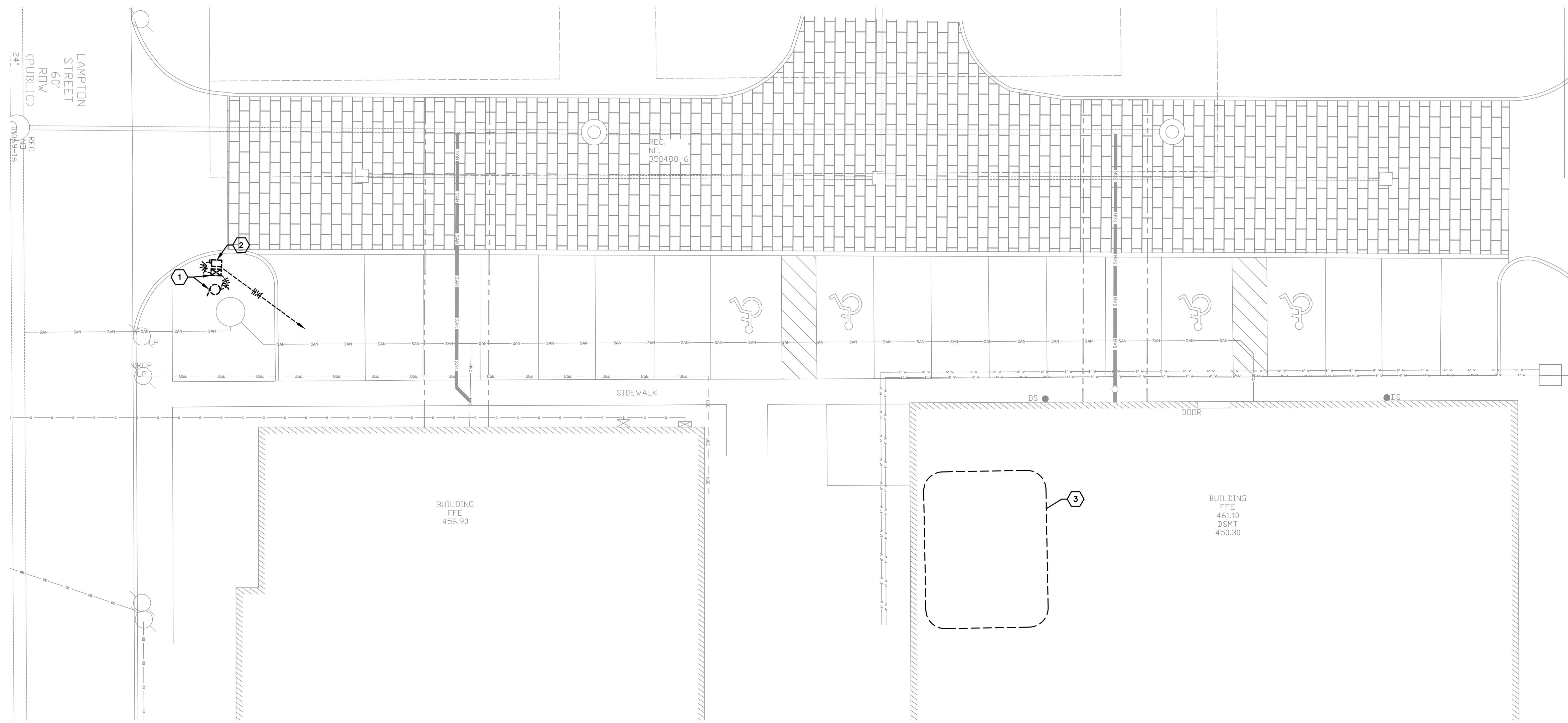
REVISIONS

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