



420 S 8<sup>th</sup> Street  
Louisville, KY 40203

**ADDENDUM NO. 2**

**SANITARY SEWER MODIFICATIONS  
760 SOUTH HANCOCK STREET  
PROPOSAL # 1485**

To: All Plan Holders

From: Norma Ward  
Director, Capital Improvements Department  
Louisville Metro Housing Authority  
420 South Eighth Street  
Louisville, Kentucky 40203

Date: June 3, 2019

The purpose of this Addendum is to clarify the requirements of the specifications and plans.

The bidders are governed by the information in this Addendum as if included in the original bid documents.

This Addendum does hereby become a part of the Contract Documents.

Each bidder shall acknowledge receipt of this Addendum in the space provided in the Bid Form.

This Addendum consists of two (2) pages (8 ½" x 11") and seven (7) drawings (24" x 36").

This Addendum is posted on the Louisville Metro Housing Authority's Electronic Procurement System.

**A. Plans:**

1. Addendum #2 Plans are attached. They are:
  - a. Cover – dated 6/1/19
  - b. Plumbing – dated 5/31/19
  - c. Electrical – 5/5/19
  - d. Civil – dated 5/16/19.

**B. Specifications:**

1. SECTION 01 1000, SUMMARY:
  - a. Clause 1.1.D.3: Change the last sentence to read; "Backfill and compact excavation from installation of new lines. Cover excavation with steel plate. Subsequent contractor will repave.

- b. Clause 1.2.B: Change “On-site Work Hours” to be 8:00 a.m. to 4:00 p.m. Monday thru Friday for all exterior work and work in the interior common areas; and during normal operating hours inside the “Smoketown Family Wellness Center”.
- c. Add Article 1.3 DIRECTIONS  
Contractor is only to acknowledge instructions or directives from Civil Authorities, the Louisville Metro Housing Authority, or Lockett & Associates.

**C. General - all bidders are REMINDED of the following:**

1. The **BID OPENING DATE has been changed to TUESDAY JUNE 18, 2019 at 10:00 a.m.**
2. The cut-off for *questions* to Ms. Ward, Mr. Stepteau, and Mr. Lockett is Monday, **June 10, 2019 at 2:00 p.m.** After this date, ALL questions must be addressed to Mr. Webb at [Webb@LMHA1.org](mailto:Webb@LMHA1.org).
3. Responses to questions will be issued on June 11, 2018 (last addendum).

**END OF ADDENDUM #2**

# SANITARY SEWER MODIFICATIONS 760 SOUTH HANCOCK STREET

PROPOSAL  
1485



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



PROJECT LOCATION

LUCKETT & ASSOCIATES  
ARCHITECTS AND ENGINEERS  
153 THIERMAN LANE  
LOUISVILLE, KY 40207-5000  
502-584-6048 | (FAX) 502-893-0154  
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### DRAWING INDEX

- CP COVER
- P1.0 PLUMBING - NOTES AND RISER
- P2.0 PLUMBING - DEMOLITION
- P3.0 PLUMBING - NEW
- E1.0 ELECTRICAL - SPECIFICATIONS
- E2.0 ELECTRICAL - PLAN
- C1.0 CIVIL PLAN - PLAN

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SANITARY SEWER MODIFICATIONS  
760 SOUTH HANCOCK STREET

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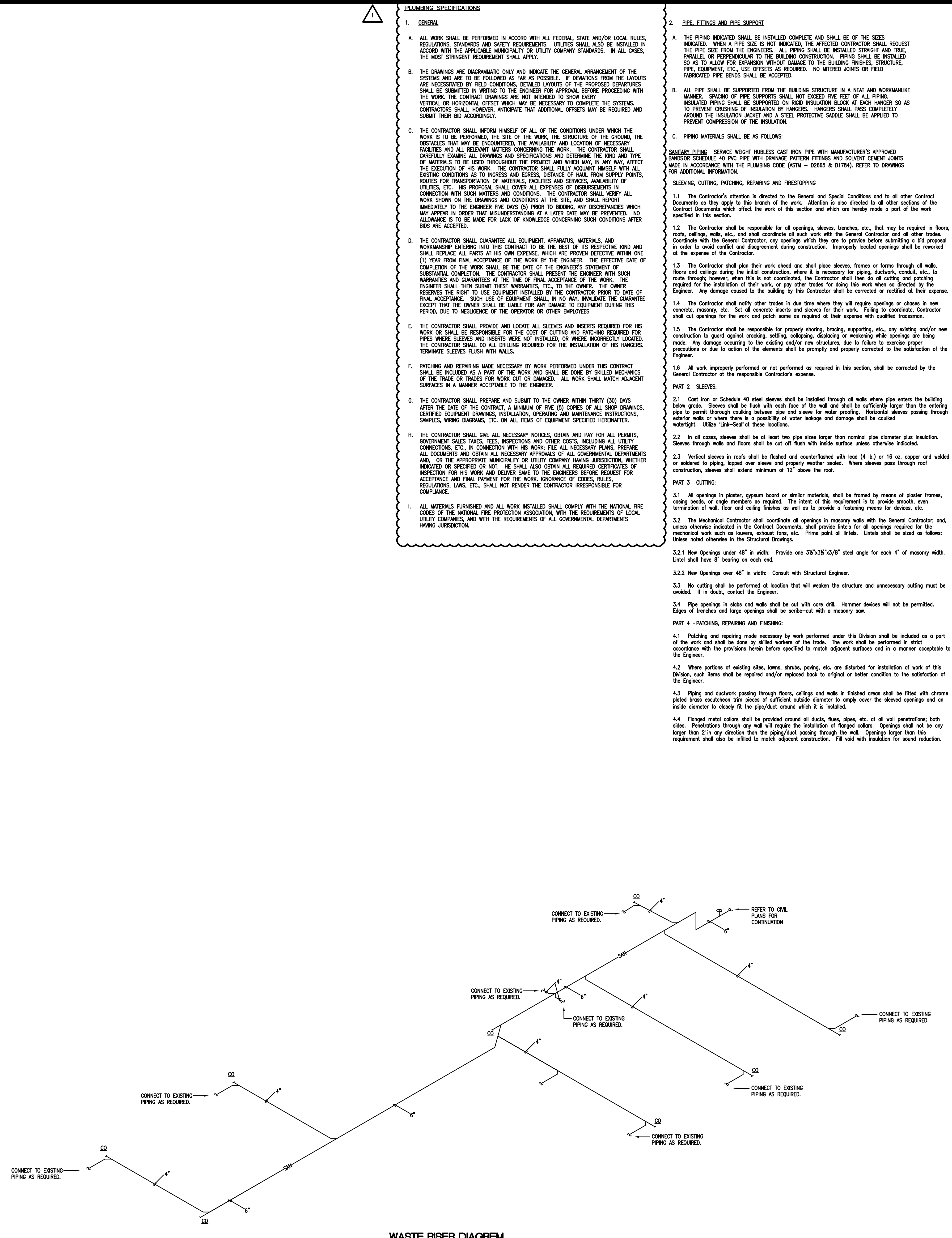
DATE  
04/16/19

PROJECT NUMBER  
18010

REVISED  
ADDENDUM - 06/01/2019

SHEET TITLE  
COVER PAGE

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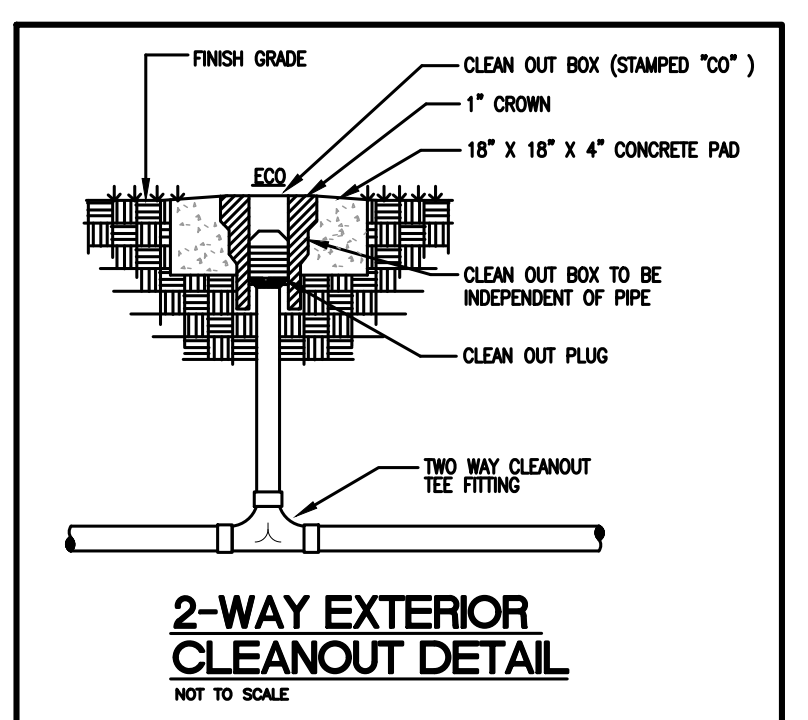
**WASTE RISER DIAGRAM**  
NOT TO SCALE

