ADDENDUM NUMBER ONE

April 30, 2018

New Church Our Lady of the Caves Catholic Church Horse Cave, Kentucky



The Contract Documents are modified as follows:

SPECIFICATIONS:

Addendum 01 - Item 01:

Division 00 – Bidding and Contract Requirements

- A. Section 001000 Instruction to Bidders
 - 1. (6.01 B. Submission Procedures)
 - a. Only one (1) copy of the "Form of Proposal" is required to be submitted at the time of bid.
- B. Section 007010 Amendment to General Conditions
 - 1. (11.1.2.1 5. Liability Umbrella)
 - a. Change dollar amount to \$ 1,000,000.00 in lieu of \$ 5,000,000.00

DRAWINGS:

Addendum 01 – Item 02: Drawings – Sheet C 1.3

A. New domestic water supply line to be 2" as indicated on plumbing drawings in lieu of 34" indicated. New 2" meter to be installed by public utility.

Addendum 01 – Item 03: Drawings – Sheet A 2.1

A. The cross shown on front building elevation (west elevation) to be limestone.

Addendum 01 – Item 04: Drawings – Sheet S 1.1

A. Contractor to provide 2"x4" wood blocking at 2'-0" c/c between bottom chords of two adjacent roof trusses fully across the ceiling (from side wall to side wall). This to occur in four locations. (This is to facilitate installation of surface mounted decorative arches at a later date). These locations are to be determined by owner.

Addendum 01 – Item 05: Drawings – Sheet P 0.1, P 2.1, P2.2, M 0.1, M 2.1, E 2.2, E 3.1

A. See revisions on attached drawing sheets. These drawings indicate the installation of a new mop sink and floor drain to be located in Mechanical Room 101. It also includes the installation of a new on-demand electric water heater and associated venting.

Addendum 01 – Item 06: Drawings – Sheet E 0.1

- B. Contractor to provide and install (Two) 1-1/4" conduits (50'-0" in length each) in attic space. Exact location to be determined by the owner.
- C. Panelboards (New) Specification 1st & 2nd paragraphs Panelboards shall include bolt-on type branch breakers from one of the manufacturers listed: Eaton, Cutler Hammer, G.E., or Square D.

Addendum 01 – Item 07: Drawings – Sheet E 2.1

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- A. The 3 type K lighting fixture located near the rear alter are currently shown controlled with one dimmer switch located in room 107. Contractor shall add 2 additional dimmers for control of the type K fixtures. Each type K fixture to be controlled individually with dimmers located in room 107
- B. Refer to space 108 bottom right corner of plan. Just to the left of room 208 in Nave 109 is a type A1 light fixture that also has a K designation adjacent. The type K designation shall be deleted.

Addendum 01 – Item 08: Drawings – Sheet E 2.2

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A. The on-demand electric water heater shown in Alter Boy Sacristy 108 is to be deleted.

Addendum 01 – Item 09: Drawings – Sheet E 3.1

- A. The panel schedule for new panel LA includes a 400/3 Main Circuit Breaker. The buss Amperage on the schedule is also shown as 400 amp. (Note The demand load shown on the panel schedule is 300.4 amps. The demand load is calculated based on diversities listed in the NEC. The service for this building cannot be reduced to a 200 amp service and meet the requirements of NEC for service sizing).
- B. Building Service Grounding Detail The 4 grounding electrodes shown (Bldg. Steel, Water Service Bond, Footing Electrode Bond, Tri-pod Electrode Bond or Ground Ring.) are to be used if available. If the Bldg. steel, metal water line or concrete footing isn't available the driven ground rod (Tri-pod) shall be provided. If any or all of the other electrodes are available they shall be used in addition to the Tri-pod.

Attached:

- a. Pre-Bid Attendees Sign-In Sheet
- b. Revised Drawing Sheets P 0.1, P 2.1, P2.2, M 0.1, M 2.1, E 2.2, E 3.1

END OF ADDENDUM NO. 1

ADDENDUM NUMBER ONE

Pre-Bid Conference

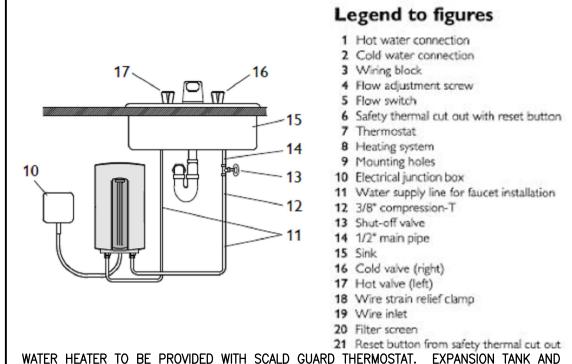
Our Lady of the Caves

New Church Horse Cave, Kentucky

Sign-In Sheet

pg. 1 of 2 April 23, 2018 10:00 am

	Name	Company	Phone	Email
_	Clavena Wenza	of Wengerd (On stacker	engend Constaction 270-268-1900
2	Dany Murphy	Davy Murel	ly Electric	making Electric 160 270-5834
60	Levay Haufforden	Hauffman Bun	Builders 140	290-459-0104
4	Somble Durgerick	Rauffman Builders	lers LAC	570 493 0969
ID.	Tempory threper	Scott Mysely I	ohy Daniel LIC	+ Matcher 25 Galmaphid
(D	Jan Jan	OLC Can	Cermulte	Hunduras Cuerte, con
_	CAMPBELL NANCE	SCOTTYS	270-629-	campbelln@scottyscoutrecting.com
m	I'M KINNER	SDA 270	. 826.8476	210-816-8476 Eskinner a) sda-architecture. com
•				
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DRAIN PAN NOT REQUIRED FOR INSTANTANEOUS WATER HEATER.

ELECTRICAL INSTANTANEOUS WATER HEATER INSTALLATION

Waste and Vent Riser

GENERAL PLUMBING NOTES

- 1. ALL FIXTURES, EQUIPMENT AND PIPING SHALL COMPLY WITH INTERNATIONAL PLUMBING CODE, NFPA, STATE AND
- 2. PLUMBING CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES. 3. OMISSIONS OR MISDESCRIPTION OF DETAILS OF WORK WHICH ARE EVIDENTLY NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS, OR WHICH ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMISSIONS AND DETAILS OF WORK, BUT THEY SHALL BE PERFORMED AS IF FULLY AND
- . PORTIONS OF WALLS AND ARCHITECTURAL FEATURES MAY HAVE BEEN OMITTED FROM THIS PLAN FOR CLARITY OF MECHANICAL FEATURES. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FIXTURES, AND
- 5. VERIFY FIELD DIMENSIONS. COORDINATE WORK WITH ALL OTHER TRADES TO AVOID SPACING AND ROUTING INTERFERENCES.
- 6. REFER TO SITE PLAN FOR ROUTING OF GAS, WATER, SEWER, AND STORM DRAIN PIPING.
- 7. LAY OUT PIPING BASICALLY AS SHOWN. MAJOR CHANGES IN LAYOUT MAY BE MADE ONLY WITH WRITTEN CONSENT OF ARCHITECT OR ENGINEER.
- 8. PROVIDE ELECTRICAL CONTRACTOR WITH EXACT WIRING REQUIREMENTS. IF ELECTRICAL REQUIREMENTS VARY FROM THOSE INDICATED ON PLANS, PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ASSOCIATED ADDITIONAL COSTS.
- 9. SANITARY PIPING SHALL BE RUN BENEATH THE SLAB. PIPING ABOVE CEILING SHALL BE INSTALLED TIGHT TO STRUCTURAL
- MEMBERS, OR WITHIN THE BAR JOIST WEBBING.
- 10. POTABLE WATER PIPING SHALL BE INSTALLED ABOVE THE CEILING. CLEARANCE ABOVE CEILING IS MINIMAL. LAYOUT OF HVAC DUCTWORK SHALL HAVE PRIORITY OVER OTHER TRADES. COORDINATE CAREFULLY WITH GENERAL CONTRACTOR PRIOR TO LAYING OUT WORK. IF REQUIRED, WATER AND VENT PIPING SHALL BE INSTALLED WITHIN THE JOIST WEBBING.
- 11. ALL COMPONENTS USED IN PLENUM SPACES MUST BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
- 12. PLUMBING FIXTURES SHALL BE EQUAL TO FIXTURES SCHEDULED. 13. COLOR OF FIXTURES AND TRIM SHALL BE AS SELECTED BY ARCHITECT.
- 14. FIXTURES INDICATED AS BARRIER-FREE SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA).
- 15. WATER PIPES SHALL HAVE STOPS AT EACH FIXTURE CONNECTION.
- 16. ALL WATER LINES, BOTH HOT AND COLD, SHALL BE AS FOLLOWS: A. LINES BELOW GRADE SHALL BE TYPE "K" SOFT COPPER (UNLESS OTHERWISE NOTED). B. LINES ABOVE GRADE SHALL BE TYPE "L" SOFT COPPER (UNLESS OTHERWISE NOTED).
- C. FITTINGS SHALL BE OF HARD DRAWN COPPER OF ASTM SPEC B-88. D. ALL JOINTING SHALL BE WITH LEAD-FREE SILVER SOLDER.
- 17. ALL WATER PIPING ABOVE GRADE, 1-1/4" AND SMALLER SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS WITH A MINIMUM 'R' VALUE OF 3.6.
- 18. ALL WATER PIPING ABOVE GRADE, 1-1/2" AND LARGER SHALL BE INSULATED WITH 1" THICK FIBERGLASS WITH A MINIMUM 'R' VALUE OF 3.6.
- 19. PROVIDE SHUTOFF VALVES AT ALL MAIN BRANCH LINES FOR ISOLATION.
- 20. WALL HYDRANTS SHALL BE MOUNTED 18" ABOVE FINISHED GRADE.
- 21. INSTALL SHOCK ABSORBERS ON ALL FLUSH VALVE FIXTURES AND QUICK-CLOSING INLET VALVES. ENSURE THAT ACCESS PANELS ARE INSTALLED FOR ALL SHOCK ABSORBERS.
- 22. ALL WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC CONFORMING TO ASTM D-1785. PIPING 2" AND SMALLER SHALL BE LAID OUT AT 1/4" PER FOOT GRADE. PIPING 3" AND LARGER SHALL BE LAID OUT AT 1/8" PER FOOT GRADE. 23. CONTRACTOR SHALL PROVIDE TRAP PRIMERS FOR FLOOR DRAINS AS INDICATED ON DRAWINGS.
- 24. ALL VENT PIPING WITHIN PLENUM OR AIR-HANDLING SPACES SHALL BE COPPER OR CAST IRON, AND SHALL BE LABELED AS "VENT".
- 25. ALL VENTS SHALL BE A MINIMUM OF 10'-0" AWAY FROM FRESH AIR INTAKES AND OPERABLE WINDOWS.
- 26. VENT PIPING SHALL BE LAID OUT SUCH THAT ALL ROOF PENETRATIONS SHALL BE ON BACK SIDE OF ROOF. PAINT EXPOSED VENT PIPING TO MATCH ROOF.
- 27. COORDINATE ROOF PENETRATIONS WITH ROOFING CONTRACTOR. ENSURE THAT WARRANTY REQUIREMENTS OF ROOFING MANUFACTURER ARE SATISFIED.
- 28. GAS PIPING SHALL BE BLACK STEEL. GAS PIPING TO BE INSTALLED BELOW GRADE SHALL BE MILL WRAPPED FOR
- 29. FIT ALL PIPES PASSING THROUGH MASONRY AND JOB CAST CONCRETE WITH SLEEVES. CAULK SPACE BETWEEN PIPE
- 30. ALL WATER LINES SHALL BE CAPPED AND TESTED AT 100 PSI FOR 24 HOURS. ALL WASTE PIPING SHALL BE TESTED
- WITH A 10'WATER COLUMN FOR A 2 HR PERIOD WITH NO CHANGE IN LEVEL. 31. DISINFECTION OF POTABLE WATER SYSTEM — NEW OR REPAIRED SYSTEMS SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED PRIOR TO UTILIZATION. THE METHOD TO BE FOLLOWED SHALL BE THAT PRESCRIBED BY THE HEALTH AUTHORITY OR WATER PURVEYOR HAVING JURISDICTION. IN THE ABSENCE OF A PRESCRIBED METHOD, THE PROCEDURE
- 32. MATERIALS, EQUIPMENT, AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF

DESCRIBED IN EITHER AWWA C651 OR AWWA C652, OR AS DESCRIBED IN SECTION 610 OF THE INTERNATIONAL

- ACCEPTANCE. DEFECTS WHICH APPEAR DURING THIS PERIOD SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. 33. WHEN MAKING FINAL CONNECTIONS TO EQUIPMENT AND PLUMBING FIXTURES, CONTRACTOR SHALL FURNISH CUTOFFS, TRAPS, STOPS, FAUCETS, ELBOWS, VACUUM BREAKERS, INSULATION, ETC.
- 34. ENSURE THAT ALL PENETRATIONS OF FIRE WALLS ARE PROPERLY FIRESTOPPED.
- 35. ALL PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE SLEEVED, PATCHED, OR FIRE PROOFED AS REQUIRED. IN EXPOSED AREAS, PATCHING SHALL MATCH FINISH. SEE ARCHITECTURAL DRAWINGS.
- 36. REFER TO ARCHITECTURAL REQUIREMENTS FOR THE NECESSITY OF SUBMITTALS. SUBMITTALS ARE NOT REQUIRED UNLESS REQUIRED BY THE ARCHITECT. IF SUBMITTALS ARE REQUIRED PLEASE SUBMIT IN ELECTRONIC FORMAT (HARDCOPIES WILL NOT BE REVIEWED) THE FOLLOWING SECTIONS/EQUIPMENT FOR REVIEW: PLUMBING FIXTURES.

PLUMBING GENERAL NOTES

<u>PLUMBING</u>

PLUMBING ACCEPTABLE MANUFACTURERS

- . Fixtures: Kohler, American Standard, Crane, Eljer, Toto, Zurn. Brass Trim: McGuire Engineered Brass Company, Brasscraft, Zurn.
- Floor drains, hydrants, carriers and p-traps: Jay R. Smith, Zurn, Wade Josam, Mifab. Flush valves: Toto, Sloan, Zurn,
- Toilet Seats: Olsmite, Beneke, Bemis, Church, Centoco. Faucets: T & S Brass and Bronze Works, Delta Commercial, Chicago Faucet Company, Kohler, Zurn, Pre-fabricated insulation on water lines and p-trap under barrier free lavatories and sinks: Brocar
- Products, inc., Trap Wrap Truebro, Inc., McGuire Pro-wrap. Thermostatic mixing valves: Symmons, Holly, Lawler, Powers, Leonard. 2 i. Electric water esolers: Elkey, Haws Halsey, Taylor, Oasis. j. Service Sinks: Stern Williams, Fiat, Zurn.

PLUMBING FIXTURES

b. Mounting: 18" A.F.G.

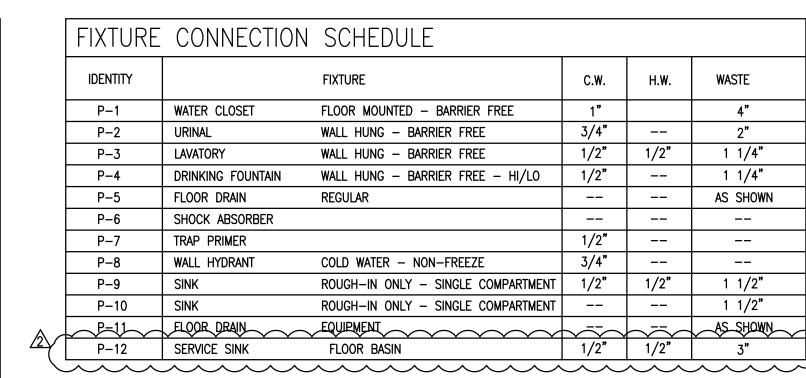
- P-1 WATER CLOSET FLOOR MOUNTED BARRIER FREE a. Fixture: Toto #CT705ELN floor mounted water closet, 1.6 gallon per flush.
- b. Seat: Toto #SC534 white open front seat with check hinge. c. Valve: Toto #TMT1NN-32 flush valve, 1.6 gallon per flush.
- a. Fixture: Toto #UT447E washout type urinal, 0.5 gallon per flush. b. Valve: Toto #TMU1LN12#CP flush valve, 0.5 gallon per flush.
- Mounting: 17" A.F.F. to rim. d. Carrier: Mifab #MC-31 fixture carrier.
- P-3 LAVATORY WALL HUNG BARRIER FREE a. Fixture: Toto #LT307.4 wall hung lavatory with 4" centers.
- Faucet: Symmons #S-20-0 single lever faucet c. Trim: McGuire #155WC grid drain with 1-1/4" tailpiece offset for wheelchair use. McGuire #8872 1-1/4" P—trap, McGuire #H—2165 supply stops.
- Mounting: 34" A.F.F. to basin rim. e. Pre-fabricated insulation on water lines and P-trap under barrier free lavatories and sinks: Brocar
- Products, Inc. Trap Wrap, TruBro, Inc. Handi Lav-Guard, or McGuire Pro-Wrap. Thermostatic Mixing Valve: Apollo #MVD-LF (34D Series) tempering water valve to be located beneath
- g. Carrier: Mifab #MC-41 fixture carrier.
- P-4 DRINKING FOUNTAIN WALL HUNG BARRIER FREE (HI/LO) a. Fixture: Elkay #EZSTL8C, 8.0 GPH at 90 degrees room temperature. All exposed surfaces to be stainless steel.
- b. Trim: McGuire #8872 1-1/4" P-trap, McGuire #HST-2 supply stop. Provide insulation for P-trap. c. Mounting: Mount per manufacturer's recommendations for ADA compliance.
- P-5 FLOOR DRAIN REGULAR a. Fixture: Mifab #F1000-C-5-7 floor drain with sediment bucket and trap primer connection.
- a. Fixture: Sioux Chief #650 series sized per manufacturer's recommendations.
- a. Fixture: Sioux Chief #695-01 sized as required to serve number of drain as shown on drawings.
- P-8 WALL HYDRANT COLD WATER NON-FREEZE a. Fixture: Mifab #MHY-20 non-freeze hydrant with vacuum breaker. Finish to be selected by architect/owner.
- P-9 SINK S.S. (ROUGH-IN ONLY) SINGLE COMPARTMENT a. Fixture: Stainless steel sink, strainer, tailpiece and faucet by others, Contractor installed.
- b. Trim: McGuire #8904 2" P-trap, McGuire #H-2165 supply stops.
- P-10 SINK S.S. (ROUGH-IN ONLY) SINGLE COMPARTMENT
- a. Fixture: Stainless steel sink, strainer, and tailpiece by others, Contractor installed. b. Trim: McGuire #8904 2" P-trap.
- a. Fixture: Mifab #F1340-5-7-14 floor drain with sediment bucket and trap primer connection. a. Fixture: Stern Williams #SB-900-BP, 24" x 24" x 12" with stainless steel cap and 3" chrome drain. Faucet: Chicago Faucet #897-CP, mount 36" A.F.F. to faucet, vacuum breaker and integral stops.
- <u>EXECUTION</u> A. Connect to plumbing fixtures and equipment provided under this schedule, specifications, architectural drawings,
- and manufacturer's shop drawings. Provide rough—in connections as shown on drawings. B. Use schedule and details on drawings or manufacturer's shop drawings for connection sizes to fixtures.
- C. Connect wall urinals to waste piping with red brass nipples.
- D. Provide separate p-trap for each fixture, floor drain, and piece of equipment.
- E. Provide outlet devices which limit the flow of hot water to lavatories and sinks to a minimum of 0.5 GPM, sized as recommended by manufacturer and as required under ASHRAE Standard 90-75, paragraph 7.7.2 or local or
- F. Install lavatories and sinks with a minimum of 4" clearance on each side from a wall or partition.