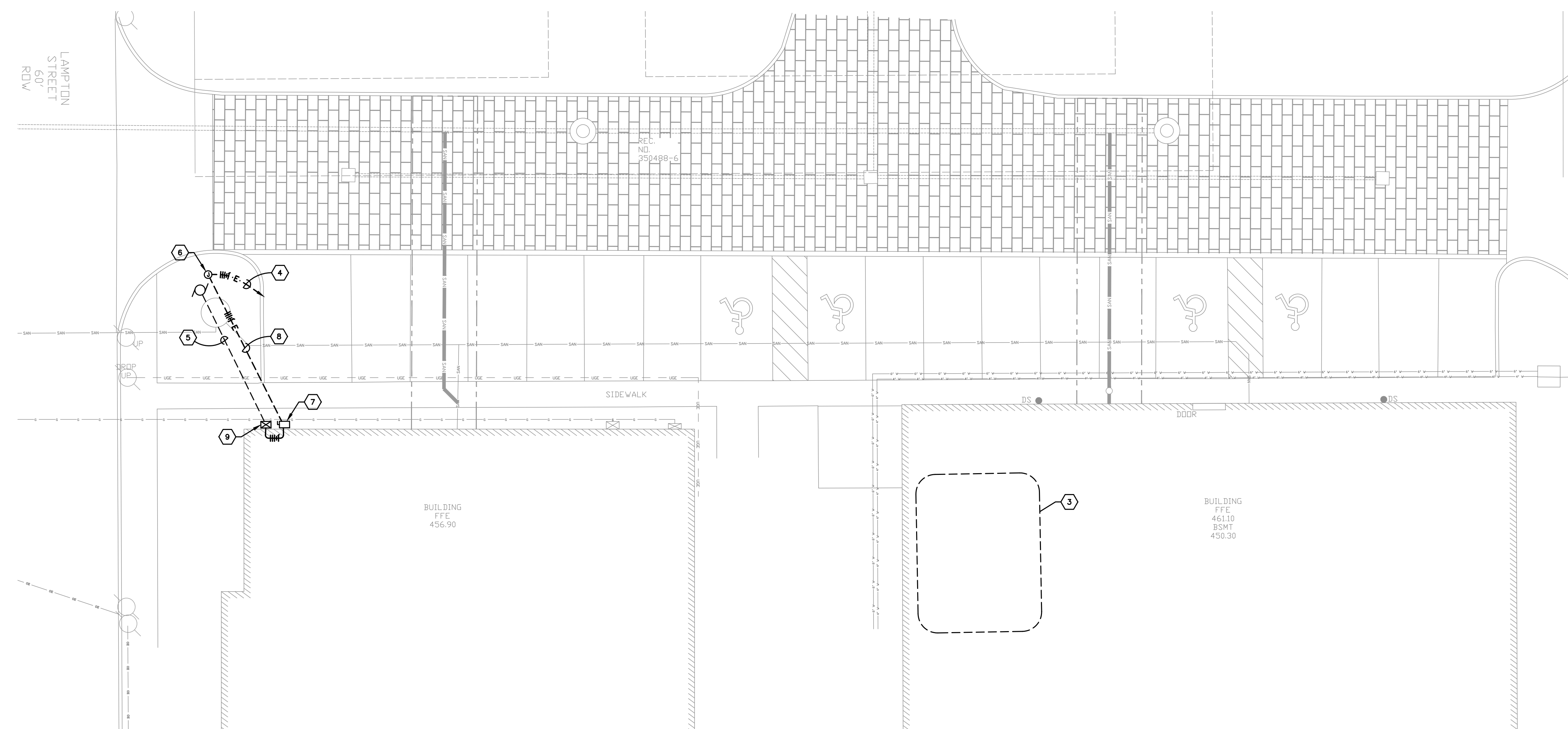
