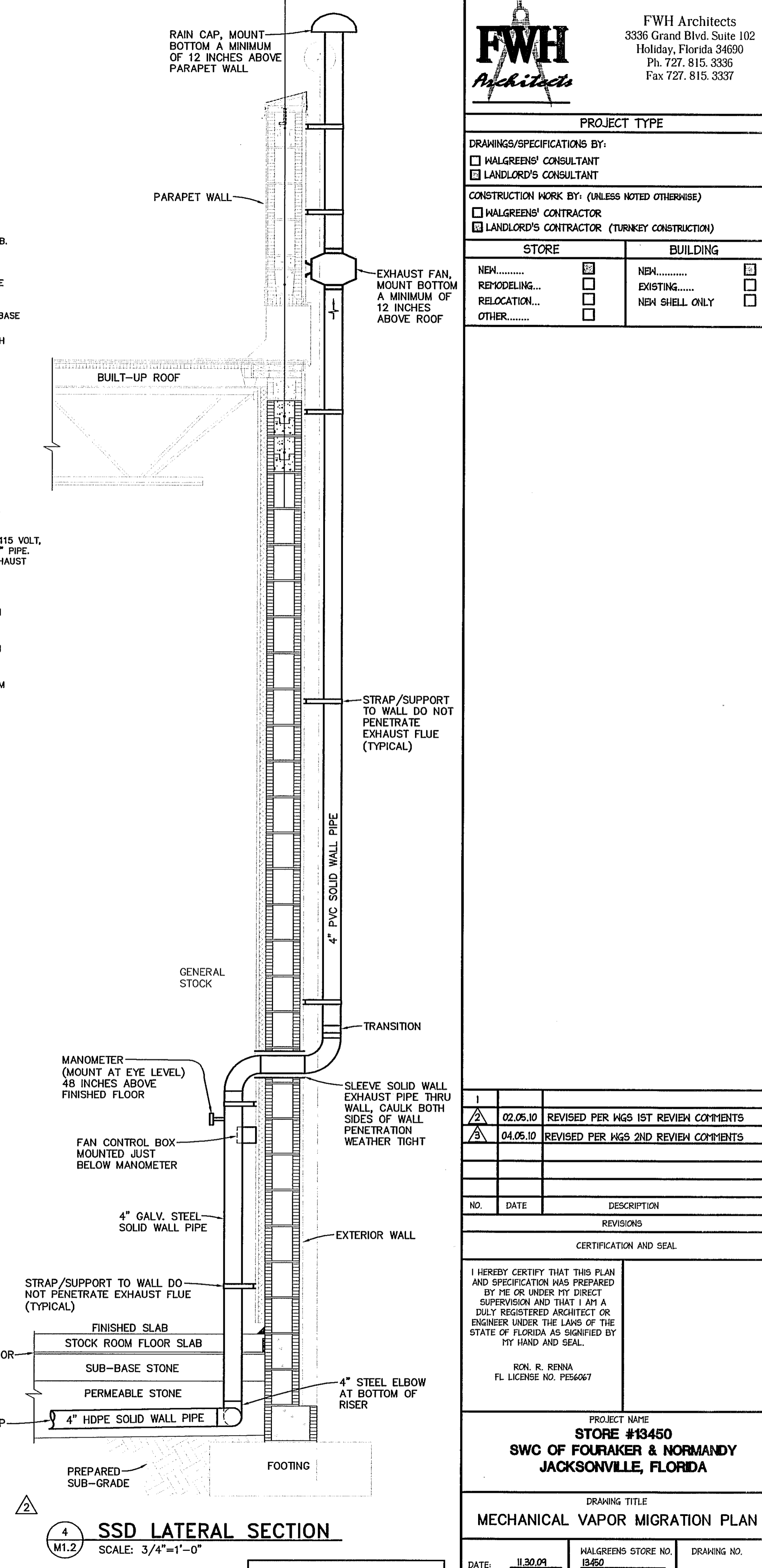
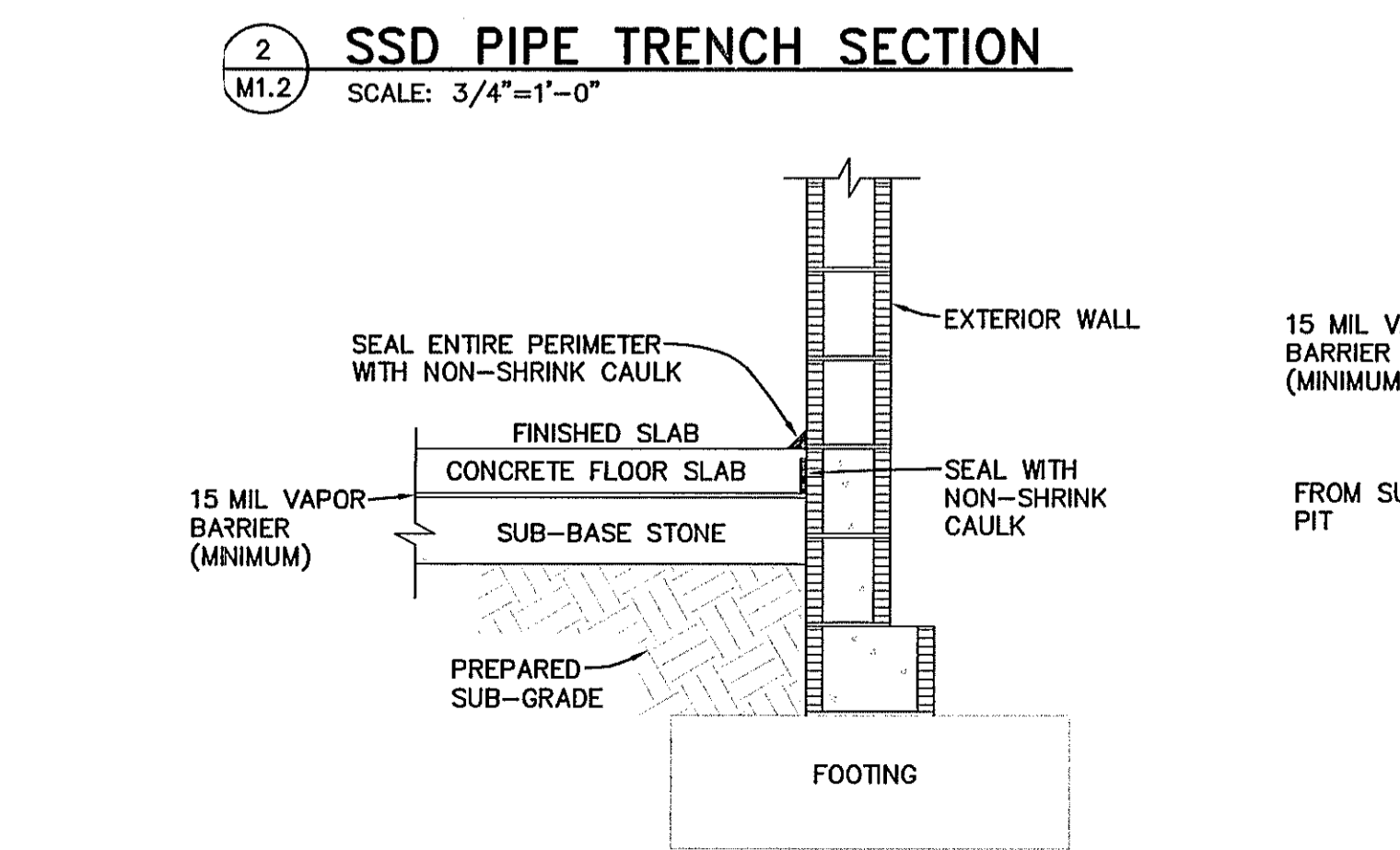
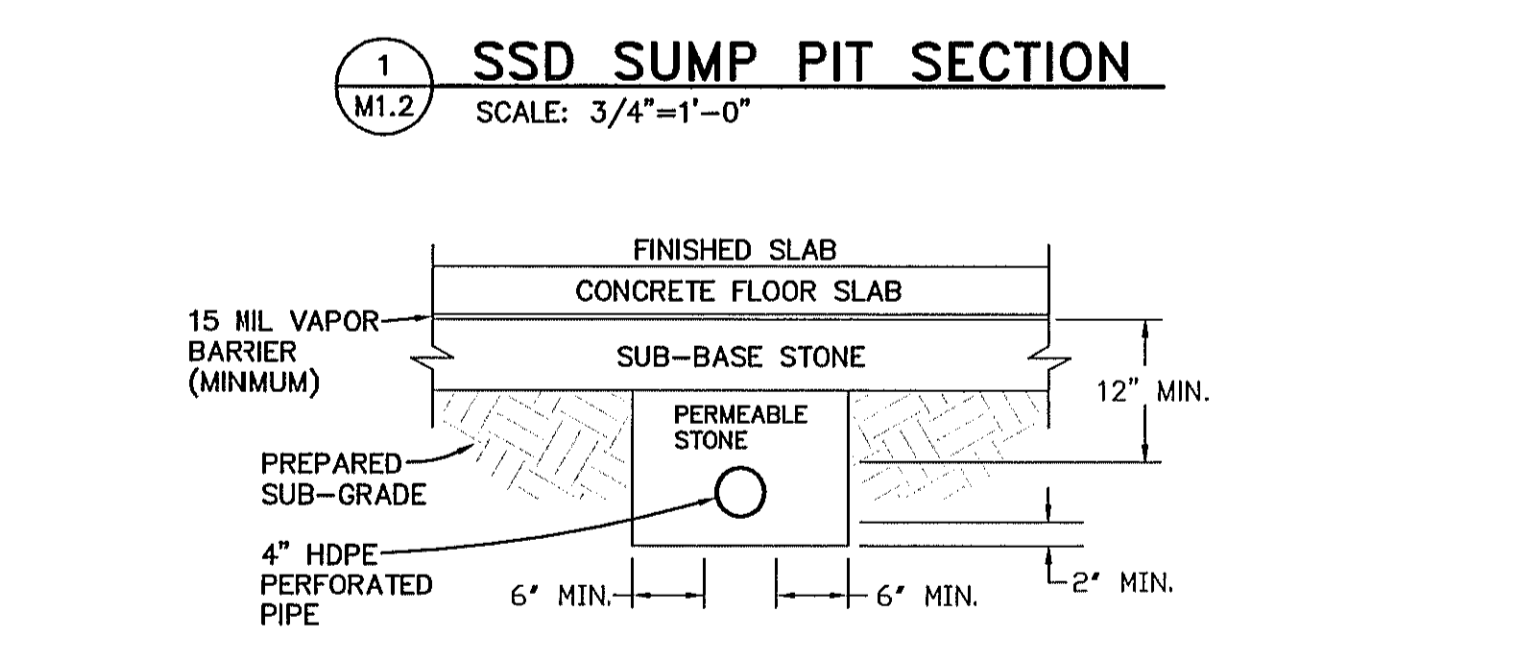
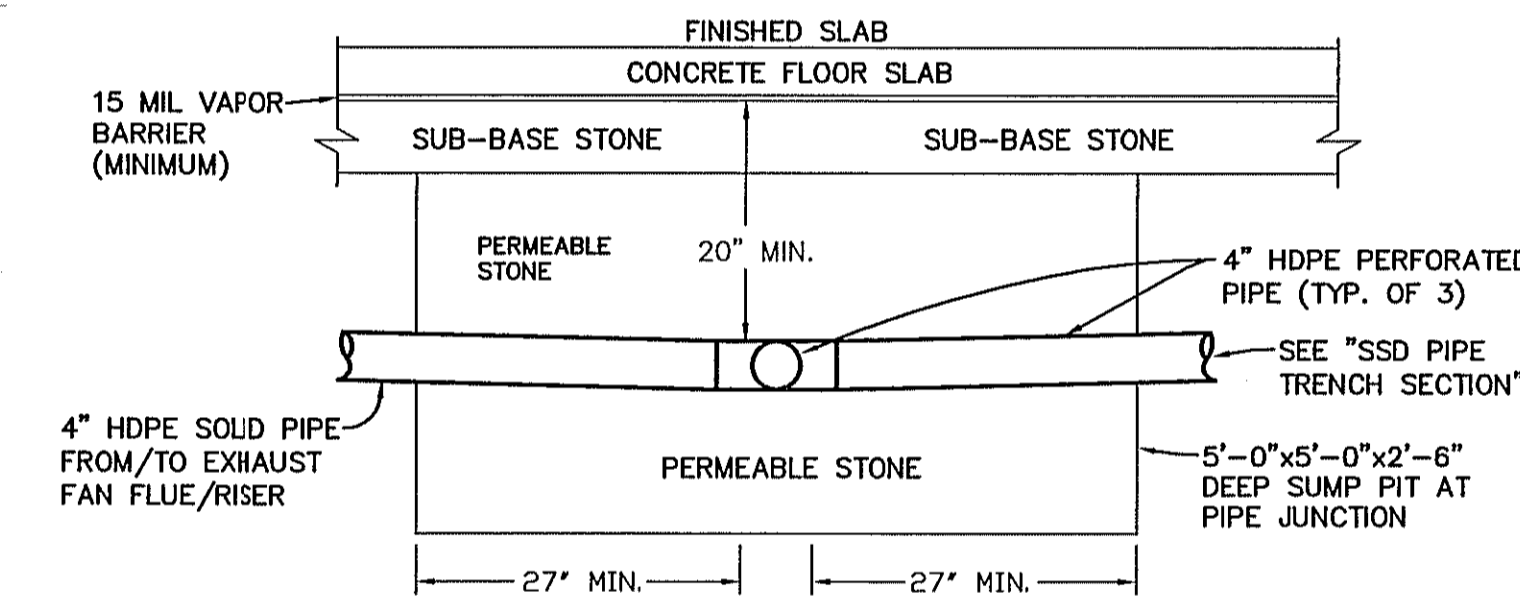
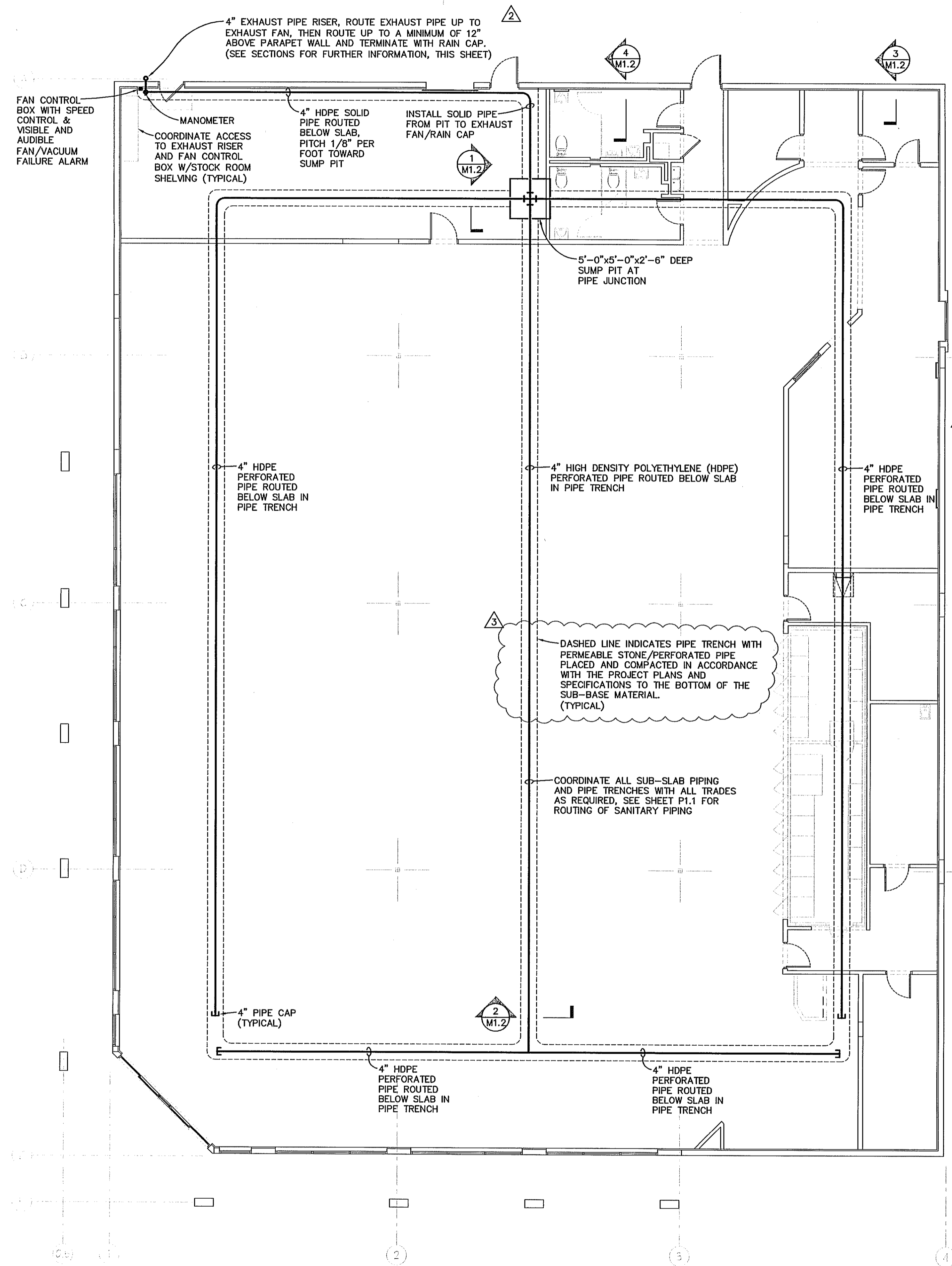


PROJECT TYPE	
DRAWINGS/SPECIFICATIONS BY:	
<input type="checkbox"/> WALGREENS' CONSULTANT	
<input checked="" type="checkbox"/> LANDLORD'S CONSULTANT	