**PLUMBING SPECIFICATIONS**

- 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.
  - THE DRAWINGS ARE DIAGNOSTIC ONLY AND INDICATE THE GENERAL ARRANGEMENT OF THE SYSTEMS AND ARE TO BE FOLLOWED AS FAR AS POSSIBLE. IF DEVIATIONS FROM THE LAYOUTS ARE NECESSITATED BY FIELD CONDITIONS, DETAILED LAYOUTS OF THE PROPOSED DEPARTURES SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR APPROVAL BEFORE PROCEEDING WITH THE WORK. THE CONTRACT DRAWINGS ARE NOT INTENDED TO SHOW EVERY VERTICAL OR HORIZONTAL OFFSET WHICH MAY BE NECESSARY TO COMPLETE THE SYSTEMS. CONTRACTORS SHALL, HOWEVER, ANTICIPATE THAT ADDITIONAL OFFSETS MAY BE REQUIRED AND SUBMIT THEIR BID ACCORDINGLY.
  - THE CONTRACTOR SHALL INFORM HIMSELF OF ALL OF THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, THE SITE OF THE WORK, THE STRUCTURE OF THE GROUND, THE OBSTACLES THAT MAY BE ENCOUNTERED, THE AVAILABILITY AND LOCATION OF NECESSARY FACILITIES AND ALL RELEVANT MATTERS CONCERNING THE WORK. THE CONTRACTOR SHALL CAREFULLY EXAMINE ALL DRAWINGS AND SPECIFICATIONS AND DETERMINE THE KIND AND TYPE OF MATERIALS TO BE USED THROUGHOUT THE PROJECT AND WHICH MAY, IN ANY WAY, AFFECT THE EXECUTION OF HIS WORK. THE CONTRACTOR SHALL FULLY ACQUAINT HIMSELF WITH ALL EXISTING CONDITIONS AS TO INGRESS AND EGRESS, DISTANCE OF HAUL FROM SUPPLY POINTS, ROUTES FOR TRANSPORTATION OF MATERIALS, FACILITIES AND SERVICES, AVAILABILITY OF UTILITIES, ETC. HIS PROPOSAL SHALL COVER ALL EXPENSES OF DISBURSEMENTS IN CONNECTION WITH SUCH MATTERS AND CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL WORK SHOWN ON THE DRAWINGS AND CONDITIONS AT THE SITE, AND SHALL REPORT IMMEDIATELY TO THE ENGINEER FIVE (5) DAYS PRIOR TO BEGINNING ANY DISCREPANCIES WHICH MAY APPEAR IN ORDER THAT MISUNDERSTANDING AT A LATER DATE MAY BE PREVENTED. NO ALLOWANCE IS TO BE MADE FOR LACK OF KNOWLEDGE CONCERNING SUCH CONDITIONS AFTER BIDS ARE ACCEPTED.
  - THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, APPARATUS, MATERIALS, AND WORKMANSHIP ENTERING INTO THIS CONTRACT TO BE THE BEST OF ITS RESPECTIVE KIND AND SHALL REPLACE ALL PARTS AT HIS OWN EXPENSE, WHICH ARE PROVEN DEFECTIVE WITHIN ONE (1) YEAR FROM FINAL ACCEPTANCE OF THE WORK BY THE ENGINEER. THE EFFECTIVE DATE OF COMPLETION OF THE WORK SHALL BE THE DATE OF THE ENGINEER'S STATEMENT OF SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL PRESENT THE ENGINEER WITH SUCH WARRANTIES AND GUARANTEES AT THE TIME OF FINAL ACCEPTANCE OF THE WORK. THE ENGINEER SHALL THEN SUBMIT THESE WARRANTIES, ETC., TO THE OWNER. THE OWNER RESERVES THE RIGHT TO USE EQUIPMENT INSTALLED BY THE CONTRACTOR PRIOR TO DATE OF FINAL ACCEPTANCE. SUCH USE OF EQUIPMENT SHALL IN NO WAY INVALETE THE GUARANTEE EXCEPT THAT THE OWNER SHALL BE LIABLE FOR ANY DAMAGE TO EQUIPMENT DURING THIS PERIOD, DUE TO NEGLIGENCE OF THE OPERATOR OR OTHER EMPLOYEES.
  - THE CONTRACTOR SHALL PROVIDE AND LOCATE ALL SLEEVES AND INSERTS REQUIRED FOR HIS WORK OR SHALL BE RESPONSIBLE FOR THE COST OF CUTTING AND PATCHING REQUIRED FOR PIPES WHERE SLEEVES AND INSERTS WERE NOT INSTALLED, OR WERE INCORRECTLY LOCATED. THE CONTRACTOR SHALL DO ALL DRILLING REQUIRED FOR THE INSTALLATION OF HIS HANGERS. TERMINATE SLEEVES FLUSH WITH WALLS.
  - PATCHING AND REPAIRING MADE NECESSARY BY WORK PERFORMED UNDER THIS CONTRACT SHALL BE INCLUDED AS A PART OF THE WORK AND SHALL BE DONE BY SKILLED MECHANICS OF THE TRADE OR TRADES FOR WORK CUT OR DAMAGED. ALL WORK SHALL MATCH ADJACENT SURFACES IN A MANNER ACCEPTABLE TO THE ENGINEER.
  - THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE OWNER WITHIN THIRTY (30) DAYS AFTER THE DATE OF THE CONTRACT, A MINIMUM OF FIVE (5) COPIES OF ALL SHOP DRAWINGS, CERTIFIED EQUIPMENT DRAWINGS, INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS, SAMPLES, WORK DRAWINGS, ETC. ON ALL ITEMS OF EQUIPMENT SPECIFIED HEREINFTER.
  - THE CONTRACTOR SHALL OBTAIN ALL NECESSARY NOTICES, OBTAIN AND PAY FOR ALL PERMITS, GOVERNMENT SALES TAXES, FEES, INSPECTIONS AND OTHER COSTS, INCLUDING ALL UTILITY CONNECTIONS, ETC., IN CONNECTION WITH HIS WORK; FILE ALL NECESSARY PLANS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL GOVERNMENTAL DEPARTMENTS AND, OR THE APPROPRIATE MUNICIPALITY OR UTILITY COMPANY HAVING JURISDICTION, WHETHER INDICATED OR SPECIFIED OR NOT. HE SHALL ALSO OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION FOR HIS WORK AND DELIVER SAME TO THE ENGINEER BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE WORK. IGNORANCE OF CODES, RULES, REGULATIONS, LAWS, ETC., SHALL NOT RENDER THE CONTRACTOR IRRESPONSIBLE FOR COMPLIANCE.
  - ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION, WITH THE REQUIREMENTS OF LOCAL UTILITY COMPANIES, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION.

- PIPE, 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 ENGINEER. 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 WETTED JOINTS OR FIELD FABRICATED PIPE BENDS SHALL BE ACCEPTED.
  - ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. SPACING OF PIPE SUPPORTS SHALL NOT EXCEED FIVE FEET OF ALL PIPING. INSULATED PIPING SHALL BE SUPPORTED ON RIGID INSULATION BLOCK AT EACH HANGER SO AS TO PREVENT CRUSHING OF INSULATION BY HANGERS. HANGERS SHALL PASS COMPLETELY AROUND THE INSULATION JACKET AND A STEEL PROTECTIVE SADDLE SHALL BE APPLIED TO PREVENT COMPRESSION OF THE INSULATION.
  - PIPING MATERIALS SHALL BE AS FOLLOWS:
    - The Contractor's attention is directed to the General and Special Conditions and to all other Contract Documents as they apply to this branch of the work. Attention is also directed to all other sections of the Contract Documents which affect the work of this section and which are hereby made a part of the work specified in this section.
    - The Contractor shall be responsible for all openings, sleeves, trenches, etc., that may be required in floors, roofs, ceilings, walls, etc., and shall coordinate all such work with the General Contractor and all other trades. Coordinate with the General Contractor, any openings which they are to provide before submitting a bid proposal in order to avoid conflict and disagreement during construction. Improperly located openings shall be reworked at the expense of the Contractor.
    - The Contractor shall plan their work ahead and shall place sleeves, frames or forms through all walls, floors and ceilings during the initial construction, where it is necessary for piping, ductwork, conduit, etc., to route through; however, when this is not coordinated, the Contractor shall then do all cutting and patching required for the installation of their work, or pay other trades for doing this work when so directed by the Engineer. Any damage caused to the building by this Contractor shall be corrected or rectified at their expense.
    - The Contractor shall notify other trades in due time where they will require openings or chases in new concrete, masonry, etc. Set all concrete inserts and sleeves for their work. Failing to coordinate, Contractor shall cut openings for the work and patch same as required at their expense with qualified tradesmen.
    - The Contractor shall be responsible for properly shoring, bracing, supporting, etc., any existing and/or new construction to guard against cracking, settling, collapsing, displacing or weakening while openings are being made. Any damage occurring to the existing and/or new structures, due to failure to exercise proper precautions or due to action of the elements shall be promptly and properly corrected to the satisfaction of the Engineer.
    - All work improperly performed or not performed as required in this section, shall be corrected by the General Contractor at the responsible Contractor's expense.
- PART 2 - SLEEVES:**
  - Cast iron or Schedule 40 steel sleeves shall be installed through all walls where pipe enters the building below grade. Sleeves shall be flush with each face of the wall and shall be sufficiently larger than the entering pipe through; however, when this is not coordinated, the Contractor shall then do all cutting and patching required for the installation of their work, or pay other trades for doing this work when so directed by the Engineer. Utilize 'Link-Seal' at these locations.
  - In all cases, sleeves shall be at least two pipe sizes larger than nominal pipe diameter plus insulation. Sleeves through walls and floors shall be cut off flush with inside surface unless otherwise indicated.
  - Vertical sleeves in roofs shall be flashed and counterflashed with lead (4 lb.) or 16 oz. copper and welded or soldered to piping, lapped over sleeve and properly weather sealed. Where sleeves pass through roof construction, sleeves shall extend minimum of 12" above the roof.
- PART 3 - CUTTING:**
  - All openings in plaster, gypsum board or similar materials, shall be framed by means of plaster frames, casing beads, or angle members as required. The intent of this requirement is to provide smooth, even termination of wall, floor and ceiling finishes as well as to provide a fastening means for devices, etc.
  - The Mechanical Contractor shall coordinate all openings in masonry walls with the General Contractor; and, unless otherwise indicated in the Contract Documents, shall provide lintels for all openings required for the mechanical work such as louvers, exhaust fans, etc. Prime point all lintels. Lintels shall be sized as follows:
    - New Openings under 48" in width: Provide one 3/4"x3/8"x3/8" steel angle for each 4" of masonry width. Lintel shall have 8" bearing on each end.
    - New Openings over 48" in width: Consult with Structural Engineer.
  - No cutting shall be performed at location that will weaken the structure and unnecessary cutting must be avoided. If in doubt, contact the Engineer.
  - Pipe openings in slabs and walls shall be cut with core drill. Hammer devices will not be permitted. Edges of trenches and large openings shall be scribe-cut with a masonry saw.
- PART 4 - PATCHING, REPAIRING AND FINISHING:**
  - Patching and repairing made necessary by work performed under this Division shall be included as a part of the work and shall be done by skilled workers of the trade. The work shall be performed in strict accordance with the provisions herein before specified to match adjacent surfaces and in a manner acceptable to the Engineer.
  - Where portions of existing sites, lawns, shrubs, paving, etc. are disturbed for installation of work of this Division, such items shall be repaired and/or replaced back to original or better condition to the satisfaction of the Engineer.
  - Piping and ductwork passing through floors, ceilings and walls in finished areas shall be fitted with chrome plated brass escutcheon trim pieces of sufficient outside diameter to snugly cover the sleeve openings and an inside diameter to closely fit the pipe/duct around which it is installed.
  - Flanged metal collars shall be provided around all ducts, flues, pipes, etc. at all wall penetrations; both sides. Penetrations through any wall will require the installation of flanged collars. Openings shall not be any larger than 2" in any direction then the piping/duct passing through the wall. Openings larger than this requirement shall also be filled to match adjacent construction. Fill void with insulation for sound reduction.