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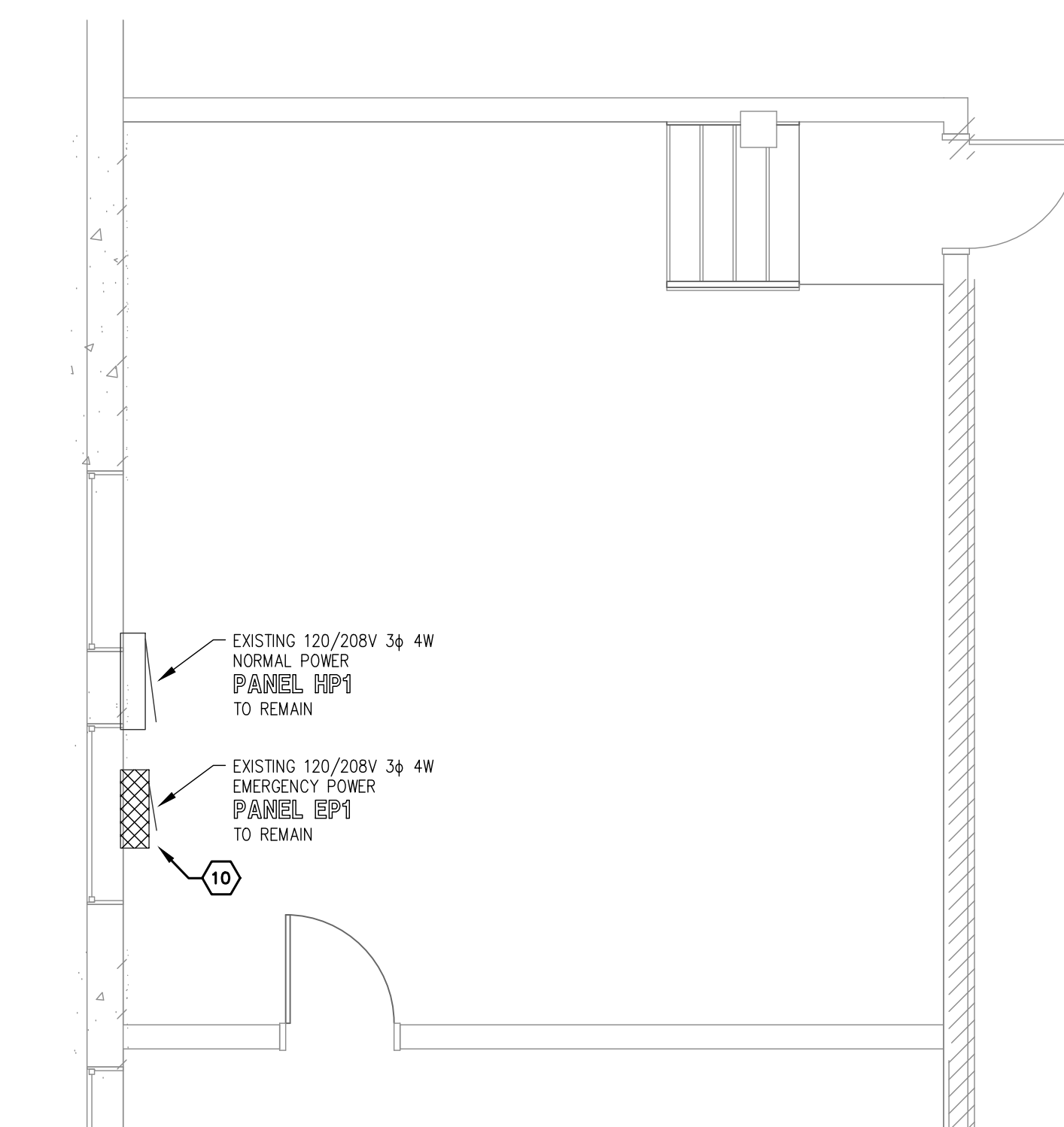