Water Riser

- G. Install water closets with a minimum of 15" clearance from the centerline of the bowl to each side from a wall, partition, divider, or another fixture. Barrier free water closet shall have a minimum of 18" clearance.
- H. Water closets shall be a minimum of 21" clearance in front of the bowl.
- I. Coordinate dimensions required for minimum clearances with other trades.
- J. Caulk around joists of fixtures on wall or floor, and fixtures backed up to wall. K. Mount fixtures rigid to walls as shown on drawings or details.
- L. Install flush valves on wide side of water closet as required for ADA accessibility.
- A. Inspect and test work to insure that it is installed in accordance with drawings and specification and is functioning as designed. Test procedures and pressures per local and state codes.

PLUMBING FIXTURE SPECIFICATION

B. Correct all deficiencies found and retest.



PLUMBING	G LEGEND		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	COLD WATER		BALL VALVE
	HOT WATER		EXTERIOR CLEANOUT
	WASTE LINE	P-1,ETC	FIXTURE IDENTIFICATION
	VENT PIPE	<u> </u>	PIPE TURNED UP
——G——	GAS LINE OR MAIN		PIPE TURNED DOWN
	GAS COCK		

PLUMBIN	G ABBREVIATIONS		
C.W	COLD WATER	E.C.O.	EXTERIOR CLEANOUT
H.W.	HOT WATER	F.D.	FLOOR DRAIN
V.T.R.	VENT THRU ROOF	A.F.F.	ABOVE FINISHED FLOOR
W	WASTE	A.F.G.	ABOVE FINISHED GRADE
		W.C.O.	WALL CLEANOUT

ELEC	CTRI	C V	VATER HEAT	ER SCH	IED	UL	Ε.			
SYSTEM	TYPE	NO. REQ'D	MFGR.	MODEL NO.	EWT	LWT	STORAGE CAPACITY	FLOW RECOVERY	tank Size	REMARKS
DOMESTIC (EWH-1)	ELEC	3	STIEBEL ELTRON	DHC5-2	60	109	~~~	49° @ 0.5 GPM	15" X	3.6 KW @ 208/1
DOMESTIC (EWH-2)	ELEC	1	STIEBEL ELTRON	DHC10-2	60	109		49° @ 1.0 GPM	15" X 8"	7.2 KW @ 208/1

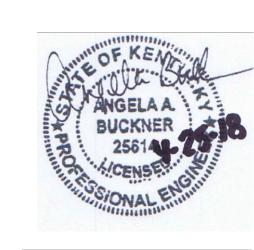


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JOB # 18.018

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ARCHITECTURE

P.O. Box 438 / 101 Second Street

Tel: 270 . 826 . 8476

Fax: 270 . 826 . 7981

ASSOCIATES

DESIGN PROFESSIONAL:

DATE:

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DESIGN NOTES:

1\ CODE COMMENTS 04.25.18 2 ADDENDUM #1

PROJECT:

Church

1010 S. Dixie Street Horse Cave, Kentucky DRAWING TITLE:

Plumbing Legends & Schedules

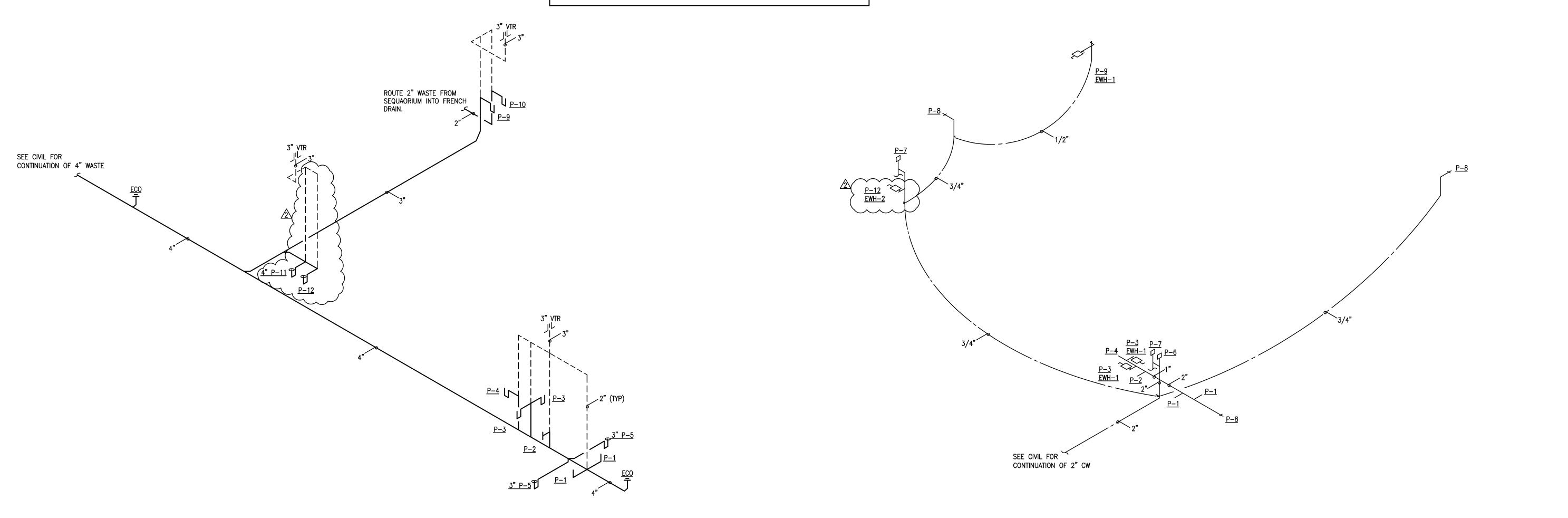


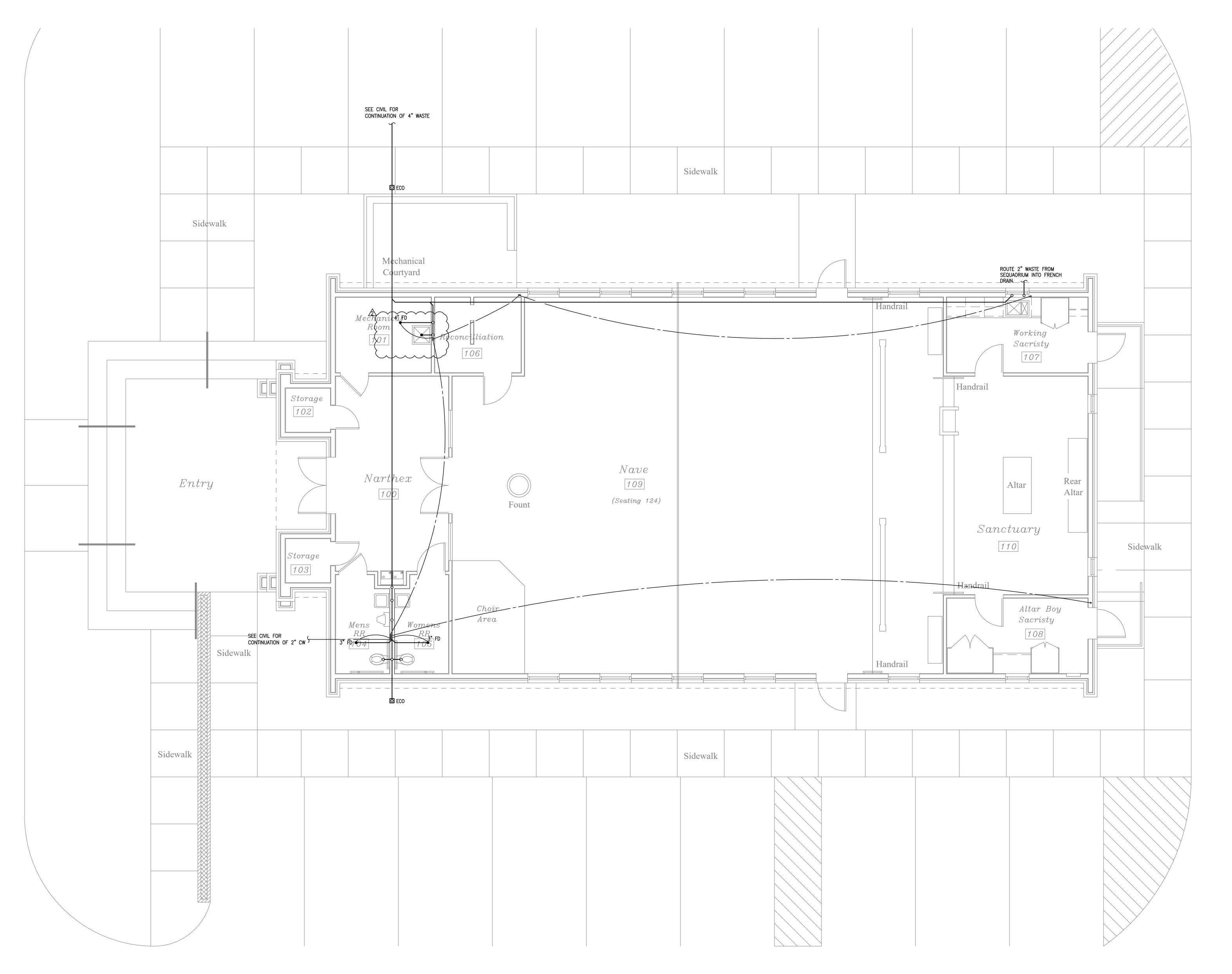
1/4" = 1' - 0"

February, 15 2018

P0.1

SHEET NO:





SEE PLUMBING RISERS ON SHEET PO.1 FOR DETAILED ROUTING AND PIPE SIZES.