PLUMBING LEGEND	
ABOVE FINISHED FLOOR	AFF
BELOW FINISHED FLOOR	BFF
CAST IRON	CI
CLEANOUT	CO
COLD WATER	CW
DOMESTIC WATER CIRCULATING PUMP	DCWP
ELECTRICAL CONTRACTOR	EC
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 RECEIPTABLE	OR
PLUMBING CONTRACTOR	PC
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(V)---
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	---E(SAN)---
DEMO STORM PIPING	---E(SS)---
DEMO OVERFLOW STORM PIPING	---E(OSS)---
DEMO SANITARY VENT PIPING	---E(V)---
DEMO DOMESTIC COLD WATER PIPING	---E(CW)---
DEMO DOMESTIC HOT WATER PIPING	---E(HW)---
DEMO DOMESTIC HOT WATER RETURN PIPING	---E(HWR)---
DEMO NATURAL GAS PIPING	---E(GAS)---
SANITARY PIPING	---SAN---
STORM PIPING	---SS---
OVERFLOW STORM PIPING	---OSS---
GREASE WASTE PIPING	---GL---
OIL WASTE PIPING	---OIL---
SANITARY VENT PIPING	---V---V---
DOMESTIC COLD WATER PIPING	---CW---
DOMESTIC HOT WATER PIPING (120' F)	---120'---
DOMESTIC HOT WATER RETURN PIPING (120' F)	---120'R---
DOMESTIC HOT WATER PIPING (140' F)	---140'---
DOMESTIC HOT WATER RETURN PIPING (140' F)	---140'R---
FILTERED COLD WATER	---FCW---
DEIONIZED WATER	---DI---
TRAP PRIMER PIPING	---TP---
RELIEF VALVE DISCHARGE	---RVD---
PRESSURE RELIEF VALVE	---PRV---
UNION	---U---
DIAL THERMOMETER	---DT---
PRESSURE GAUGE	---P---
GATE VALVE	---G---
BALANCING VALVE	---B---
SOLENOID VALVE	---S---
GAS SHUT-OFF VALVE	---GS---
CHECK VALVE	---C---
DOUBLE CHECK VALVE ASSEMBLY	---DCV---
BALL VALVE	---B---
BALL VALVE IN RISER	---BIR---
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):**
- 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.
  - 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.
  - INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC., IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING AND/OR THE COLLECTION OF CONDENSATION THEREON.
  - OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS (CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.).
  - 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.
  - WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
  - DO NOT SCALE FROM DRAWINGS, PRINTING DISTORTS SCALE. WORK SHALL BE Laid OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.
  - 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.
  - 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.
  - ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.
  - DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEER AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.
  - 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.
  - 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 ENGINEER PRIOR TO INSTALLATION FOR CLARIFICATION.
  - 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.
  - 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 ENGINEER OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
  - 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.
  - 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.
  - ENSURE PROPER COORDINATION BETWEEN ALL TRADES SUCH THAT CONDUITS, 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.
  - 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.
  - INACCESSIBLE PIPING BURIED IN EXISTING WALLS REMAINING AND CONCRETE SLABS MAY BE ABANDONED IN PLACE. CAP ABANDONED PIPING AND DUCTWORK.
  - ALL NEW SANITARY, STORM AND WATER PIPING SHALL BE CLOSELY COORDINATED WITH NEW STRUCTURE, HVAC DUCTWORK AND PIPING, AND ELECTRICAL.
  - ALL SYSTEM SHUTDOWN PLANS SHALL BE SUBMITTED FOR REVIEW A MINIMUM OF 72 HOURS IN ADVANCE. ALL COORDINATION SHOULD BE ACCOMPLISHED PRIOR TO SUBMISSION.
  - THE CONTRACTOR SHALL CLEAN UP CONSTRUCTION DEBRIS DAILY BEFORE LEAVING THE WORKSPACE.
  - THE WORK AREA NEEDS TO BE SEALED WITH A DUST BARRIER SYSTEM SUCH AS A "ZIP WALL" SYSTEM.
  - ALL DUCTWORK VENTS IN THE AREA IF CONSTRUCTION ARE TO BE SEALED AIRTIGHT.

**CMTA**  
903 Spring Street, Jeffersonville, Indiana 47130  
817.726.8883 www.cmtaeng.com  
Team Contact: Chris Keating

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

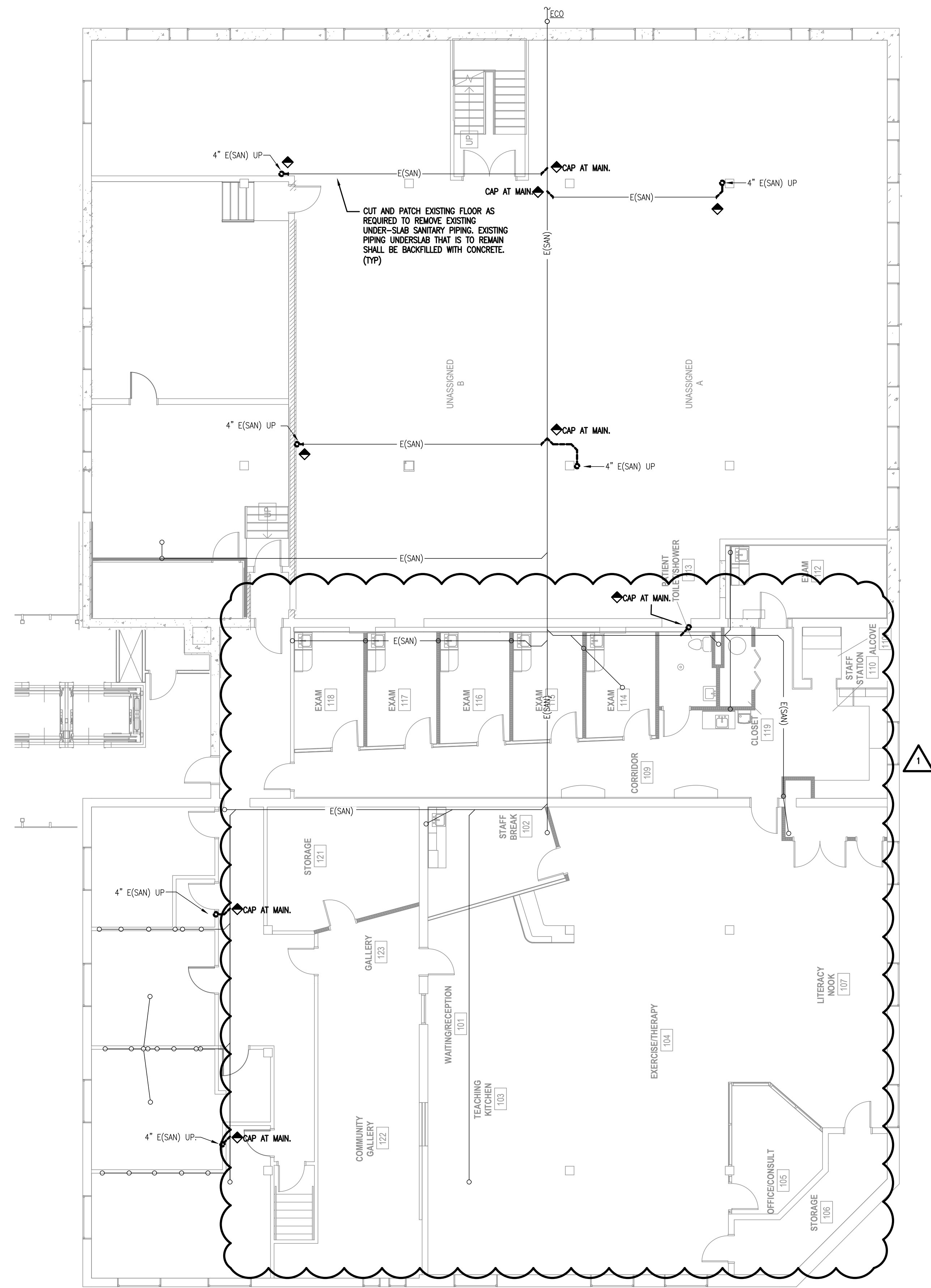
**PLUMBING LEGEND, GENERAL NOTES AND DETAILS**