**01 PARTIAL SITE PLAN - ELECTRICAL DEMOLITION**  
SCALE: 1"=10'-0"



**02 PARTIAL SITE PLAN - ELECTRICAL NEW WORK**  
SCALE: 1"=10'-0"



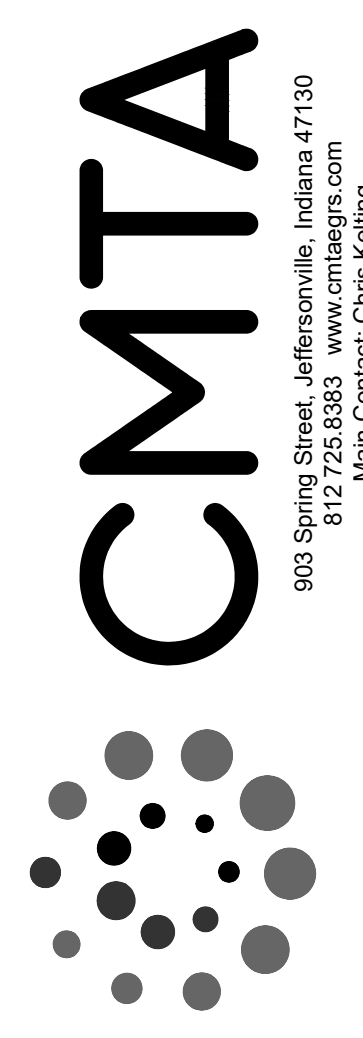
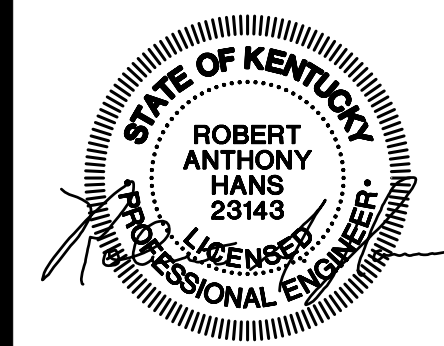
**03 ENLARGED PLAN - MAIN ELECTRIC ROOM**  
SCALE: 1/4"=1'-0"

**TAGGED NOTES :**

1. EXISTING SEWAGE EJECTOR PUMP AND CONTROL PANEL TO BE REMOVED AS A PART OF MECHANICAL WORK. DISCONNECT POWER TO MAKE DEVICES SAFE FOR REMOVAL AND REMOVE ALL WIRING AND CONDUIT.
2. REMOVE EXISTING DISCONNECT SWITCH ALL ASSOCIATED WIRING BACK TO PANEL "EP1" IN MAIN ELECTRIC ROOM. BELOW GRADE CONDUIT AND STUB UP TO REMAIN FOR RE-USE IN NEW WORK PLAN.
3. APPROXIMATE LOCATION OF MAIN ELECTRIC ROOM LOCATED ON THE BASEMENT FLOOR. REFER TO ENLARGED PLAN ON THIS SHEET FOR FURTHER REQUIREMENTS.
4. ROUTE (4) #6 AWG CONDUCTORS AND (1) #8 AWG GND IN EXISTING UNDERGROUND CONDUIT TO PANEL "EP1". CONNECT TO NEW 90A CIRCUIT BREAKER.
5. PROVIDE NEW 2" SCHEDULE 40 PVC CONDUIT MIN 24" BELOW GRADE FROM NEW PUMP CONTROLLER TO PUMP LOCATION. TERMINATE TO PUMP MOTOR USING LIQUID TIGHT FLEXIBLE CONNECTION. COORDINATE CONNECTION DETAILS WITH PUMP INSTALLER.
6. PROVIDE NEW IN-GRADE PULL BOX TIE & LISTING AT EXISTING CONDUIT STUB -UP LOCATION. CONCRETE POLYMER CONSTRUCTION. BOX SHALL BE QUARTZITE MODEL PG SERIES OR EQUAL. REFER TO DETAIL ON SHEET E1.0 FOR ADDITIONAL REQUIREMENTS.
7. PROVIDE NEW 240V, 3P, 100A FUSIBLE DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. PROVIDE FUSES SIZED TO EQUIPMENT NAMEPLATE RATING. MOUNT DISCONNECT TO SIDE OF BUILDING. PROVIDE UNISTRUT SUPPORT AS REQUIRED. COORDINATE EXACT MOUNTING LOCATION WITH OWNER PRIOR TO ROUGH-IN. CONNECT (3) #4 AWG CONDUCTORS AND (1) #6 AWG GND IN 1-1/4" RGS CONDUIT TO NEW PUMP CONTROL PANEL.
8. ROUTE (4) #6 AWG CONDUCTORS AND (1) #8 AWG GND IN 1-1/4" SCHEDULE 40 PVC CONDUIT MIN 24" BELOW GRADE FROM PULL BOX TO DISCONNECT.
9. NEW PUMP CONTROLLER PROVIDED BY PUMP INSTALLER, INSTALLED COMPLETE BY ELECTRICAL CONTRACTOR.
10. PROVIDE NEW 90A/3P CIRCUIT BREAKER IN EXISTING EMERGENCY PANEL EP1. CIRCUIT BREAKER SHALL BE COMPATIBLE WITH EXISTING PANEL. PROVIDE NEW LAMACOD LABELS PER DETAIL ON SHEET E1.0. RE-LABEL CIRCUIT BREAKER PREVIOUSLY SERVING PUMP REMOVED DURING DEMOLITION AS SPARE.