CONSTRUCTION WORK BY: (UNLESS NOTED OTHERWISE)	
<input type="checkbox"/> WALGREENS' CONTRACTOR	
<input checked="" type="checkbox"/> LANDLORD'S CONTRACTOR (TURNKEY CONSTRUCTION)	
STORE	BUILDING
NEW..... <input checked="" type="checkbox"/>	NEW..... <input type="checkbox"/>
REMODELING... <input type="checkbox"/>	EXISTING..... <input type="checkbox"/>
RELOCATION... <input type="checkbox"/>	NEW SHELL ONLY <input type="checkbox"/>
OTHER..... <input type="checkbox"/>	

- RADON REMOVAL GENERAL NOTES AND SPECIFICATIONS:**
- PIPE TRENCHES FOR THE SUB-SLAB DEPRESSURIZATION (SSD) SYSTEM SHALL BE EXCAVATED AT THE LOCATION DEPICTED ON THIS PLAN AND SHALL BE A MINIMUM OF 18 INCHES WIDE BY A MINIMUM OF 13 INCHES BELOW THE SUB-BASE STONE LAYER.
  - A "SUMP PIT" SHALL BE CONSTRUCTED AT THE JUNCTION OF THE SSD PIPE TRENCHES AND SHALL BE APPROXIMATELY 5 FEET BY 5 FEET IN PLAN DIMENSION BY APPROXIMATELY 30 INCHES DEEP.
  - A MINIMUM OF 2 INCH THICK LAYER OF PERMEABLE STONE SHALL BE PLACED WITHIN THE BOTTOM OF THE PIPE TRENCHES AS DEPICTED IN THIS PLAN.
  - THE PERMEABLE STONE SHALL HAVE THE FOLLOWING CHARACTERISTICS: 3/4 INCH CLEAN STONE SUCH THAT 90% OR GREATER PASSES THE 1/2 INCH SIEVE.
  - PRIOR TO PLACING THE PERMEABLE STONE, THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH RESULTS OF SIEVE ANALYSIS FOR APPROVAL BY THE ENGINEER.