REVISIONS	
1.	PLAN CHANGES 5/31/2019

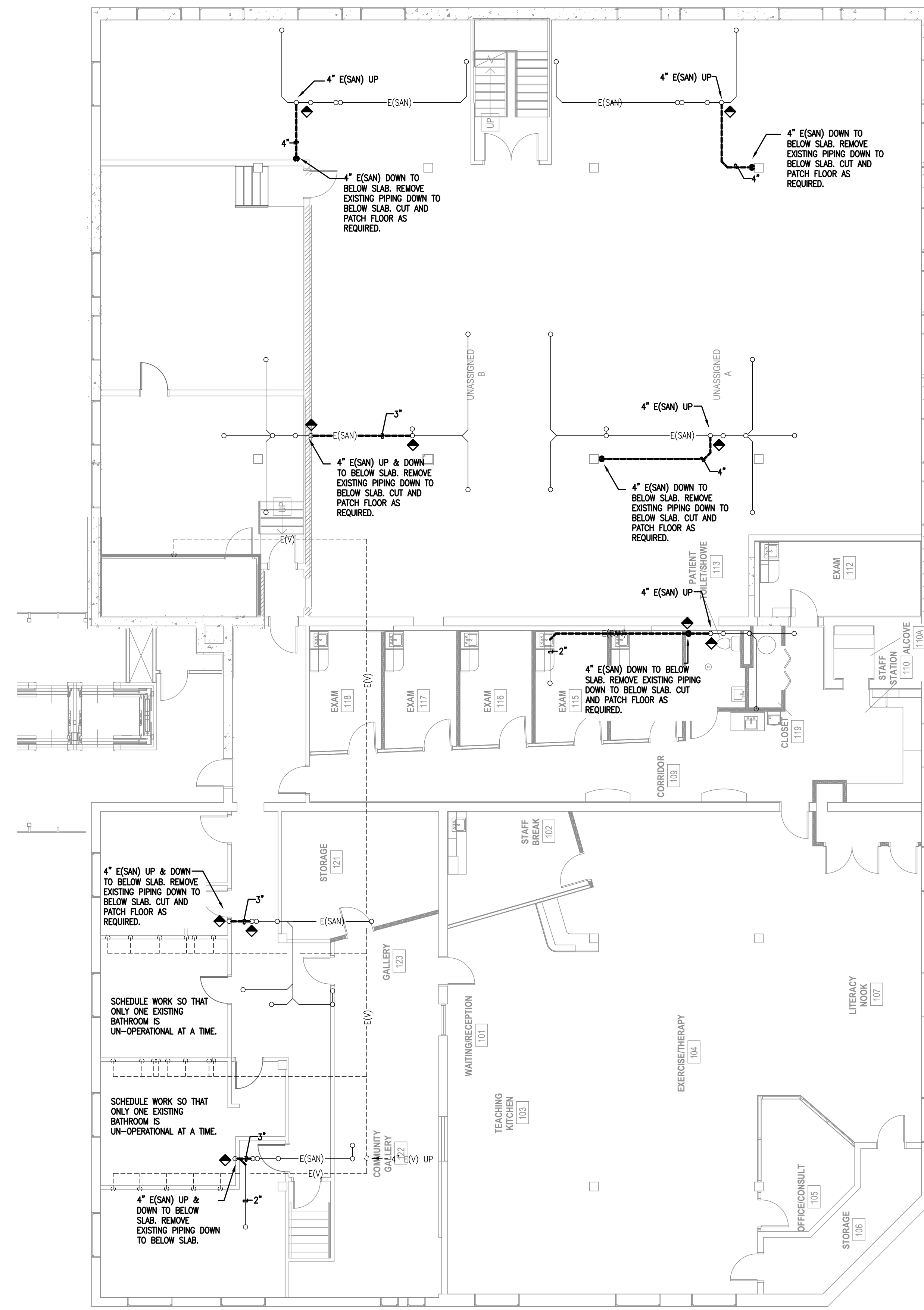
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DRAWN BY CMTA  
CHECKED BY CMTA

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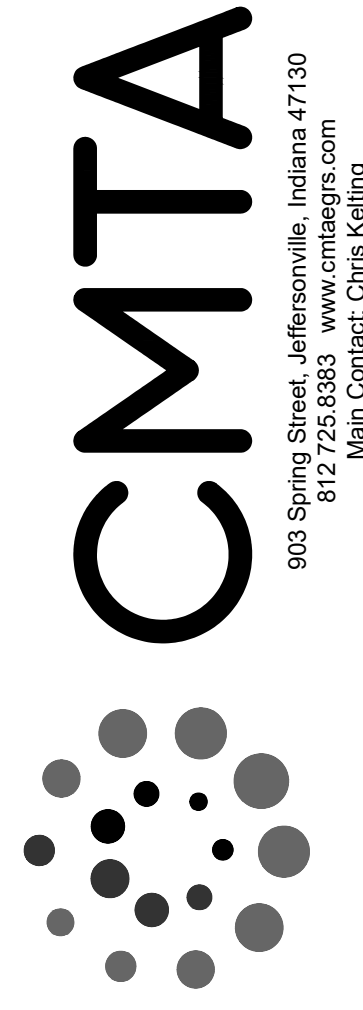
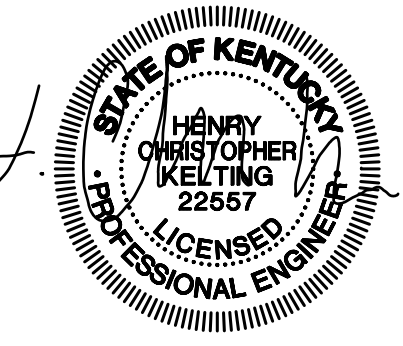
**P1.0**