**GENERAL SHEET NOTES :**

- A. DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS AND COORDINATE WITH CIVIL DRAWINGS AND SURVEYS.
- B. REFER ALSO TO ALL OTHER PLANS AND THE SPECIFICATION, BUT ESPECIALLY TO: THE SITE SURVEY & APPROPRIATE MECHANICAL & ELECTRICAL FLOOR PLANS FOR SERVICE CONTINUATIONS. WHERE THERE ARE CONFLICTS AMONG THESE PLANS AND/OR RELATED SPECIFICATIONS, ADVISE THESE ENGINEERS AT LEAST TEN DAYS PRIOR TO SUBMISSION OF BIDS.
- C. FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.
- D. WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICE IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.
- E. LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKEN FROM VARIOUS SOURCES. ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS. EXISTING UTILITIES LOCATIONS MAY VARY. CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS.
- F. PROVIDE GALVANIZED RIGID CONDUIT FOR EXTERIOR UNDERGROUND TRANSITIONS TO ABOVE GRADE; EXTEND CONDUIT A MINIMUM OF 6' ABOVE GRADE.
- G. CONTRACTOR SHALL PERFORM A SMOKE TEST ON ALL CONDUITS INSTALLED ON SITE AND SHALL TAKE ALL NECESSARY CORRECTIVE ACTION IF NOT FOUND IN COMPLIANCE WITH FACILITY STANDARDS.
- H. CONTRACTOR SHALL CONTACT ENGINEER FOR INSPECTION OF TRENCHES PRIOR TO INSTALLATION OF CONDUITS OR RACEWAYS. PROVIDE PHOTOS UPON REQUEST.
- I. CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, ETC. AS REQUIRED FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK. FINISH GRADE, SEED AND STRAW ALL DISTURBED GREEN SPACES. ALL PATCH AND REPAIR WORK SHALL BE IN ACCORDANCE WITH BOTH CIVIL AND LANDSCAPE DRAWINGS AND SPECIFICATIONS.



**760 S. Hancock Street**  
**Sanitary Plumbing Modifications**  
Louisville Metro Housing Authority

**REVISIONS**

NO.	DATE	DESCRIPTION

DATE MAY 30, 2019  
DRAWN BY CMTA  
CHECKED BY CMTA

**SET NO.**

**E2.0**

**GENERAL NOTES:**

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL FEDERAL, STATE AND LOCAL PERMITS NECESSARY TO PERFORM AND COMPLETE THE PROJECT AS SHOWN ON THESE PLANS.
- CONSTRUCTION STAKING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. ADDITIONAL INFORMATION FOR STAKING FILE PROJECTS LINES AND GRADES WILL BE PROVIDED IN AUTOCAD DRAWING FILE FORMAT UPON REQUEST.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE UTILITY COMPANIES SUCH THAT ACCESS TO WORK AREAS OR SCHEDULE CONFLICTS DO NOT INTERRUPT OR DELAY THE PROJECT SCHEDULE.
- THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND VERIFY ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION, NOTIFY THE ENGINEER OF CONFLICTS OR DISCREPANCIES FOUND, AND TO COORDINATE ALL UTILITY RELOCATES, CONNECTS, AND DISCONNECTS WITH THE APPROPRIATE UTILITY COMPANY.
- CONCRETE AND ASPHALT PAVING MATERIALS AND PLACEMENT SHALL BE IN ACCORDANCE WITH KDOT STANDARD SPECIFICATIONS AND DRAWINGS.
- ALL EXISTING PLANT MATERIALS NOT DESIGNATED FOR REMOVAL SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS OF RESTORING/REPLACING DAMAGED PLANT MATERIALS.
- CONTRACTOR SHALL KEEP ALL SURROUNDING PUBLIC ROADWAYS, PEDESTRIAN WAYS AND DRAINAGE SYSTEMS FREE FROM DIRT, MUD AND CONSTRUCTION DEBRIS AT ALL TIMES.
- ALL MATERIALS REMOVED FROM THE SITE SHALL BE DISPOSED OF IN AN APPROVED WASTE DISPOSAL SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND FEES ASSOCIATED WITH DISPOSAL OF WASTE MATERIALS.