Plumbing Underground Plan



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DESIGN NOTES:

 ✓1 CODE COMMENTS
 03.2

 ✓2 ADDENDUM #1
 04.2

PROJECT:

Our Lady of the Caves Catholic Church

1010 S. Dixie Street Horse Cave, Kentucky

DRAWING TITLE:

Plumbing Underground Plan



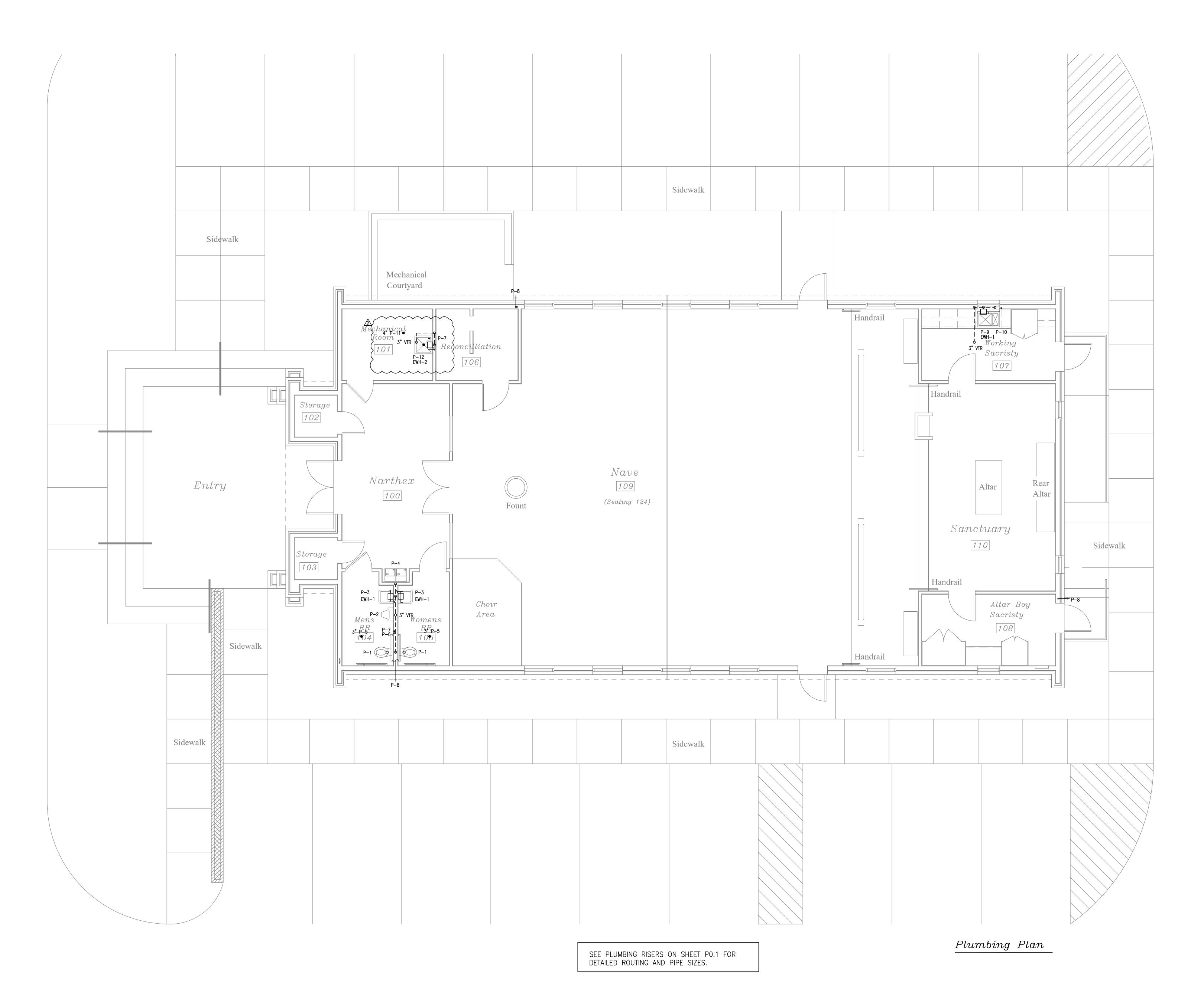


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DATE:

February, 15 2018

P2.1





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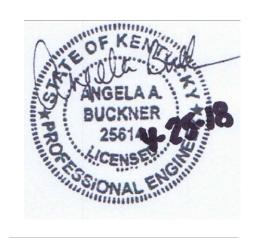
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DESIGN NOTES:

 ✓1 CODE COMMENTS
 03.28.18

 ✓2 ADDENDUM #1
 04.25.18

PROJECT:

Our Lady of the Caves Catholic Church

1010 S. Dixie Street
Horse Cave, Kentucky
DRAWING TITLE:

Plumbing Plan





SCALE: 1/4" = 1' - 0"

DATE:

February, 15 2018

P2.2

DIFFUSER, REGISTER, & GRILLE SCHEDULE

SIZES ARE BY SCHEDULES UNLESS NOTED OTHERWISE. DIFFUSERS ARE 4-WAY BELOW UNLESS NOTED AS 3-WAY (3W) OR 2-WAY (2W). GO TO NEXT LARGER NECK SIZE FOR 2-WAY OR 3-WAY DIFFUSERS.

UNLESS NOTED OTHERWISE, ALL DIFFUSERS IN THE SAME SPACE SHALL BE THE SAME FACE SIZE, REGARDLESS OF CFM, USING LARGEST SIZE FROM TABLE BELOW. ALL DIFFUSERS IN THE SAME CORRIDOR SHALL BE THE SAME FACE SIZE.

RETURN AND EXHAUST GRILLES ARE BASED ON 450 FPM & 72% FREE AREA (BASED ON 1/2" EGG-CRATE GRILLES).

* = BRANCH DUCT AND OPTIONAL BRANCH DUCT SIZES ARE BY THIS SCHEDULE UNLESS OTHERWISE SPECIFICALLY NOTED ON FLOOR PLANS.

USE RETURN/EXHAUST REGISTER AND DIFFUSER WITH O.B.D. IN DRYWALL (INACCESSIBLE) CEILINGS.

USE RETURN/EXHAUST GRILLES AND DIFFUSERS WITHOUT O.B.D. IN LAY-IN OR ÁCCESSIBLE CEILINGS.

INSTALL M.B.D. IN BRANCH DUCTS. INSTALL SPIN-IN FITTINGS (WITHOUT SCOOPS) WITH M.B.D. IN ALL OPTIONAL BRANCH DUCTS. SEE BRANCH DUCT CONNECTION DETAILS FOR SPECIFIC REQUIREMENTS.

		CEILING DIFF	USERS	
CFM RANGE	FACE SIZE	NECK SIZE	BRANCH DUCT SIZE *	OPTIONAL BRANCH DUCT SIZE
0-150	12"x12"	6"ø	8"x6"	8"ø
155-240	24"x24"	8"ø	12"x6"	10"ø
245-360	24"x24"	10"ø	12"x8"	10 " ø
365-460	24"x24"	12"ø	14"x8"	12 " ø
465-600	24"x24"	12"ø	16"x8"	12 " ø
605-720	24"x24"	14"ø	16"x10"	14"ø
	RETURN / E	⊥ XHAUST REG	⊥ ISTERS & GRILI	 _ES

	RETURN / E.	ANAUSI REG	IS I EKS & GKILL	_E3
CFM RANGE	FACE SIZE	NECK SIZE	BRANCH DUCT SIZE *	OPTIONAL BRANCH DUCT SIZE
0-90	6"x6"		8"x6"	6 " ø
95-140	8"x8"		10"x6"	8"ø
145-190	10"x10"		12"x6"	10"ø
195-275	12"x12"		14"x6"	10"ø
280-475	18"x12"		14"x8"	12"ø
480-725	18"x18"		20"x8"	14"ø
730-900	24"x18"		20"x10"	
905-1250	24"×24"		26"x10"	
1255-2000	36"x24"		26"x14"	
2005-2800	48"x24"		26"x18"	

GENERAL NOTES

- 1. DUCTWORK DIMENSIONS ARE INSIDE CLEAR.
- 2. T INDICATES THERMOSTAT.
- 3. (T_C) INDICATES THERMOSTAT WITH LOCKING COVER.
- 4. REFER TO SCHEDULE SHEET FOR DIFFUSER AND GRILLE SCHEDULE.
- 5. SPACES WITH DRYWALL CEILINGS SHALL HAVE FLANGE TYPE CEILING
- 6. ALL DIFFUSERS IN SAME SPACE SHALL HAVE THE SAME FACE SIZE USING LARGEST SIZE REQUIRED FROM DIFFUSER AND GRILLE SCHEDULE.
- 7. IF NO SIZE IS SHOWN FOR DUCT SERVING DIFFUSER OR GRILLE, USE SIZE SHOWN ON DIFFUSER AND GRILLE SCHEDULE.
- B. AIR INTAKES THRU ROOF SHALL BE A MINIMUM 10 FEET FROM EXHAUST FAN OUTLETS AND PLUMBING VENTS.
-). PROVIDE ACCESS PANELS IN AREAS WITH DRYWALL CEILING FOR ACCESS TO VALVES, BALANCING DAMPERS, FIRE, SMOKE AND/OR COMBINATION DAMPERS, REHEAT COILS, ETC..
- 10. REFER TO OTHER DISCIPLINES DRAWINGS FOR COORDINATION WITH THIS
- DUCTWORK AND CONDUIT PENETRATIONS.