**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

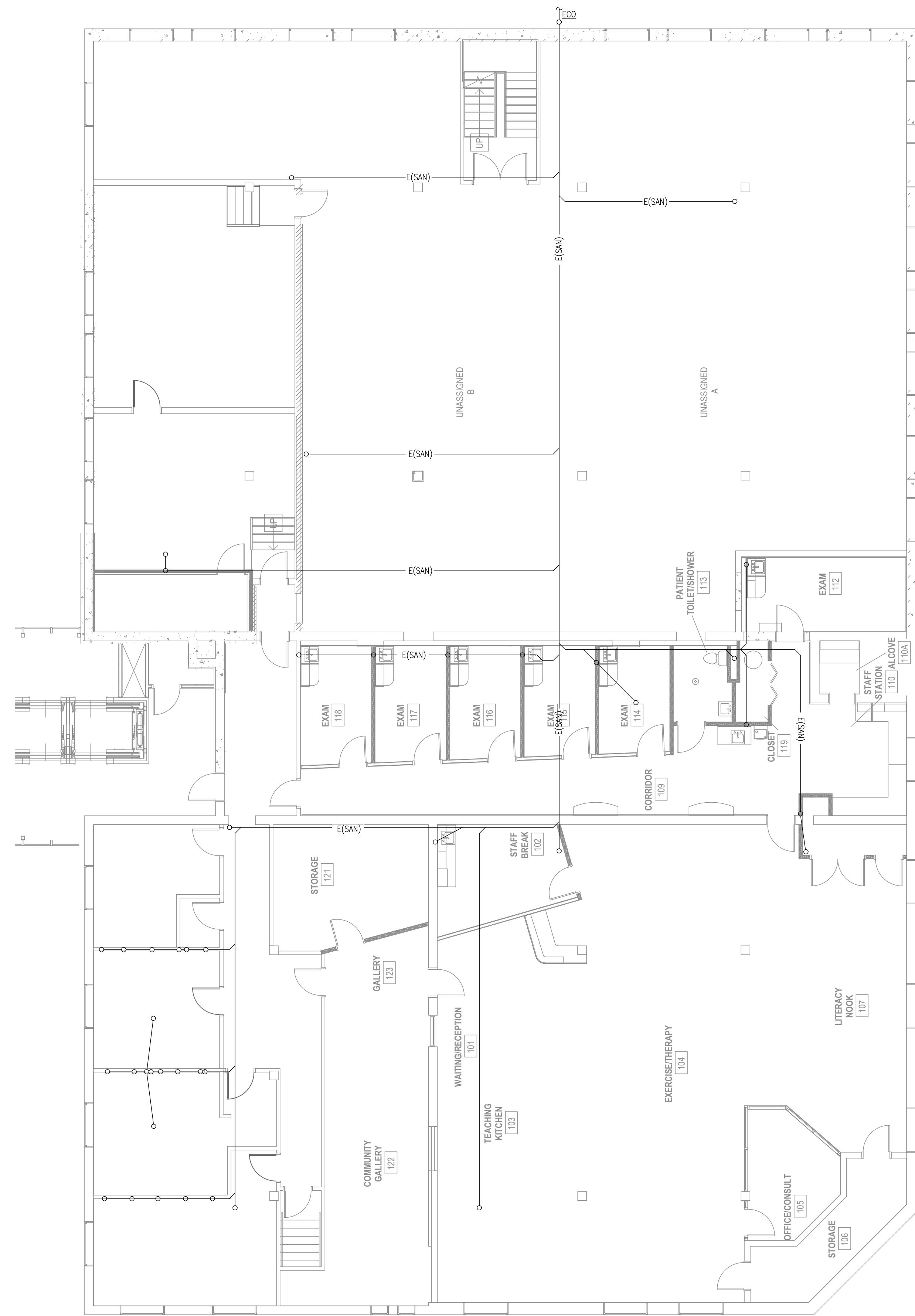
REVISIONS

1. PLAN CHANGES 5/31/2019

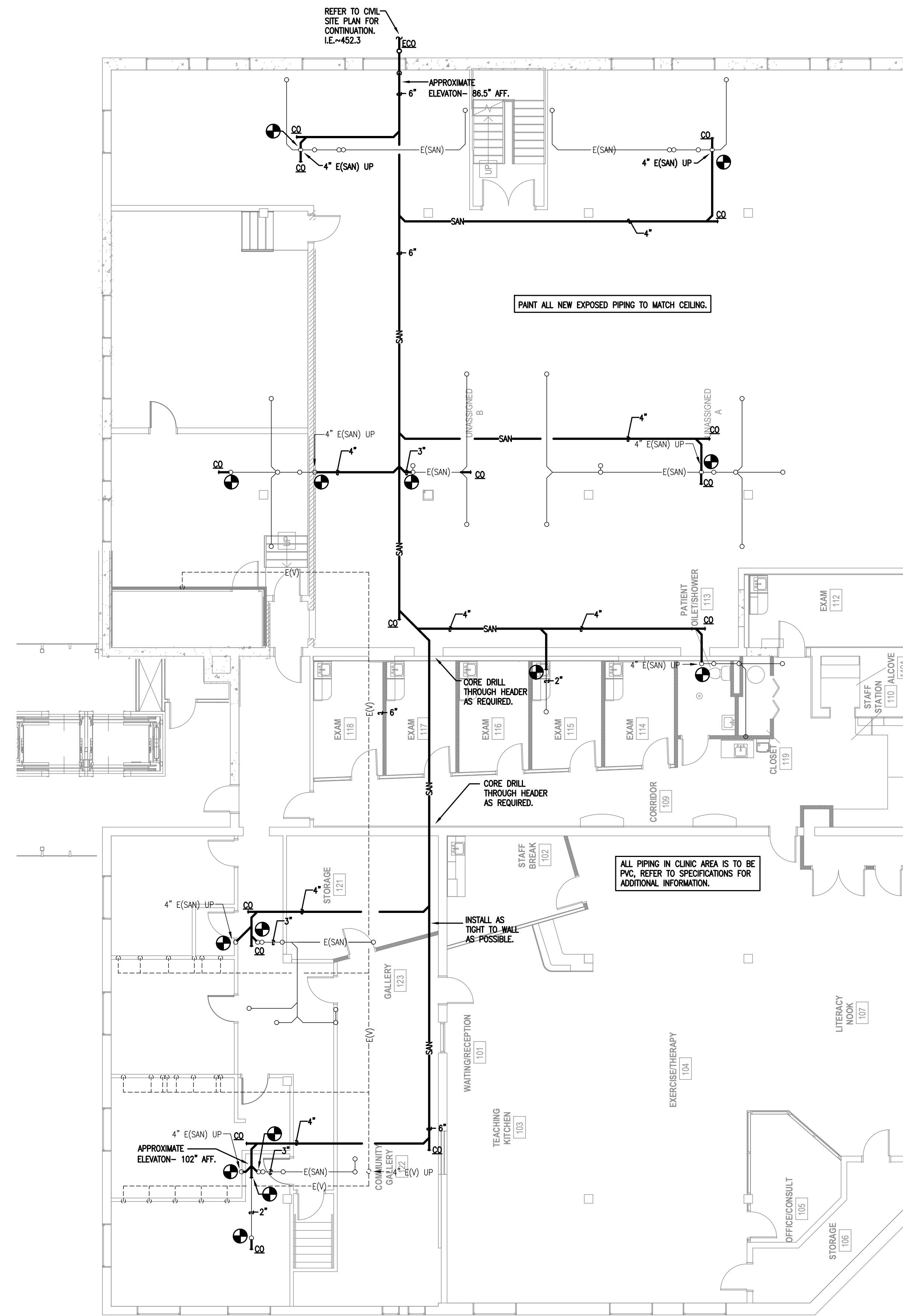
DATE MAY 10, 2019  
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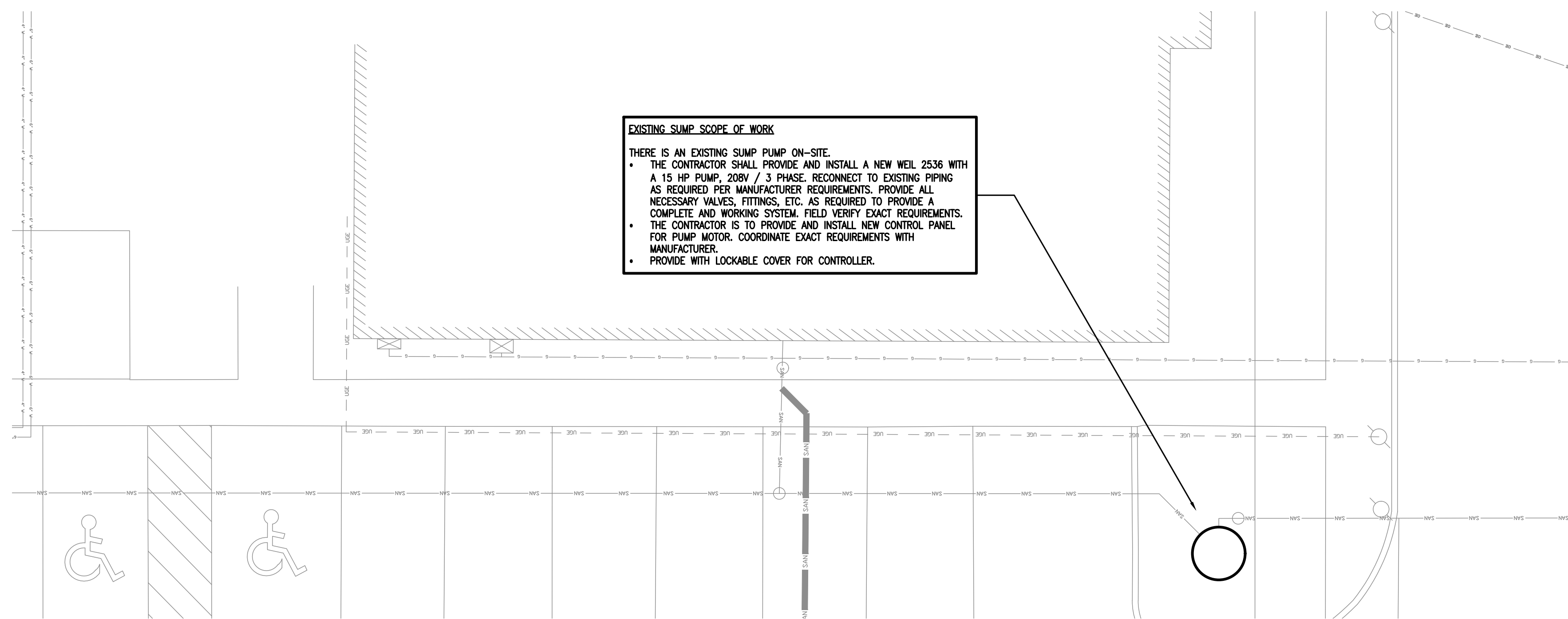
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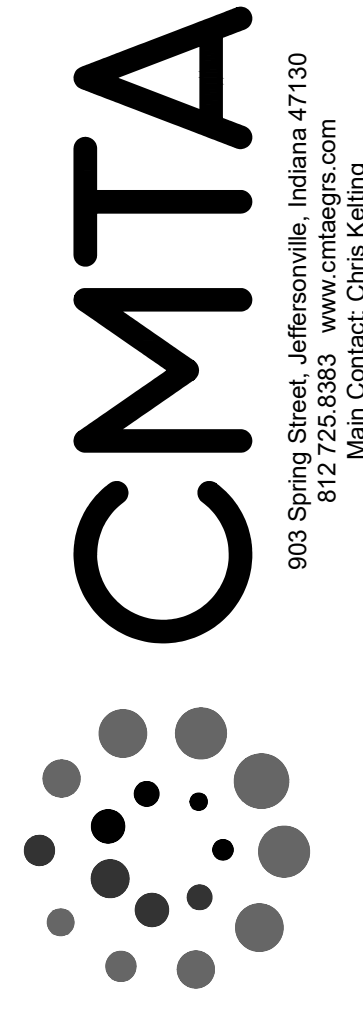
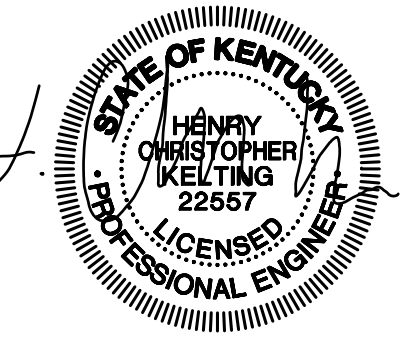
**01 BASEMENT PLAN - UNDER-SLAB PLUMBING**  
SCALE: 3/8" = 1'-0"



**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	
1.	PLAN CHANGES 5/31/2019

DATE MAY 10, 2019  
DRAWN BY CMTA  
CHECKED BY CMTA

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**P3.0**

ELECTRICAL SPECIFICATIONS

1. GENERAL

- A. IN GENERAL, AND TO THE EXTENT POSSIBLE, ALL WORK SHALL BE ACCOMPLISHED WITHOUT INTERRUPTION OF THE EXISTING FACILITIES... B. DRAWINGS SHALL NOT BE SCALED FOR FINAL DIMENSIONS... C. ALL MATERIALS SHALL BE NEW, BE LISTED FOR THE INTENDED USE AND DISPLAY THE U.L. LABEL, WHEREVER POSSIBLE...

2. INTENT

- A. IT IS THE INTENTION OF THESE SPECIFICATIONS AND ALL ASSOCIATED DRAWINGS TO CALL FOR FINISHED WORK, TESTED, AND READY FOR OPERATION... B. MINOR DETAILS NOT COMPLETELY SHOWN OR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND OPERATION SHALL BE NOTED AND ESTABLISHED...

3. DRAWINGS AND SPECIFICATIONS

- A. THE DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE THE GENERAL ARRANGEMENT OF THE SYSTEMS AND ARE TO BE FOLLOWED INsofar AS POSSIBLE... B. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER... C. THE DRAWINGS AND SPECIFICATIONS SHALL BE CONSIDERED TO BE COOPERATIVE AND ANYTHING APPEARING IN THE SPECIFICATIONS WHICH MAY NOT BE INDICATED ON THE DRAWINGS OR CONVERSELY, SHALL BE CONSIDERED AS PART OF THE CONTRACT...

4. CODES, RULES, PERMITS, FEES, REGULATIONS, ETC.

- A. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN AND PAY FOR ALL PERMITS, GOVERNMENT SALES TAXES, FEES, AND OTHER COSTS INCLUDING UTILITY CONNECTIONS OR EXTENSIONS, IN CONNECTION WITH HIS WORK... B. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODES...

5. MATERIALS AND WORKMANSHIP

- A. ALL CONDUIT AND/OR CONDUITS SHALL BE CONCEALED IN WALLS, GIRDERS AND/FLOOR UNLESS OTHERWISE NOTED... B. EACH LENGTH OF CONDUIT, WREYMA, DUCT, CONDUIT, CABLE, FITTING, FIXTURE AND DEVICE USED IN THE ELECTRICAL SYSTEMS SHALL BE STAMPED OR INDELBLY MARKED WITH THE MANUFACTURER'S MARK OR NAME...

6. CLEANING

- A. THE CONTRACTOR SHALL, AT ALL TIMES, KEEP THE AREA OF HIS WORK PRESENTABLE TO THE PUBLIC AND CLEAN OF RUBBISH CAUSED BY HIS OPERATIONS... B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL RUBBISH, ALL OF HIS TOOLS, EQUIPMENT, TEMPORARY WORK AND SURPLUS MATERIALS, FROM AND ABOUT THE PREMISES...