**EXISTING UTILITY NOTES:**

- CONTRACTOR IS SPECIFICALLY CAUTIONED THAT LOCATIONS AND/OR ELEVATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE BASED ON RECORDS OF VARIOUS UTILITY COMPANIES, RECORD DRAWINGS, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION SHOWN IS NOT TO BE RELIED ON AS BEING EXACT OR ALL INCLUSIVE.
- CONTRACTOR SHALL UNCOVER AND VERIFY ALL LOCATIONS AND ELEVATIONS AT TIE IN AND CROSSING LOCATIONS PRIOR TO ANY UNDERGROUND PIPE INSTALLATION.
- CONTRACTOR SHALL LOCATE ALL EXISTING ACTIVE UTILITIES IN THE PROJECT AREA, PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING CONSTRUCTION ACTIVITIES AND COORDINATE ANY DISRUPTION OF SERVICE WITH THE UTILITY COMPANY, OWNER AND CONSTRUCTION MANAGER.
- CONTRACTOR SHALL TAKE NECESSARY MEASURES TO MINIMIZE ENVIRONMENTAL CONTAMINATION ENTERING UTILITY LINES BEING CONSTRUCTED TO ENSURE CONTAMINATION DOES NOT LEAVE THE SITE.

**SANITARY SEWER NOTES:**

- SANITARY SEWER CONNECTION FEE (\$250 FOR EACH TAP) SHALL BE PAID TO MSD PRIOR TO BEGINNING CONSTRUCTION.
- ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE METROPOLITAN SEWER DISTRICT'S STANDARD SPECIFICATIONS AND DRAWINGS UNLESS SHOWN OTHERWISE.
- SANITARY CLEANOUT SHALL BE TWO-WAY PER MSD STANDARD DRAWING SS-02-02.
- PROPERTY SERVICE CONNECTION CROSSING UNDER (OVER) THE STORM DRAIN OR UTILITY CONDUIT PROPOSED OR EXISTING WITH LESS THAN 2 (TWO) FEET OF CLEARANCE SHALL BE CAPPED (ENCASED) WITH 6" CLASS "B" CONCRETE IN ACCORDANCE WITH THE TYPICAL CONCRETE CAP (CONCRETE ENCASMENT) DETAIL.

**PAVEMENT NOTES:**

- CONTRACTOR SHALL REMOVE EXISTING CONCRETE PAVING AND CONCRETE SIDEWALK AS NECESSARY FOR THE INSTALLATION OF SANITARY SEWERS. PROVIDE CLEAN VERTICAL CUT.
- CONTRACTOR SHALL REMOVE EXISTING CONCRETE PAVERS AS NECESSARY FOR THE INSTALLATION OF SANITARY SEWER. SALVAGED PAVERS SHALL BE PALLETIZED AND DELIVERED TO LMHA PURCHASING DEPARTMENT AT 3223 S. 7TH STREET ROAD, AND PLACED AS DIRECTED. BROKEN OR DAMAGED PAVERS SHALL BE DISPOSED OF IN AN APPROVED WASTE DISPOSAL SITE.
- PAVEMENT RESTORATION IS NOT IN THIS CONTRACT. CONTRACTOR SHALL BACKFILL SANITARY SEWER TRENCH IN ACCORDANCE WITH MSD STANDARD SPECIFICATIONS TO EXISTING SUBGRADE ELEVATIONS.
- CONTRACTOR SHALL PLACE STEEL PLATES (RECESSED OR BEVELED) OVER ROADWAY/PARKING EXCAVATION. PLATES SHALL REMAIN IN PLACE UNTIL COMMENCEMENT OF REPAVING PROJECT.
- CONTRACTOR SHALL REMOVE EXISTING WHEELSTOPS AS NECESSARY AND STORE ON SITE. WHEELSTOPS SHALL BE REINSTALLED WITH PAVING CONTRACT.