11. SEAL ALL WALL, ROOF AND FLOOR PENETRATIONS AIR TIGHT AT PIPE,

- 12. REFER TO HVAC DETAILS FOR ADDITIONAL REQUIREMENTS ON EQUIPMENT.
- 13. EQUIPMENT SIZES AND SERVICE SPACE REQUIREMENTS MAY VARY BETWEEN DIFFERENT MANUFACTURERS. CONSULT THE MANUFACTURER SUBMITTED AND APPROVED, AND COORDINATE WITH THESE DOCUMENTS.
- 14. REFER TO EQUIPMENT SCHEDULES FOR BRANCH PIPE SIZES TO INDIVIDUAL
- 15. PROVIDE MANUAL BALANCING DAMPERS IN EACH BRANCH RUN OUT TO SUPPLY DIFFUSERS, RETURN AND EXHAUST GRILLES.
- 16. CONTRACTOR SHALL VERIFY CLEARANCE REQUIREMENTS AND INDICATE ROUTING OF NEW DUCTWORK BEFORE FABRICATION BEGINS AS RISES AND DROPS MAY BE NECESSARY DUE TO FIELD CONDITIONS.

- 17. COORDINATE DUCT ROUTING SO AS NOT TO INTERFERE WITH TRUSS SPACE
- 18. MOUNT ALL TEMPERATURE SENSORS 54" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. PROVIDE LOCKING PLASTIC COVERS FOR ALL
- 19. FLEX DUCT IS TO BE INSTALLED WITHOUT SHARP BENDS OR CRIMPS. FLEX IS TO BE PERMANENTLY FASTENED TO ANY SHEET METAL FITTINGS.
- 20. DRAWINGS ARE DIAGRAMMATIC AND DO NOT RELEASE THE CONTRACTOR FROM THE RESPONSIBILITY OF INSTALLING THE HVAC SYSTEM PER LOCAL CODE AND IN EXCELLENT WORKING CONDITION.
- 21. GENERAL CONTRACTOR SHALL PROVIDE FRAME OPENINGS FOR ROOF TOP UNITS IN ACCORDANCE WITH MECHANICAL CONTRACTORS SPECIFICATIONS.
- 22. APPROVED EQUAL MANUFACTURER'S EQUIPMENT MAY BE USED. VERIFY ELECTRICAL LOADS AND COORDINATE WITH ELECTRICAL CONTRACTOR.
- 23. CONTRACTOR SHALL SUBMIT (7) COPIES OF SUBMITTALS. ALL INFORMAITON DIFFERENT FROM DRAWINGS AND SPECIFICAITONS SHALL BE HIGHLIGHTED AND BROUGHT TO ATTENTION OF REVIEWER.
- 24. ALL SMOKE DETECTORS ARE INSTALLED AND FURNISHED BY ELECTRICAL
- 25. PROVIDE A FLEXIBLE CONNECTION AT THE INTAKE AND DISCHARGE OF ALL
- MOTOR DRIVEN EQUIPMENT. 26. ALL FLEXIBLE DUCTWORK SHALL HAVE A MAXIMUM LENGTH OF SIX (6) FEET AND A MINIMUM RADIUS OF 90 DEGREES.

<u>CONTROLS</u>

AIR HANDLER FANS SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS TO MAINTAIN PRESSURIZATION AND REQUIRED AIR CHANGES. OCCUPIED HOURS TO BE DETERMINED BY PROGRAMMABLE T'STAT HEAT PUMP COMPRESSOR AND SUPPLEMENTAL ELECTRIC HEAT OPERATION SHALL BE CONTROLLED BY PROGRAMMABLE T'STAT WITH AUTOMATIC HEAT/COOL SWITCHING UPON DETECTION OF SMOKE BY DUCT MOUNTED SMOKE DETECTOR, AIR HANDLERS AND INTERLOCKED EXHAUST FANS SHALL SHUT DOWN.

DX HEAT PUMP A/C UNIT SCHEDULE

GENERAL NOTES:

(1) EXTERNAL STATIC PRESSURE INCLUDES ALL LOSSES IN DUCT SYSTEM

(2) HIGH EFFICIENCY MOTOR

E.P. - EMREGENCY POWER

UNIT ACCESSORIES:

1 - DUAL COMPRESSORS

2 - FACTORY INSTALLED HUMIDIFIER (SEE SCHEDULE)

3 - AUX DRAIN PAN AND LEAK DETECTION WITH AUTO SHUT-OFF 4 - MFG'S DISCHARGE PLENUM MODULE

5 - MFG'S 100% O/A ECONOMIZER MODULE

6 - 1" THROWAWAY PRE FILTERS AND FRAME

7 - MFG'S FINAL FILTER MODULE

9 - SPRING ISOLATION RAIL

8 - ROOF CURB WITH 90% EFFICIENT FINAL FILTERS

10 - UNIT STARTERS, CONTROLS, DAMPERS, & ACCESSORIES FACTORY INSTALLED BY A/C UNIT

11 - INDIVIDUAL ELEC. CONNECTIONS FOR EACH FAN AND CONDENSING UNIT

12 - DUAL POINT ELEC. CONNECTIONS FOR UNIT, EMERGENCY POWER FOR SUPPLY AND RETURN FANS ONLY

STARTER ACCESSORIES:

A - FACTORY MOUNTED COMBINATION MAG-X-LINE

B - FACTORY MOUNTED AUTO TRANSFORMER

C — FACTORY MOUNTED VARIABLE FREQUENCY DRIVE (VFD) WITH LINE REACTOR & DISCONNECT

D - HAND-OFF-AUTO SWITCH, 120 VOLT CONTROL TRANSFORMER, & PILOT LIGHT

IDENTIFICATION	A/C-1	A/C-2	
AREA SERVED	NARTHEX	NAVE	
MANUFACTURER	TRANE	TRANE	
MODEL NO.	TAM7AOB30	TWE180E	
TONS	2.5	15	
OPERATING WEIGHT (LBS)	150#	752#	
UNIT ACCESSORIES	3,6,10	1,3,6,10	
SUPPLY FAN			
CFM	950	5525	
EXT. S.P. (1)	.5	.5	
TOTAL S.P.	SEE MFG	SEE MFG	
H.P. (2)	1/3	3	
	208-3	208-3	
STARTER TYPE	BY MFG	BY MFG	
DISCONNECT TYPE	BY MFG	BY MFG	
ACCESSORIES	A D	A D	
OUTSIDE AIR			
MINIMUM	150	1650	
MAXIMUM	150	1650	
COOLING COIL			
DEHUM CFM	950	5525	
MAX. FV	500	500	
EDB/EWB (*F)	77.8/65.4	81.21/67.35	
LDB/LWD ('F)	55/54	55/54	
CAPACITY (MBH)	29.5	208.9	
HEATING			
ELEC HTG CAPACITY (MBH)	23.8	120.5	
ELEC HEAT KW	7.2	37.4	
EAT/LAT	72/95	70/90	
UNIT MCA/MOCP	46/50	141.6/150	
CONDENSING UNITS			
MODEL	4TWR5030	TWA180	
TYPE	AIR COOLED	AIR COOLED	
VOLTAGE	208-1	208-3	
MCA/MOCP	15/25	66.3/80	
REMARKS			

	HVAC L	EGEND	
	PIPING		DUCTWORK
D	DRAIN LINE		SUPPLY DUCTWORK
	REFRIGERANT SUCTION		RETURN OR EXHAUST DUCTWORK
RL	REFRIGERANT LIQUID	⊗ FD	FIRE DAMPER
v	EQUIPMENT VENT	⊗ sd	SMOKE DAMPER
	BALL VALVE	⊗ F/SD	COMBINATION FIRE & SMOKE DAMPER
── ▼	GATE VALVE	240	SUPPLY DIFFUSER & AIR QUANTITY (INDICATES 4-WAY BLOW)
<u>——ф</u>	GLOBE VALVE	150 3W (2W)	SUPPLY DIFFUSER & AIR QUANTITY INDICATES 3-WAY BLOW (2-WAY BLOW)
——Ф	BUTTERFLY VALVE	☐ 140R	RETURN AIR GRILLE & AIR QUANTITY
\\	CONTROL VALVE	☐ 150E	EXHAUST AIR GRILLE & AIR QUANTITY
	STRAINER WITH HOSE END DRAIN CONNECTION		REDUCER/TRANSITION
	STRAINER AND BLOWDOWN VALVE	(<u>1</u>)	THERMOSTAT (ADJUSTABLE)
——	PLUG COCK (BALANCING VALVE)	a	THERMOSTAT (CONCEALED / KEY OPER.)
	UNION	R. A	RISE IN DUCTWORK
———III———	COMPANION FLANGE	<u> </u>	DROP IN DUCT
——\\——	CHECK VALVE	Ľ ∮	CONICAL TEE
Š	GAUGE & GAUGE COCK		BELLMOUTH CONNECTION
	THERMOMETER	 	DUCT WITH INTERNAL SOUND LINER
A.F.F.	ABOVE FINISHED FLOOR	Political Politi	SQUARE ELBOW WITH TURNING VANES
A.F.R.	ABOVE FINISHED ROOF	M.B.D.	MANUAL BALANCE DAMPER
A.D.	ACCESS DOOR	▼ 50	INDICATES 3/4" DOOR UNDERCUT. DIRECTION & QUAN .OF ROOM AIR PRESS.
		5 9	INDICATES DIRECTION & QUANTITY OF ROOM AIR PRESSURIZATION.
		S _D	DUCT MOUNTED SMOKE DETECTOR
		(\$p)	DUCT MOUNTED STATIC PRESSURE CONTROLLER