7. IDENTIFICATIONS

- A. PROVIDE PANELS, DISCONNECTS, DISTRIBUTION EQUIPMENT, MOTOR STARTERS, ETC. WITH ENGRAVED LAMACOID PLATE INDICATING EQUIPMENT NAME, PANEL OR CIRCUIT SERVED FROM, LOCATION OF PANEL SERVED FROM, WIRE AND CIRCUIT BREAKER SIZE FOR CIRCUIT SERVED FROM, VOLTAGE AND PHASE, BRANCH OF EMERGENCY POWER IF APPLICABLE, PLATE TO BE RED FOR EMERGENCY, BLACK FOR NORMAL POWER, 1/2" WHITE LETTERING...

8. WARRANTIES

- A. THE CONTRACTOR SHALL GUARANTEE HIS WORK UNCONDITIONALLY IN WRITING TO THE OWNER FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY THE ARCHITECT AND/OR THE ENGINEER...

9. COORDINATION WITH OWNER

- A. THE CONTRACTOR SHALL COORDINATE ALL HIS WORK WITH THE OWNER WHERE ROUTING CONDUIT OR WIRE THRU THE EXISTING BUILDING OR TYING INTO EXISTING DISTRIBUTION EQUIPMENT - PROVIDE 48 HOUR NOTICE TO OWNER IN ADVANCE OF INTERRUPTING ANY SERVICES - WORK CONTINUOUSLY TO RESTORE SERVICE AFTER INTERRUPTION OCCURS...

10. INDEMNIFICATION

- A. THE CONTRACTOR SHALL HOLD HARMLESS AND INDEMNIFY THE ENGINEER, EMPLOYEES, OFFICERS, AGENTS AND CONSULTANTS FROM ALL CLAIMS, LOSS/DAMAGE, ACTIONS, DAMAGES, EXPENSES OF ACTIONS, AND/OR LIABILITY RESULTING FROM, BROUGHT FOR, OR ON ACCOUNT OF ANY PERSONAL INJURY OR PROPERTY DAMAGE RECEIVED OR SUSTAINED BY ANY PERSONS OR PERSONS (INCLUDING THIRD PARTIES), OR ANY PROPERTY BROUGHT OUT OF, OCCURRING, OR ATTRIBUTABLE TO ANY WORK PERFORMED UNDER OR RELATED TO THIS CONTRACT, RESULTING IN WHOLE OR IN PART FROM THE NEGLIGENCE OF THE CONTRACTOR, ANY SUBCONTRACTOR, ANY EMPLOYEE, AGENT OR REPRESENTATIVE...

11. METHODS AND MATERIALS

- A.A. ALL METALLIC CONDUIT, CABINETS, EQUIPMENT AND SERVICES SHALL BE BONDED/GROUNDED IN ACCORDANCE WITH THE LATEST ISSUE OF THE N.E.C., AND/OR AS SPECIFIED HEREIN. PROVIDE SEPARATE GREEN EQUIPMENT GROUND FOR EACH CIRCUIT. BOND SYSTEMS TOGETHER AND WITH BUILDING GROUND AS NEEDED, AND IN ACCORD WITH N.E.C.

12. PATCHING AND REPAIRING

- A. PATCHING AND REPAIRING MADE NECESSARY BY WORK PERFORMED UNDER THIS CONTRACT SHALL BE INCLUDED AS A PART OF THE WORK AND SHALL BE DONE BY SKILLED MECHANICS OF THE TRADE OR TRADES FOR WORK OUT OR DAMAGED. ALL WORK SHALL MATCH ADJACENT SURFACES IN A MANNER ACCEPTABLE TO THE ENGINEER.

B. CONDUIT

- B.A. ALL CONDUIT SHALL BE 3/4" MINIMUM UNLESS OTHERWISE NOTED OR REQUIRED BY THE NATIONAL ELECTRICAL CODE... B.C. STEEL ELECTRICAL METALLIC TUBING (E.M.T.)... B.D. RIGID STEEL CONDUIT (R.S.C.)... B.E. RIGID NONMETALLIC CONDUIT (P.V.C.)... B.F. FLEXIBLE METAL CONDUIT... B.G. STEEL ELECTRICAL METALLIC TUBING (EMT) OF CORROSION-RESISTANT STEEL... B.H. RIGID GALVANIZED STEEL CONDUIT SHALL BE USED WHERE SUBJECT TO PHYSICAL DAMAGE...

C. CONDUIT FITTINGS

- C.A. RIGID CONDUIT FITTINGS SHALL BE OF GRAY IRON, MALLEABLE IRON OR CAST ALUMINUM... C.B. EMT CONDUIT FITTINGS SHALL BE OF THE COMPRESSION TYPE... C.C. RIGID CONDUIT FITTINGS SHALL BE GALVANIZED, TAPERED THREADS WITH ALL BURRS REMOVED, ENDS REAMED AND CUTTING LI. WEPED CLEAN... C.D. CONDUIT BODIES, JUNCTION BOXES AND FITTINGS SHALL BE DUST TIGHT AND THREADED FOR DUSTY AREAS...

D. CONDUCTORS

- D.A. CONDUCTORS SHALL BE COPPER WITH THIN 600 VOLT INSULATION... D.B. CONDUCTORS #10 A.W.G. AND SMALLER SHALL BE SOLID - #8 A.W.G. AND LARGER SHALL BE STRANDED... D.C. MC CABLE WILL NOT BE ALLOWED...

E. DISCONNECT SWITCHES AND FUSES

- E.A. DISCONNECT SWITCHES SHALL BE NEMA RATED FOR THE ENVIRONMENT... E.B. ALL FUSES SHALL BE CURRENT LIMITING, DUAL ELEMENT AND SHALL BE U.L. CLASS RK1 FOR CIRCUIT BREAKER PANELBOARD PROTECTION... E.C. ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITERS' LABORATORIES OR OTHER APPROVED LISTING AGENCY...

F. CIRCUIT BREAKERS

- F.A. ALL EQUIPMENT SHALL BE RATED FOR ACTUAL AVAILABLE FAULT CURRENTS. NEW BREAKERS IN EXISTING EQUIPMENT SHALL MATCH EXISTING EQUIPMENT AIC RATING.

16. DEMOLITION AND SALVAGE

- L. IT IS THE INTENT OF THIS SECTION TO COMPLETELY REMOVE ALL COMPONENTS OF ANY EXISTING ELECTRICAL SYSTEM THAT WILL BE OPEN TO VIEW IN, OR WILL INTERFERE WITH THE OPERATIONS OF THE COMPLETED BUILDING... L.A. CAREFULLY PROTECT ALL OCCUPIED OR IN-USE AREAS DURING ELECTRICAL DEMOLITION WORK... L.B. THIS CONTRACTOR SHALL REPAIR OR REPLACE ANY SURFACES, STRUCTURE, FINISHES, CEILING GRID, ETC. THAT MAY BE DAMAGED BY HIS DEMOLITION OPERATIONS...

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11. METHODS AND MATERIALS

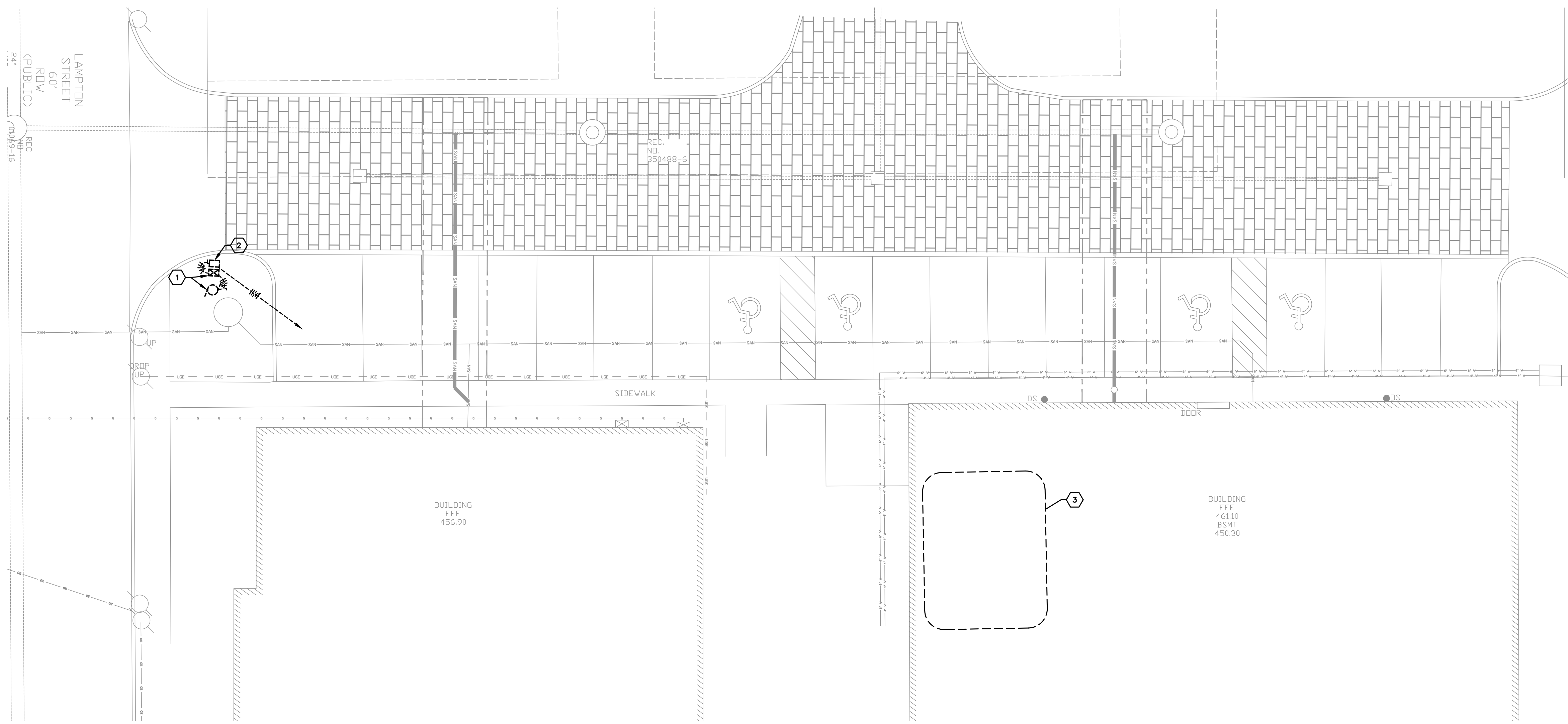
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12. PATCHING AND REPAIRING