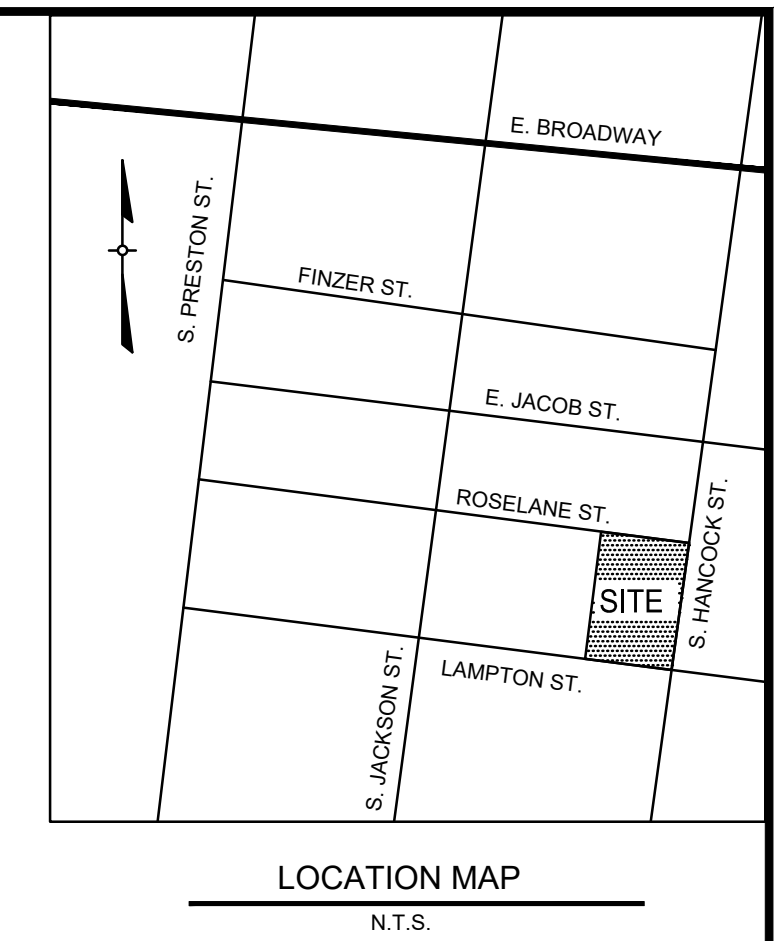
**MSD NOTE:**

MSD DOES NOT WARRANT THE DESIGN OR COMPUTATIONS CONTAINED IN THIS PLAN. THE CORRECTNESS OR ACCURACY OF ALL ENGINEERING COMPUTATIONS REMAIN THE SOLE RESPONSIBILITY OF THE APPLICANT'S DESIGN PROFESSIONAL. MSD'S APPROVAL TO PROCEED WITH CONSTRUCTION IS BASED SOLELY ON THAT DESIGN PROFESSIONAL'S SEAL AND SIGNATURE.

**APPLICABLE MSD STANDARD DRAWINGS:**

<b>SANITARY DRAWINGS</b>	
PROPERTY SERVICE CONNECTION	SP-01-01
TWO-WAY CLEANOUT	SC-02-02
<b>GENERAL DRAWINGS</b>	
CRUSHED STONE CRADLE	GC-01-01
CONCRETE CAP	GC-03-01
CONCRETE ENCASMENT	GC-04-01

(LATEST REVISIONS SHALL BE USED)



LOCATION MAP  
N.T.S.