  - THE CONTRACTOR SHALL FURNISH ADDITIONAL SIEVE ANALYSIS RESULTS FOR EACH SUPPLIER OF THE PERMEABLE STONE MATERIAL AND/OR WHEN THE SOURCE OF SUPPLY CHANGES FOR APPROVAL BY THE ENGINEER.
  - A 4 INCH DIAMETER PERFORATED PIPE SHALL BE PLACED UPON THE 2 INCH THICK PERMEABLE STONE LAYER AND SHALL BE ALIGNED WITH THE CENTER OF THE TRENCH.
  - THE 4 INCH DIAMETER PERFORATED PIPE SHALL CONSIST OF HIGH DENSITY POLYETHYLENE (HDPE) HEAVY DUTY--AASHTO TYPE PIPE MANUFACTURED BY HANCOR INC., OR EQUIVALENT.
  - FITTINGS SHALL CONSIST OF "TEES", "ELBOWS", "CROSSES" AND/OR SOLID END CAPS.
  - THE TOP OF THE PERFORATED PIPE SHALL BE LOCATED APPROXIMATELY 12 INCHES BELOW THE BOTTOM OF THE CONCRETE SLAB.
  - A 4 INCH DIAMETER SOLID WALL HDPE PIPE SHALL BE CONNECTED TO THE PERFORATED HDPE PIPES AND ROUTED FROM THE "TRENCH PIT" TO THE EXTERIOR WALL WHERE IT WILL BE CONNECTED TO THE "FLUE" PIPE.
  - AFTER PLACING THE PERFORATED PIPING, SOLID WALL PIPING AND FITTINGS, THE PIPE TRENCHES AND THE "SUMP PIT" SHALL BE FILLED WITH PERMEABLE STONE PLACED AND COMPACTED IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS TO THE BOTTOM OF THE SUB-BASE MATERIAL.
  - A VAPOR BARRIER CONSISTING OF POLYETHYLENE SHEETING NOT LESS THAN 15 MILS THICK SHALL BE PLACED OVER THE SUB-BASE MATERIAL AND EXTEND UP ALONG THE FOUNDATION WALL AS DEPICTED ON THIS PLAN (VAPORBLOCK PLUS OR EQUIVALENT).
  - THE POLYETHYLENE SHEETING SHALL BE AFFIXED TO THE FOUNDATION WALL USING A NON-SHRINK ELASTOMERIC CAULK, ENOUGH SHEETING SHALL BE USED SO THAT IT WILL NOT BE STRESSED AND PULL AWAY FROM THE FOUNDATION WALL, FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR OVERLAPPING AND PERIMETER SEALING.
  - PENETRATIONS FOR THE SSD "FLUE" PIPING, INTERIOR COLUMNS, UTILITIES AND/OR OTHER FEATURES SHALL BE SEALED BY CREATING A "SKIRT" AROUND THE ITEM PENETRATING THE POLYETHYLENE SHEETING AND AFFIXED TO THAT ITEM USING A NON-SHRINK ELASTOMERIC CAULK AND THE SHEETING MANUFACTURER'S TAPE. THE FREE END OF THE SKIRT SHALL HAVE A MINIMUM OF A 12 INCH OVERLAP WITH THE SURROUNDING POLYETHYLENE SHEETING AND SHALL BE TAPED USING THE SHEETING MANUFACTURER'S APPLICABLE PRODUCT.
  - A "FLUE" CONSISTING OF A 4 INCH DIAMETER 16 GAUGE GALVANIZED SOLID WALL DUCT PIPE AND ELBOW SHALL BE CONNECTED TO THE SOLID WALL HDPE PIPE WITH A "FERNOCO" CONNECTION.
  - THE "FLUE" PIPE SHALL BE FASTENED TO THE EXTERIOR WALL A MINIMUM OF EVERY 6 FEET OR AS LOCAL CODE REQUIRES FOR SUPPORTING/HANGING DUCTWORK/PIPING. THE STRAPPING SHALL NOT BE AFFIXED TO THE "FLUE" PIPE WITH ANY TYPE OF FASTENER THAT WOULD PENETRATE/PUNCTURE THE "FLUE" PIPE. ALL PIPE JOINTS SHALL BE AIR TIGHT.