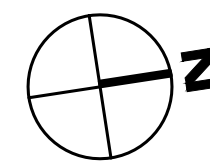
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GENERAL NOTES (LEGEND):

- A. ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING... B. WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES... C. CONTRACTOR SHALL FOLLOW LOCAL, STATE AND DESIGN REQUIREMENTS CONTAINED IN LATEST ADOPTED STATE AND INTERNATIONAL BUILDING CODES... D. ALL OFFERS, TENDERS, FITTINGS, ETC. MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED... E. INSTALL NO FRINGE CONDUIT SYSTEMS... F. WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY... G. WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY... H. INFORMATION FROM SPECIFICATIONS OR PLANS REQUIRING APPROVAL FROM THE ENGINEERS AND CONTRACT... I. MOUNTING HEIGHTS FOR UNMOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO CENTER OF DEVICE UN... J. KESTAL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS... K. ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION... L. THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE-NEW FACILITY... M. ALL SYSTEMS EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A HEAT AND WORKMANLIKE MANNER... N. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN COVERED SPACES SHALL BE COATED WITH AN APPROVED PRIMER... O. WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR WARRANTY IN ANYWAY... P. ANY WEATHERING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS... Q. CHECK ALL THREE PHASE MOTORS WITH A PHASE ROTATION METER... R. PROVIDE DETAILED SHOP DRAWINGS TO ENGINEER PRIOR TO PURCHASING OR INSTALLING EQUIPMENT... S. ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITERS' LABORATORIES OR OTHER APPROVED LISTING AGENCY... T. ALL JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILING SHALL BE LOCATED NO MORE THAN 36" ABOVE CEILING LEVEL... U. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODES... V. ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPLICES... W. ALL CONDUIT SUPPORTS, ETC. SHALL BE RUN THROUGH ACCESS CLEARANCES OF EQUIPMENT BY OTHER TRADES... X. ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK... Y. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM... Z. ALL EXPOSED JUNCTION, OUTLET AND PULLBOXES LEFT EMPTY SHALL BE REMOVED... AA. ALL EXPOSED JUNCTION, OUTLET AND PULLBOXES LEFT EMPTY SHALL BE REMOVED... AB. ALL EXPOSED JUNCTION, OUTLET AND PULLBOXES LEFT EMPTY SHALL BE REMOVED... AC. ALL EXPOSED JUNCTION, OUTLET AND PULLBOXES LEFT EMPTY SHALL BE REMOVED... AD. ALL EXPOSED JUNCTION, OUTLET AND PULLBOXES LEFT EMPTY SHALL BE REMOVED... AE. ALL EXPOSED JUNCTION, OUTLET AND PULLBOXES LEFT EMPTY SHALL BE REMOVED... AF. ALL EXPOSED JUNCTION, OUTLET AND PULLBOXES LEFT EMPTY SHALL BE REMOVED... AG. ALL EXPOSED JUNCTION, OUTLET AND PULLBOXES LEFT EMPTY SHALL BE REMOVED... AH. ALL EXPOSED JUNCTION, OUTLET AND PULLBOXES LEFT EMPTY SHALL BE REMOVED... AI. ALL EXPOSED JUNCTION, OUTLET AND PULLBOXES LEFT EMPTY SHALL BE REMOVED... AJ. ALL EXPOSED JUNCTION, OUTLET AND PULLBOXES LEFT EMPTY SHALL BE REMOVED... AK. ALL EXPOSED JUNCTION, OUTLET AND PULLBOXES LEFT EMPTY SHALL BE REMOVED... AL. 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**01 PARTIAL SITE PLAN - ELECTRICAL DEMOLITION**  
SCALE: 1"=10'-0"

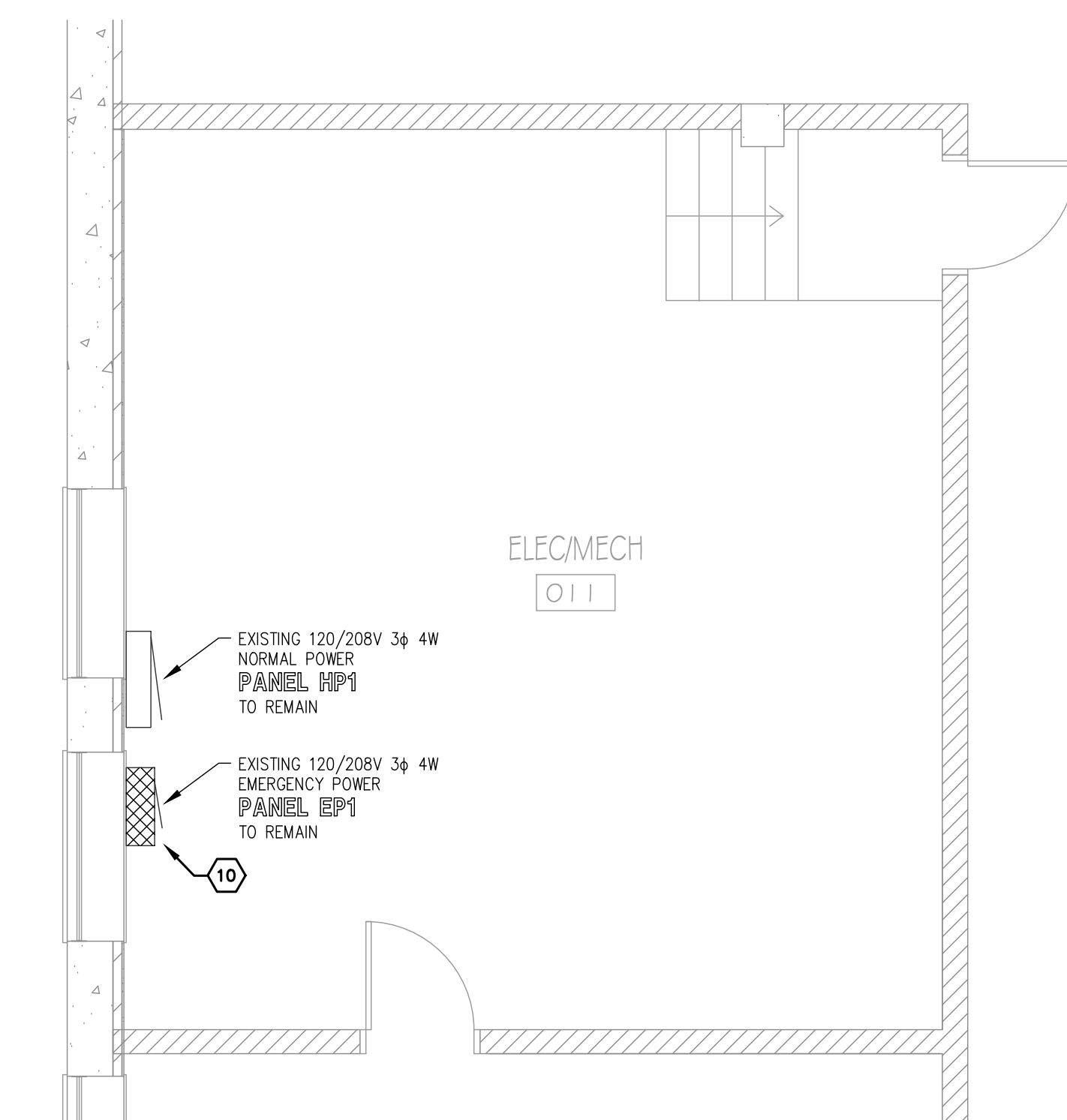


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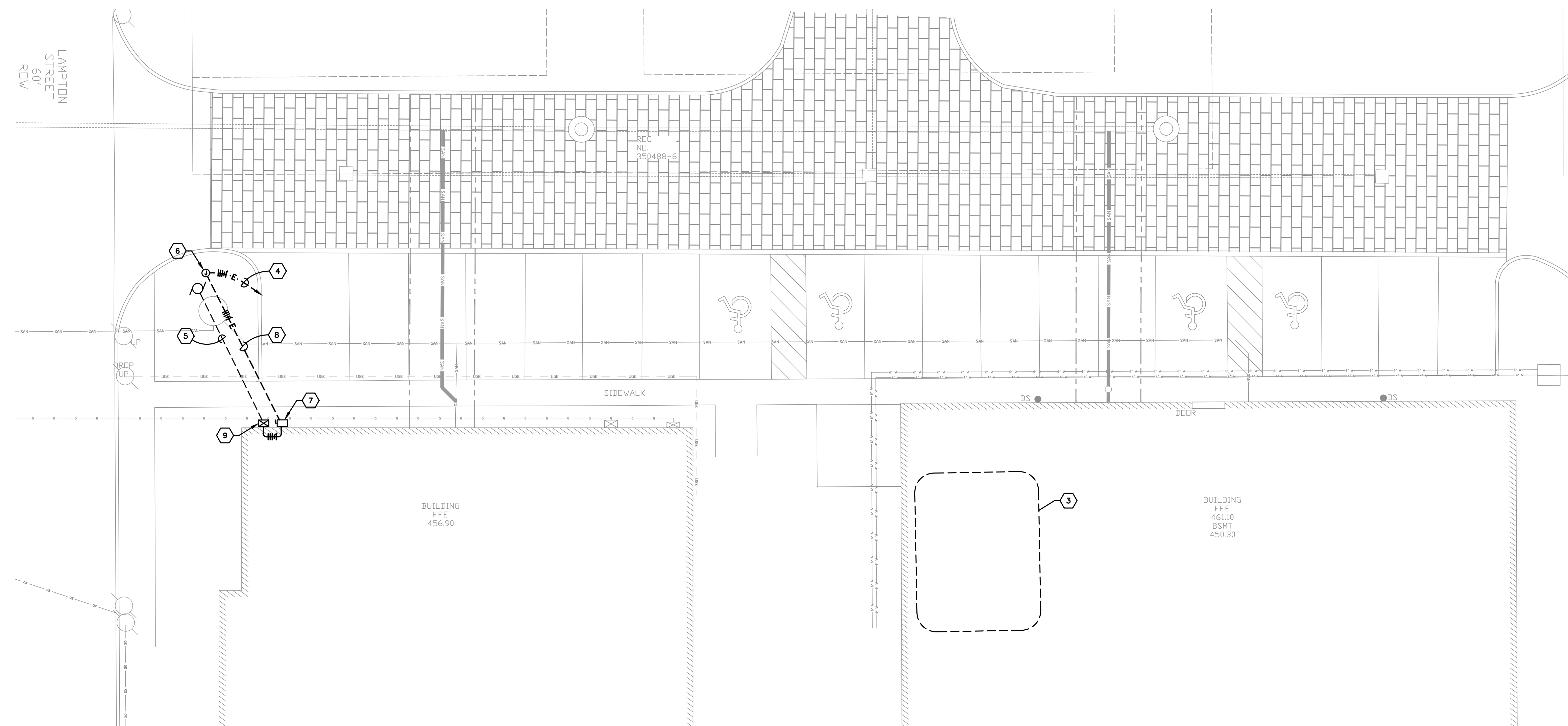
1. EXISTING SEWAGE EJECTOR PUMP AND CONTROL PANEL TO BE REMOVED AS A PART OF MECHANICAL WORK. DISCONNECT POWER TO MAKE DEVICES SAFE FOR REMOVAL AND REMOVE ALL WIRING AND CONDUIT.
2. REMOVE EXISTING DISCONNECT SWITCH ALL ASSOCIATED WIRING BACK TO PANEL "EPI" IN MAIN ELECTRIC ROOM. BELOW GRADE CONDUIT 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 "EPI". 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 TYP 8 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 3S 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 EPI. 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 :**