			\odot	CONTROLLER
			•	
FAN S	CHEDULE			
GENERAL NOTES:				
(1) HIGH EFFICIENCY MOTOR				
ABBREVIATIONS:				
C.T CONTROL TRANSFORMER				
R.I.S. — RUBBER IN SHEAR				
UNIT ACCESSORIES:				
1 - PROVIDE WITH MFG WALL TERMINATION	KIT			
2 - PROVIDE WITH GRAVITY DAMPER AND S	CREENED OUTLET			
3 - PROVIDE WITH WIREGUARD				
4 - PROVIDE WITH GAS HEAT 183 IN/168	OUT			
5 - PRE-WIRED DISCONNECT SWITCH				
6 - PROVIDE WALL SWITCH				
7 - MANUFACTURER'S ROOF CURB				
STARTER ACCESSORIES:				
A – MANUAL MOTOR STARTER			~~~	\searrow_2
			55.7	1
IDENTIFICATION	EF-1	EF-2	EF-3 MECH ROOM	
SYSTEM	TOILET	TOILET	CABINET CEILING FAN	+
TYPE	CABINET CEILING FAN WITH INTEGRAL	WITH INTEGRAL (WITH INTEGRAL GRILLE	
MANUFACTURER	GRILLE COOK	GRILLE COOK	COOK	 }
MODEL NO.	GC 160	GC 160	GC 160	+>
CFM	150	150	150	+)
S.P.	.25	.25	.25	1)
MAX. SONES	5	5	5	1)
				\downarrow
ROOF OPENING	N/A	N/A }	N/A	\
UNIT WEIGHT (LBS)	15#	15#	15#	I
FAN ACCESSORIES	2,5	2,5	2,5	\forall
MOTOR (1)		(>	13
MIN. H.P.	FRAC	FRAC	FRAC	1
RPM	1500	1500	1500	
VOLTAGE	120-1	120-1	120-1	
<u>STARTER</u>			<u> </u>	
LOCATION	AT UNIT	AT UNIT	AT UNIT	
TYPE	BY MFG	BY MFG	BY MFG	
DISCONNECT TYPE	MCP	мср	MCP	1
ACCESSORIES		<u> </u>		
<u>REMARKS</u>)	1)

FAN TO BE

LIGHTSWITCH

INTERLOCKED WITH | INTERLOCKED WITH /

FAN TO RUN

CONTINUOUSLY

FAN TO BE

LIGHTSWITCH



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P.O. Box 438 / 101 Second Street Henderson, Kentucky 42419-0438 Tel: 270 . 826 . 8476 Fax: 270.826.7981

ASSOCIATES



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DESIGN NOTES: CODE COMMENTS

2 ADDENDUM #1

PROJECT:

Our Lady of the Church

1010 S. Dixie Street Horse Cave, Kentucky DRAWING TITLE:

HVAC Legends & Schedules

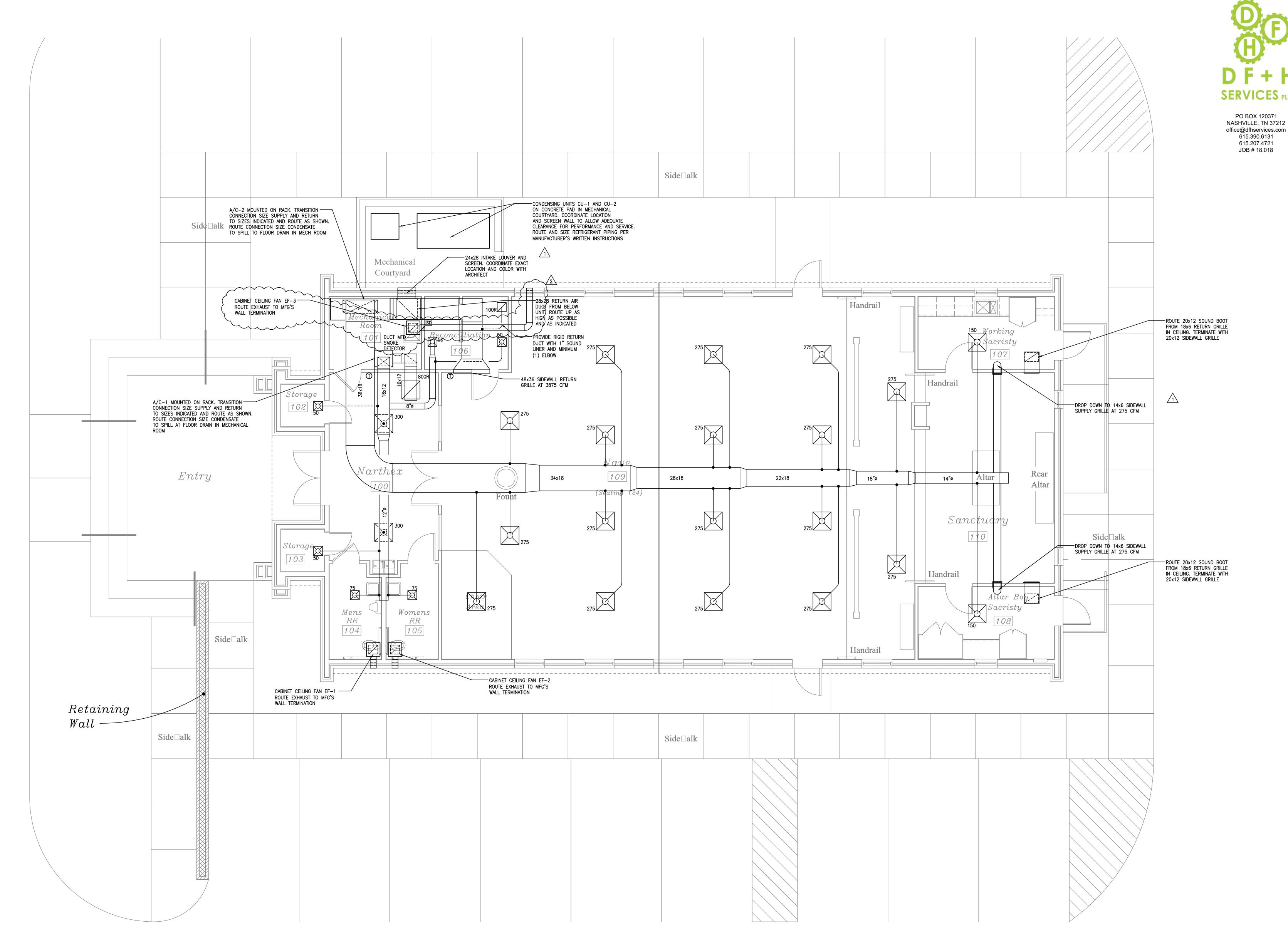




1/4" = 1' - 0"

February, 15 2018

SHEET NO:

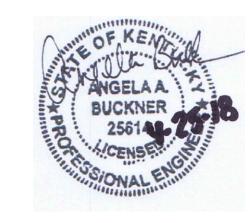


HVAC New Construction Plan



ARCHITECTURE

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DESIGN NOTES:

CODE COMMENTS

ADDENDUM #1

04.25.18

PROJECT:

Our Lady of the Caves Catholic Church

1010 S. Dixie Street Horse Cave, Kentucky

DRAWING TITLE:

HVAC New Construction Plan



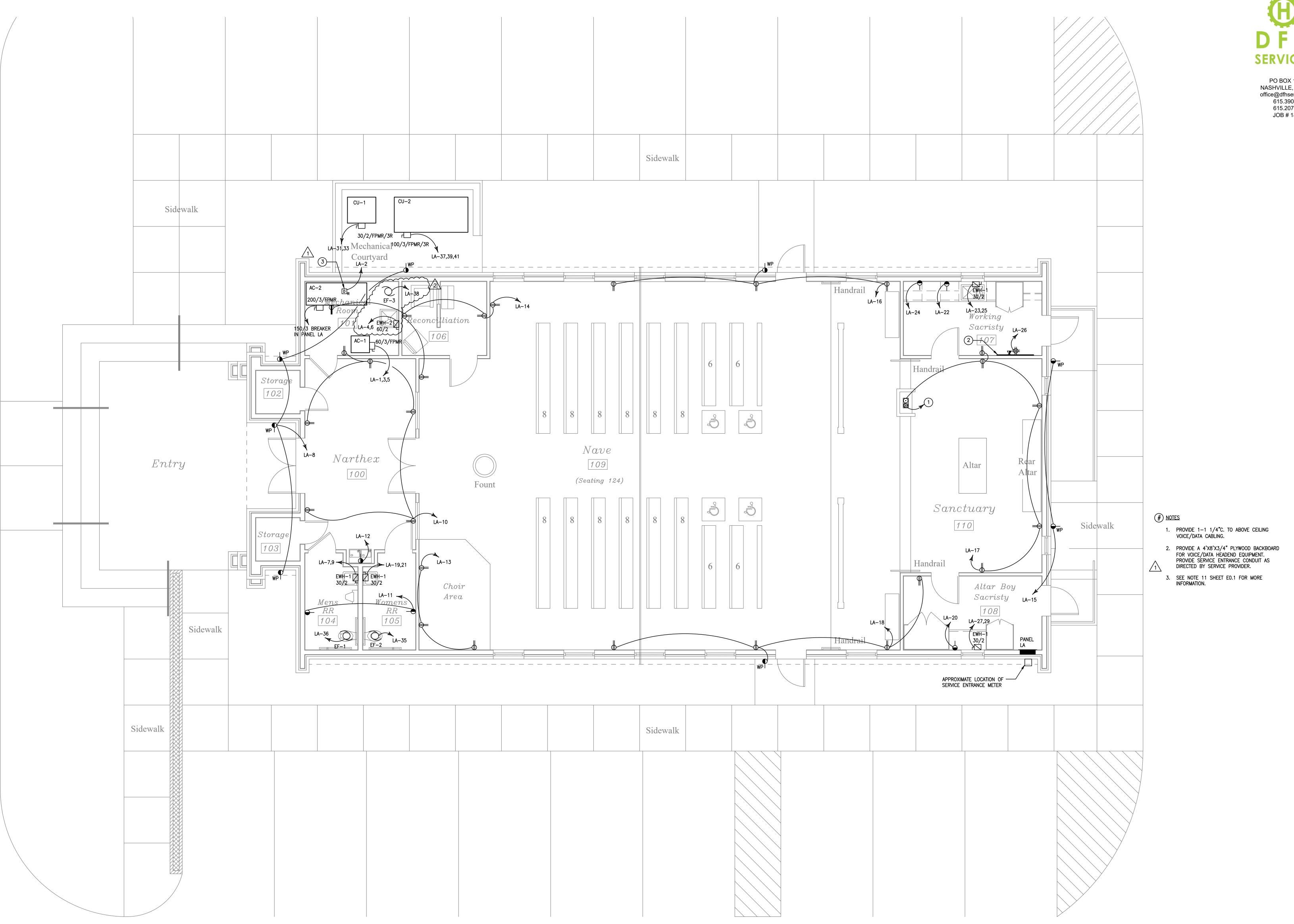


1/4" = 1'-0"

February, 15 2018

SHEET NO:

M2.1





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DESIGN NOTES:

CODE COMMENTS 2 ADDENDUM #1

PROJECT:

Our Lady of the Caves Catholic Church

1010 S. Dixie Street Horse Cave, Kentucky DRAWING TITLE:

Electrical Power Plan





1/4" = 1' - 0"

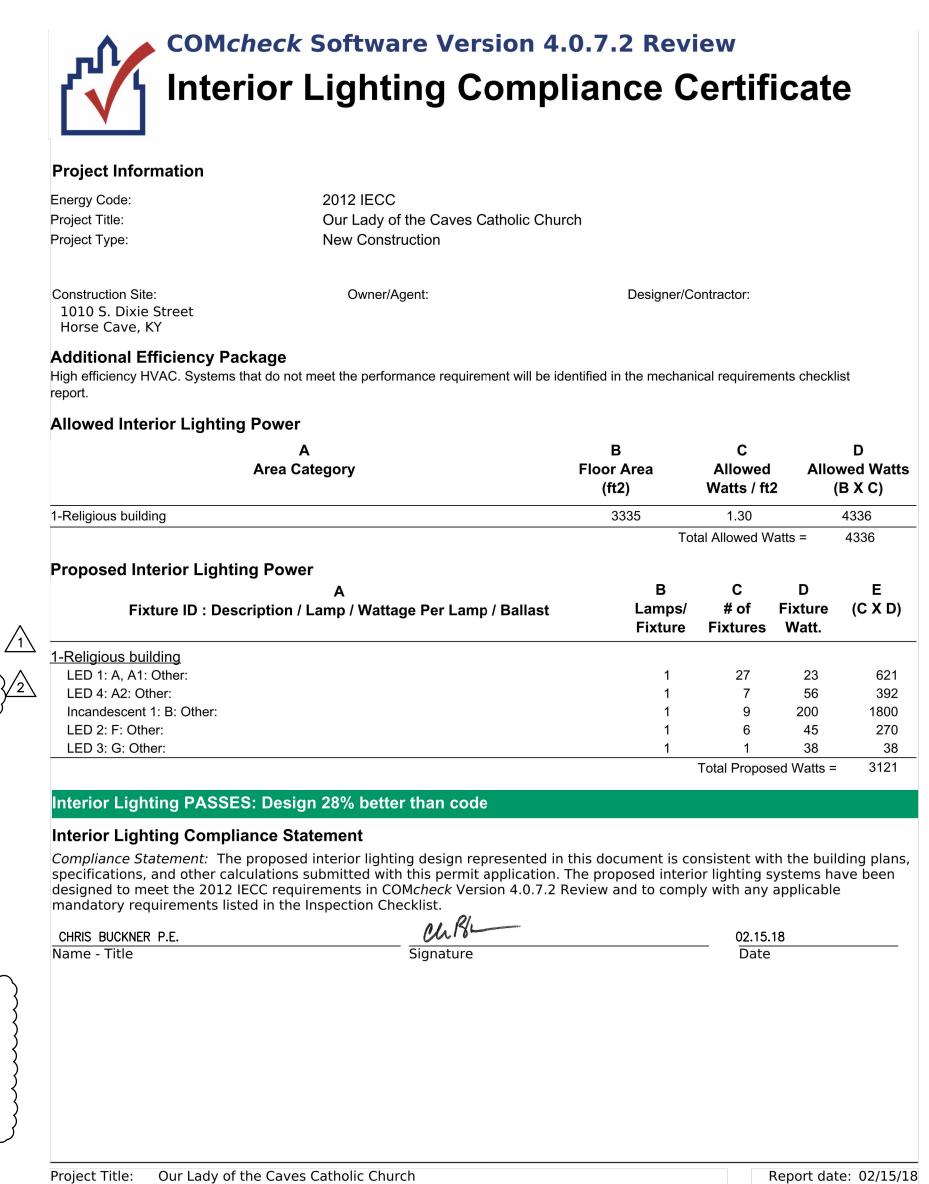
Electrical Power Plan

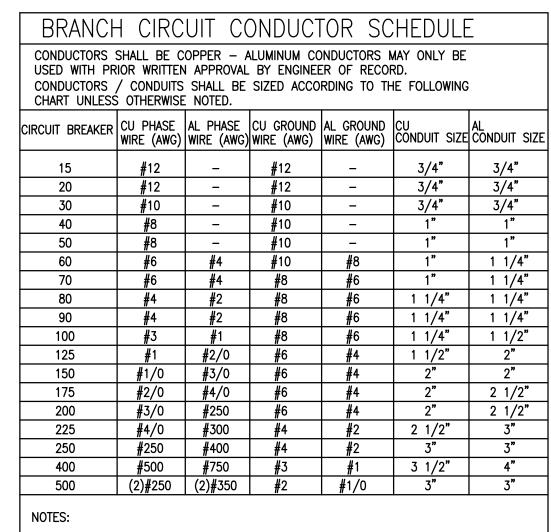
February, 15 2018

SHEET NO: E2.2

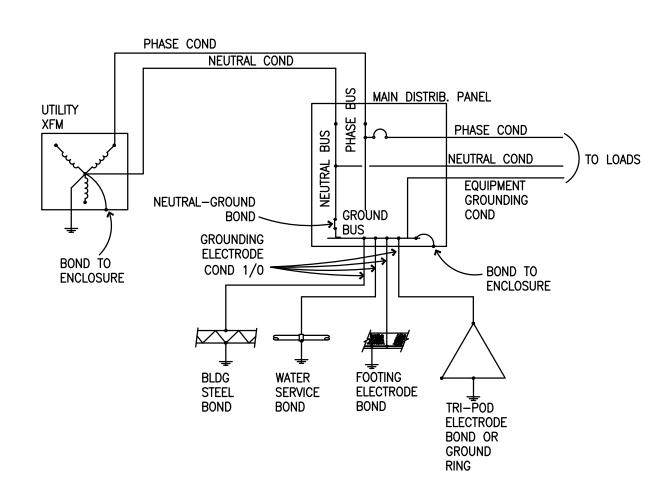
TYPE	MANUF.	CATALOG #	WATTS/FIXT.	LAMPS	VOLT	MOUNTING	NOTES
Α	LITHONIA	LDN6-30/20-L06AR-LD-EZ10	23	LED	120	RECESSED	6" LED DOWNLIGHT - 2000 LUMEN
AE	LITHONIA	LDN6-30/20-L06AR-LD-EZ10- EL	23	LED	120	I RECESSED	6" LED DOWNLIGHT - 2000 LUMEN WITH 90MIN BATTERY BACKUP
A1	LITHONIA	LDN6-30/20-L06AR-LD-EZ10	23	LED	120	I RECESSED	6" LED DOWNLIGHT - 2000 LUMEN - WITH CEILING SLOP KIT
A2	LITHONIA	LDN6-30/50-L06AR-LD-EZ10	56	LED	120	RECESSED	6" LED DOWN LIGHT - 5000 LUMEN WITH CEILING SLOPE KIT
В	OWNER SELECTE	D/CONTRACTOR PROVIDED	200	TBD	120	PENDANT	DECORATIVE PENDANT
С	OWNER SELECTE	D/CONTRACTOR PROVIDED	100	TBD	120	SCONCE	EXTERIOR WALL SCONCE
D	LITHONIA	DSXFQ-LED-P2-50K-WFL	42	LED	120	GROUND	EXTERIOR FIXTURE
F	LITHONIA	2BLT4-48L-ADSMEZ1-LP830	45	LED	120	RECESSED	2'X4' LED TOFFER
G	LITHONIA	CDS-L48-MVOLT-DM-35K- 80CRI	38	LED	120	RECESSED	1'X4' LED STRIP
Н	OWNER SELECTE	D/CONTRACTOR PROVIDED	100	TBD	120	SCONCE	EXTERIOR WALL SCONCE
J	LITHONIA	DSXF1-LED-P2-50K-NSP	42	LED	120	SURFACE	ROOF MOUNTED TO LIGHT STEEPLE
K	JUNO	T255L-G2-30K-80CRI-PDIM- NFL	35	LED	120	MONO POINT	MONO POINT TRACK HEAD
XE	LITHONIA	ECBR-LED-M6	-	INCLUDED	120	UNV.	COMBO EGRESS EXIT SIGN WITH 90 MIN BATTERY BACKUP
XEM	LITHONIA	ELM2-LED-SD	-	INCLUDED	120	SURFACE	EMERGENCY EGRESS FIXTURE WITH 90 MIN BATTERY BACKUP
XEE	LITHONIA	AFN-EXT	-	INCLUDED	120	SURFACE	EXTERIOR EMERGENCY EGRESS FIXTURE WITH 90 MIN BATTERY BACKUP