  - THE "FLUE" PIPE WILL PENETRATE THROUGH THE ROOF AT THE LOCATION SHOWN ON THIS PLAN. THE FAN EXHAUST MUST BE A MINIMUM OF 12 INCHES ABOVE THE TOP OF THE ROOF PARAPET, A MINIMUM OF 30 FEET ABOVE GROUND LEVEL, A MINIMUM OF 10 FEET AWAY FROM ANY OPENING THAT IS LESS THAN 2 FEET BELOW THE TOP OF THE EXHAUST VENT AND A MINIMUM OF 10 FEET AWAY FROM ANY ADJOINING OR ADJACENT BUILDINGS, HVAC INTAKES OR SUPPLY REGISTERS.
  - AN EXHAUST FAN CAPABLE OF PRODUCING 2.5 INCHES OF WATER VACUUM (ADJUSTABLE) SUCH AS ("FANTECH" MODEL HP190, 115 VOLT, 0.78 MAX. AMPS) SHALL BE INSTALLED ON THE OPEN EXPOSED END OF THE 4 INCH DIAMETER SCHEDULE 40 SOLID WALL "FLUE" PIPE. A "FERNOCO" FITTING SHALL BE USED TO CONNECT THE FAN TO THE PIPE SO THAT IT CAN BE REPLACED IN THE EVENT THE EXHAUST FAN FAILS. THE FAN SHALL BE PROTECTED WITH A SHROUD. FAN TO RUN CONTINUOUSLY 24/7.
  - A RAIN DEFLECTOR/CAP SHALL BE INSTALLED TO THE TOP OF THE EXHAUST FAN RISER TO MINIMIZE RAIN WATER FROM ENTERING THE SYSTEM.
  - THE EXHAUST FAN SHALL BE HARD WIRED ON A DEDICATED CIRCUIT WITH A CIRCUIT BREAKER AND CONFORM TO THE PROVISION OF THE NATIONAL ELECTRICAL CODE AND ANY/ALL OTHER GOVERNING CODES.
  - THE FAN SPEED CONTROLLER WITH AN ALARM (SUCH AS "FANTECH" SPEED CONTROL OR EQUIVALENT) SHALL BE INCORPORATED WITHIN THE ELECTRICAL CIRCUIT TO THE VENT FAN AND SHALL BE LOCATED NEAR THE FAN IN A LOCKED ENCLOSURE OR WITHIN A CONTROL PANEL FOR THE SSD SYSTEM.
  - A "U" TUBE TYPE MANOMETER OR VACUUM GAUGE (SUCH AS VACU-RAY VACUUMETER OR DWYER MAGNETIC VACUUM GAUGE OR EQUIVALENT) CAPABLE OF MEASURING 4 INCHES OF WATER COLUMN VACUUM SHALL BE INSTALLED TO MEASURE THE VACUUM IN THE "FLUE" PIPE OF THE SSD SYSTEM AND SHALL BE LOCATED AT EYE LEVEL AND IN PLAIN VIEW.
  - THE PIPING, MANOMETER, FAN SPEED CONTROL SWITCH AND DEDICATED CIRCUIT BREAKER SHALL BE CLEARLY MARKED AND LABELED TO IDENTIFY SUCH ITEMS.



**RADON REMOVAL FLOOR PLAN - MECHANICAL**  
 SCALE: 1/8"=1'-0" 9064

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PROJECT NAME	
STORE #13450	
SWC OF FOURAKER & NORMANDY	
JACKSONVILLE, FLORIDA	
DRAWING TITLE	
MECHANICAL VAPOR MIGRATION PLAN	
DATE: 11.30.04	WALGREENS STORE NO. 13450
DRAWN BY: JK	SCALE: AS NOTED
REVIEWED BY: RR	RELEASED TO CONSTRUCTION
	DRAWING NO. M1.2
	FWH PROJECT NO. 0918