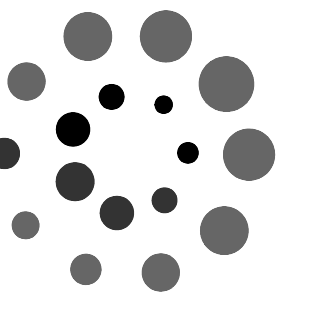
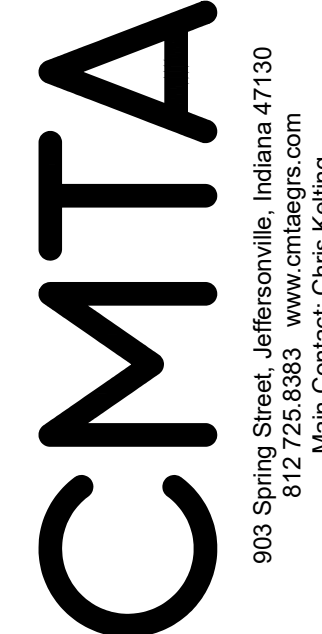
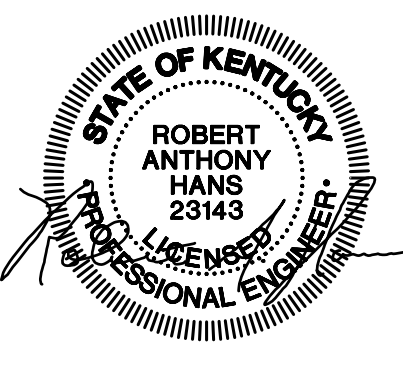
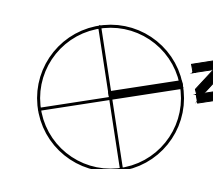
- A. DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS AND COORDINATE WITH CIVIL DRAWINGS AND SURVEYS.
- B. REFER ALSO TO ALL OTHER PLANS AND THE SPECIFICATION, BUT ESPECIALLY TO THE SITE SURVEY & APPROPRIATE MECHANICAL & ELECTRICAL FLOOR PLANS FOR SERVICE CONTINUATIONS. 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.



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



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



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

**ELECTRICAL SITE PLANS**

REVISIONS

NO.	DATE	DESCRIPTION

DATE *May 5, 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 THE 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.
- CONTRACTOR SHALL RESTORE EXISTING PAVEMENT (PAVERS, CONCRETE, ASPHALT) WITHIN UTILITY CUTS IN ACCORDANCE WITH APPLICABLE MSD STANDARD DRAWINGS.

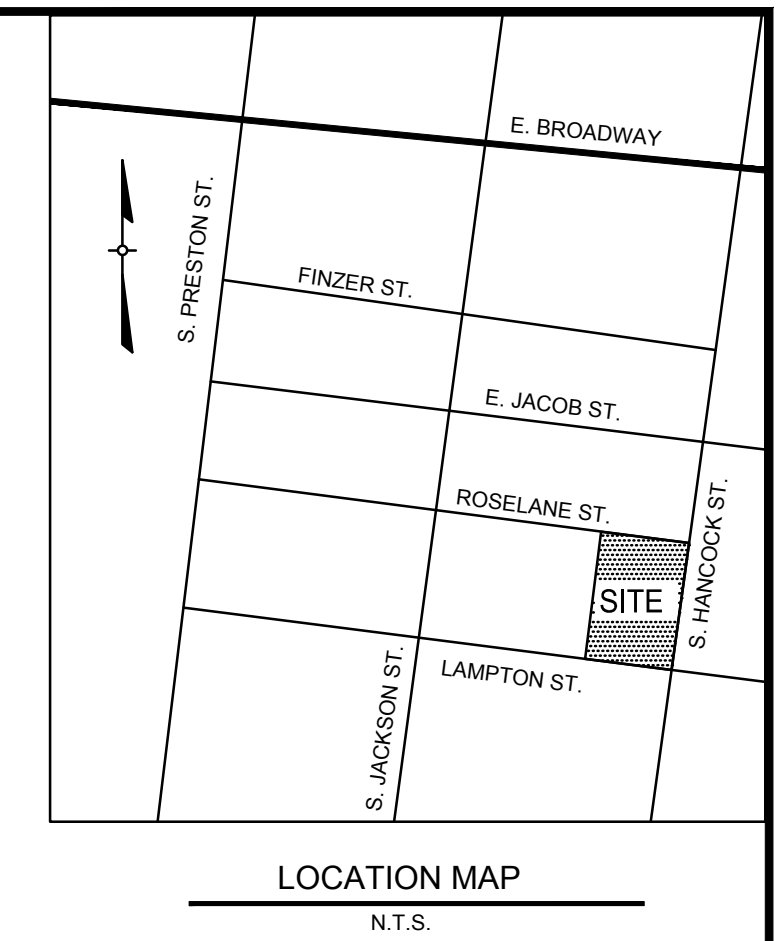
**MSD NOTE:**

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:**

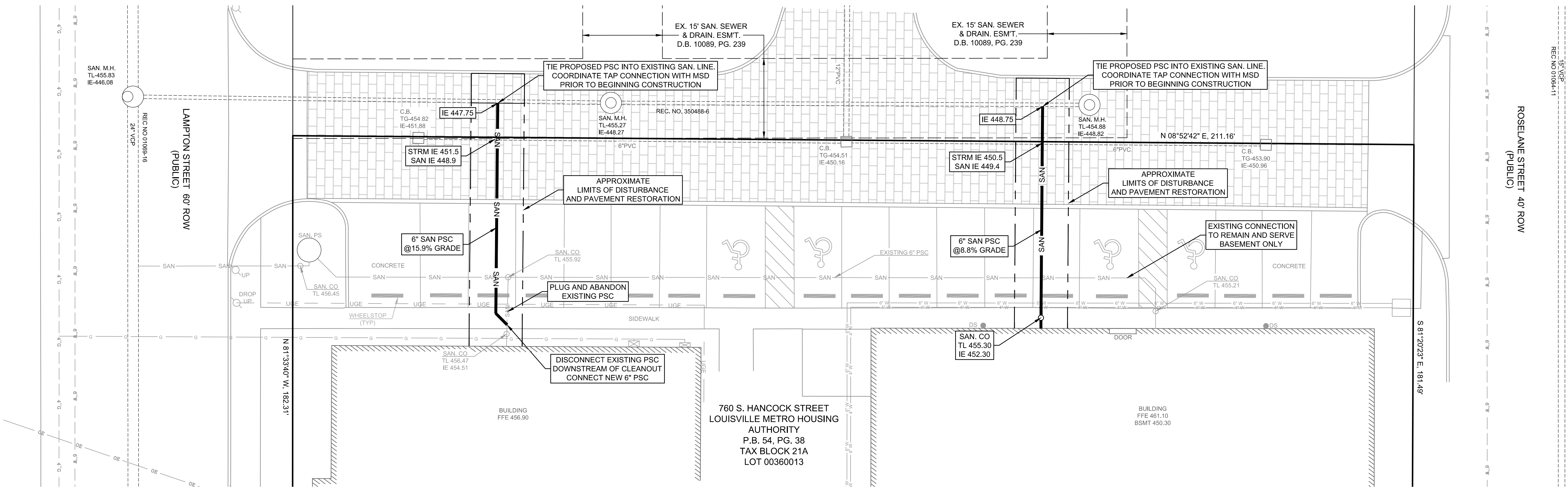
<b>SANITARY DRAWINGS</b>	
PROPERTY SERVICE CONNECTION	SP-01-01
TWO-WAY CLEANOUT	SC-02-02
<b>GENERAL DRAWINGS</b>	
CRUSHED STONE GRADE	GC-01-01
CONCRETE CAP	GC-03-01
CONCRETE ENCASMENT	GC-04-01

(LATEST REVISIONS SHALL BE USED)



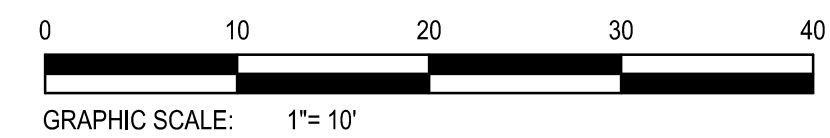
**PAVEMENT NOTES:**

- 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.



**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.



NO.	DATE	DESCRIPTION
1	05-16-2019	ADDITIONAL #1

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

**CIVIL DESIGN, INC.**  
 WBE / DBE / LBE  
 LEAD SURVEYOR / CORP. PERMIT NO. 840  
 ENGINEERING CORP. PERMIT NO. 3294

05/16/2019 DATE

Alexander V. Donenberg  
 30309  
 LICENSED PROFESSIONAL ENGINEER

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

DRWN BY: AD	CHKD BY: AD
DATE: FEB. 14, 2019	
DRAWING: C-1	
SCALE: 1" = 10'	
SHEET 1 OF 1	