Panel Device	LA MOLDED CASE					Type closure		CKT.	.BKR. //A 1				Itage L Itage L			208 120		Proposed Interior Lighting Power A	В	С	
	RECESSED				Ма	iins		M.C.I	B. 400/3			Am	perage	е		400		Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps/	# of	
Served By	UTILITY				Fee	ed Thru	Lugs:	-				AIC	Cor Av	ail Fault		22,000	Λ		Fixture	Fixtur	es
Ckt No.	Description	CO	DE Loa		arks CB		PH PI						CODE	Descrip		Ckt No.		1-Religious building			
1	AC-1		9 552		- 50) 3	A A	^{لم} لر ^{لا}	~2}~	√Note-2-	~~~ ¹⁰		~ 5 ~~	_DuctDetector	~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	\wedge	LED 1: A, A1: Other:	1	27	3
3	-		9 552		-	-	ВЕ	3 (2	45	-	360		2	EWH-2		4	<u>₹ 2 \</u>	LED 4: A2: Other:	1	7	1
5	-		9 552				C 0		^		360		_2	- ^~ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^		6	3	Incandescent 1: B: Other:	1	9	l
	EWH-1		2 180		- 30) 2	A A	4 77 °	-20 -		72	J	- 3	^Front Exterior Rece	ept	3 7		LED 2: F: Other:	1	6	į
9	- 		2 180				R F	3 1	20	-	90		3	Narthex Recept		10		LED 3: G: Other:	1	1	
11	Restroom Recept		3 361		. 20]]	L L	. 1	20	-	86		8	Water Fountain		12				Total Pro	pose
13	Choir Area		3 541		· 20 · 20	J	A A	4 I	20	-	90		ქ ე	Reconcilliation Re	cept	14					, , , ,
15	Back Exterior Recept		3 360		· 20	J 1 1	в b	5 - 4	20	-	72 72		ა ე	Nave Recept		16		Interior Lighting PASSES: Design 28% better than code			
1/	Altar Recept		3 900 2 180		· 20 · 30) I	ا ا م م	- I	20 20	-	72 10		ა ე	Nave Recept		18					
13	EWH-1		2 180 2 180		. 30	, 2		4 I 5 1	20 20	-	18 18		ა ე	Sacristy Recept Sacristy Recept		20 22		Interior Lighting Compliance Statement			
21	EWH-1		2 180 2 180			1 2) -	20	-	18		ა ე	Sacristy Recept		24		Compliance Statement: The proposed interior lighting design represented i	this document is c	onsistent	with
25 25	- W □ - I		2 180 2 180		. 30	,	\ \ \ \	- I \ 1	20 20	-	36		ე ე	TBB Recept		2 4 26		specifications, and other calculations submitted with this permit application	The proposed inter	ior lightir	ng sy
27	EWH-1		2 180 2 180		. 3U	1 2		- 1 2 1	20 20	_	103		1	Lighting		28		designed to meet the 2012 IECC requirements in COMcheck Version 4.0.7.2	Review and to com	ply with a	ny a
29	- WIII-1		2 180 2 180					, , - 1	20 20	_	120		1	Lighting		30		mandatory requirements listed in the Inspection Checklist.			
31	CU-1		8 156		- 25	5 2	Δ	· ·	20	_	88		1	Lighting		32		CHRIS BUCKNER P.E.		00	15 10
33	-		8 156				R F	 3 1	20 20	_	79 ⁻		1	Exterior Lighting		34		Name - Title Signature			.15.18 ate
35	EF-2	1	0 52		- 20	1 1		1	20	-	52i	R	10	EF-1		36		Name - Title Signature		D	JLE.
37	CU-2	·	8 795		. 80		\tilde{A} \tilde{A}		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	·····	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	*~~~	~~~~ 10	ĔF-3	~~~~	~~~ <u>38</u> ~~~					
39			8 795			· -	B \ E	3 1	20	-		_	-	SPARE		40	}				
41 _			8 795	6 -	· · ·		. c) c	1	20	-	_		-	SPARE		42	}				
43	Spare	~~~~	······	·····	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$		\sim_{A}	A 1	20	-	-		-	SPARE		44	}				
} 45	Spare			-	. 20) 1	В Е	3 1	20	-	-		-	SPARE		46	{				
\ 47	Spare			-	- 20) 1	C 0	1	20	-	-		-	SPARE		48	}				
\$ 49	Spare			-	- 20) 1	A A	4 1	20	-	-		-	SPARE		50					
} 51	Spare			-	· /ϡo) 1	В В	3 1	20	-	-		-	SPARE		52					
(53	Spare		-	-	. <u>∠ 5</u> 6) 1	C 0	1	20	-	-		-	SPARE		54	}				
	^AC-2Via Sub-breaker^										$\frac{1}{2}$		 								
×			9 1699		-		B >			X	X		Χ	X		×					
X	-		9 169	32 -	<u> </u>			< X	Х	X	X		Х	X		X		Project Title: Our Lady of the Caves Catholic Church			Re
Phase A		41642 VA				NOTE:												Data filename: D:\Egnyte\Shared\2018 Project Folder\18.018 Our Lady the	Caves Catholic Chur	ch- mep	ž.
Phase B		45014 VA								ance Rate								sda\Electrical\Comcheck Our Lady.cck			
Phase C		42944 VA				2. Prov	vide Loc	k-on De	evice & R	Red Label	l To Read	'Fire Alar	rm Circu	iit Do Not Turn Off''.							
Total kVa=		129.6 Dema			108.2																
Total Amps		359.7 Dema	and Amps		300.4																

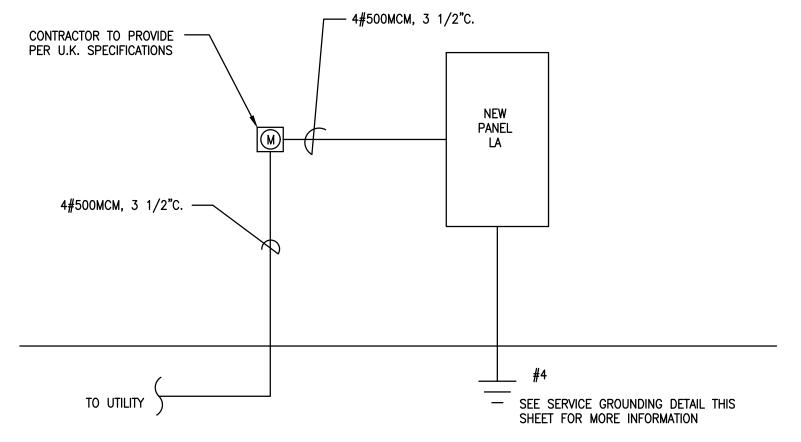




. NEUTRAL CONDUCTOR (IF REQUIRED) SHALL BE THE SAME SIZE AS PHASE CONDUCTORS. 2. ALL LIGHTING CIRCUITS SHALL UTILIZE #10 AWG WIRE FOR VOLTAGE 3. ALL HVAC OR OTHER CYCLICAL EQUIPMENT SHALL UTILIZE HACR TYPE 4. CONTRACTOR TO PROVIDE QUANTITY OF CONDUCTORS AS NECESSARY TO POWER LOADS. 5. CONDUIT SIZES BASES ON FOUR CONDUCTORS MAXIMUM. CONTRACTOR SHALL FOLLOW NEC GUIDELINES FOR DERATING AMPACITIES AND CONDUIT SIZES FOR ALL COMBINED CIRCUITS/HOMERUNS. 6. FOR ANY SIZE BREAKER NOT SHOWN ABOVE (EXAMPLE 25), USE THE CONDUIT AND WIRE SIZES FOR THE NEXT HIGHEST BREAKER INDICATED (EXAMPLE 30).



BUILDING SERVICE GROUNDING DETAIL NOT TO SCALE



Page 1 of 6

ELECTRICAL RISER DIAGRAM

Electrical Riser Diagram & Schedules



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DESIGN PROFESSIONAL:

DATE:

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DESIGN NOTES: 1 CODE COMMENTS 2\ ADDENDUM #1

PROJECT:

Our Lady of the Caves Catholic Church

1010 S. Dixie Street Horse Cave, Kentucky DRAWING TITLE:

Electrical Riser Diagram & Schedules





1/4" = 1' - 0"February, 15 2018

SHEET NO: E3.1