NO.	DATE	DESCRIPTION	BY

**CIVIL DESIGN, INC.**  
 3404 STONY SPRING CIRCLE  
 LOUISVILLE, KENTUCKY, 40220  
 PH: 671-0060 FAX: 671-0311

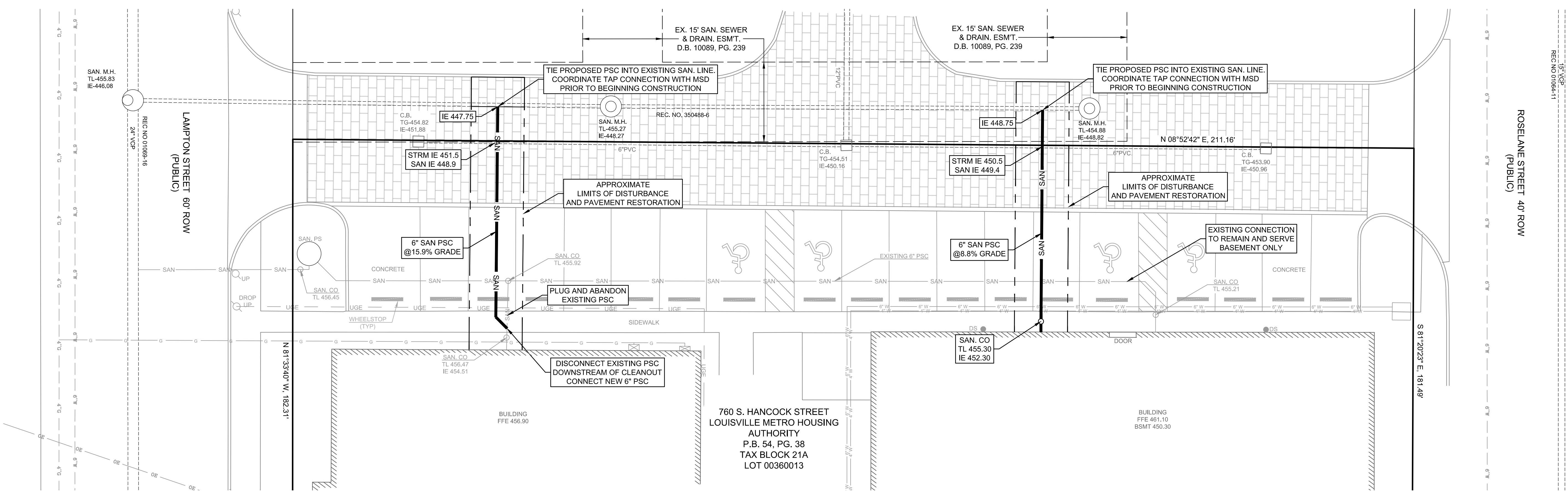
**CIVIL DESIGN, INC.**  
 WBE / DBE / MBE / LBE  
 Licensed Professional Engineer  
 Load Supervisor, Corp. Permit No. 840  
 Engineering Corp. Permit No. 3294

05/16/2019  
 DATE

Alexander V. Donenberg  
 30309  
 LICENSED PROFESSIONAL ENGINEER

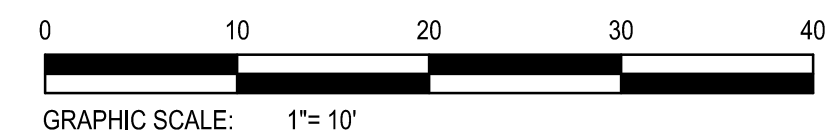
*Alexander V. Donenberg*  
 SIGNATURE

760 S. HANCOCK STREET  
 OWNER  
 SANITARY SEWER CONNECTIONS  
 LOUISVILLE METRO HOUSING AUTHORITY  
 420 S. 8TH STREET  
 LOUISVILLE, KENTUCKY 40203  
 PH: (502) 569-3457



**UTILITY PROTECTION NOTE:**

ALL UTILITIES ON THESE PLANS ARE APPROXIMATE. INDIVIDUAL SERVICE LINES ARE NOT SHOWN. THE CONTRACTOR OR SUBCONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER KENTUCKY 811 (TOLL FREE PHONE NO. 1-800-752-6007 OR LOCAL NO. 502-266-5123) FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT. THIS NUMBER WAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF EXISTING BELOW GROUND UTILITIES (I.E. CABLES, ELECTRIC WIRES, GAS & WATER LINES). THE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH ALL UTILITY REQUIREMENTS SET FORTH ON THE PLANS AND IN THE TECHNICAL SPECIFICATIONS & SPECIAL PROVISIONS.



DRAWN BY:	CHKD BY:
AD	AD
DATE:	MAY. 16, 2019
DRAWING:	C-1
SCALE:	1"= 10'
SHEET	1 OF 1