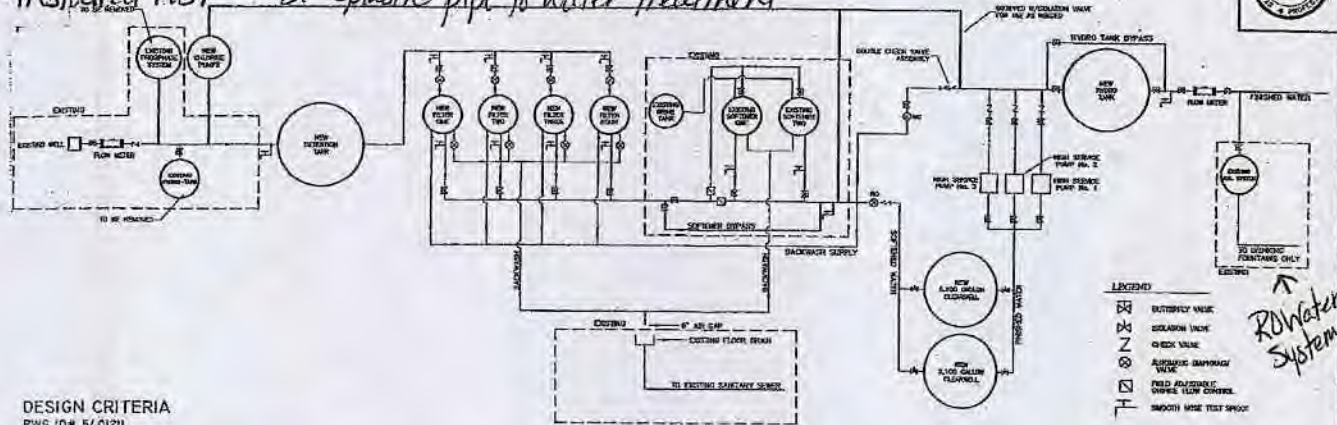


RE: Saint Charles Center  
Report  
Drinking Water Program  
Mercer County  
PWS ID: OH5401212

Well #2 installed 2011 - 2" plastic pipe to water treatment  
 Well #1 - installed 1987 - 2" plastic pipe to water treatment



**DESIGN CRITERIA**  
 PWS ID# 540121

<b>Flows</b>	
EXISTING AVERAGE DAILY FLOW	8,207 GPD (BASED ON CURRENT METER READINGS)
DESIGN FLOW	25,000 GPD
AVERAGE DAILY FLOW	17,200 GPM
PEAK FLOW	173.00 GPM
TREATMENT DESIGN	30 GPM
HIGH SERVICE DESIGN	180 GPM
<b>MAIN WATER SUPPLY</b>	
EXISTING WELL	45 GPM
MANUFACTURER	6000LBS
MODEL	45 TRB 3432
MOTOR POWER	3HP, 230V, 3W
<b>DETENTION TANK</b>	
ANSI CODE STEEL PRESSURE TANK	6'-0" x 8'-0" GAL
1,000 GALLON TANK @ 30 GPM = 40 MINUTES DETENTION TIME	
EQUIPPED W/ PRESSURE RELIEF VALVE SET @ 100PSI	
<b>PRESSURE FILTERS (ARSENIC REMOVAL)</b>	
QUANTITY	4 @ 2'4"
AREA/FILTER	3.14 SQ FT
AREA TOTAL	12.56 SQ FT
FLOW RATE @ 30 GPM	3 GPM/SQ FT
VERTICAL PRESSURE (HYDROGLASS)	
TYPE	RS-24PM
MODEL	RS-24PM
<b>ION EXCHANGE SOFTENERS (EXISTING)</b>	
QUANTITY	2 @ 3'-0"
AREA/SOFTENER	7.07 SQ FT
TOTAL AREA	14.14 SQ FT
FLOW RATE @ 30 GPM	2.68 GPM/SQ FT
SOFTENED WATER HARDNESS AFTER SOFTENING	130 - 150 mg/L

<b>CLEARWELL</b>	
CLEARWELL #1	5,100 GALLONS
CLEARWELL #2	5,100 GALLONS
TOTAL	10,200 GALLONS
<b>HIGH SERVICE PUMPS</b>	
QUANTITY	3
PUMPING RATE	80 GPM
HP	170
TYPE	END CENTRIFUGAL
MANUFACTURER	AMERICAN MARSH
MODEL	MS-175/207
HORSE POWER	10
HPM	2500
SUCTION	2
DISCHARGE	1 1/4"
EFFICIENCY	65%
ALTERNATE BACKWASH FROM HIGH SERVICE PUMPS	
<b>HYDRO-TANK</b>	
ANSI CODE STEEL PRESSURE TANK	6'-0" x 14'-0" GAL
2400 GALLON CAPACITY	
<b>R.O. SYSTEM (EXISTING)</b>	
QUANTITY	1
FLOW RATE	0.8 GPM
MANUFACTURER	OSMONICS
MODEL	1000N
SYSTEM INCLUDES 300 GALLON STORAGE TANK AND BURE'S PUMP MODEL #SMA RATED @ 350GPM	
<b>CHEMICAL DOSING RATES</b>	
CHLORINE SOLUTION	1.0 mg/L
CHLORINE DOSING RATE	10 g/hr

- NOTES:**
1. ALL MATERIALS COMING IN CONTACT WITH POTABLE WATER SHALL MEET NSF STANDARD 61 OR 61.
  2. ALL PLANT PIPING SHALL BE ASTM D-1782, NSF APPROVED, SCH-80 PVC.
  3. THE WATER TREATMENT FACILITIES SHALL BE DISINFECTED ACCORDING TO AWWA STANDARDS C651, C652, C653.
  4. WATER IS TREATED AT 30 GPM TO MEET AVERAGE DAILY FLOW (2500 GALLONS OF CLEARWELL STORAGE @ 30 GPM HIGH SERVICE PUMPS PROVIDE PEAK FLOWLY DEMAND WITH ONE PUMP OUT OF SERVICE).
  5. PRIMARY BACKWASH - FROM WELLS  
 ALTERNATE BACKWASH - FROM HIGH SERVICE PUMPS @ 31 GPM

REVISIONS

NO.	DATE	DESCRIPTION
1	05/10/05	ISSUE FOR PERMITS
2	05/10/05	ISSUE FOR PERMITS
3	05/10/05	ISSUE FOR PERMITS
4	05/10/05	ISSUE FOR PERMITS
5	05/10/05	ISSUE FOR PERMITS

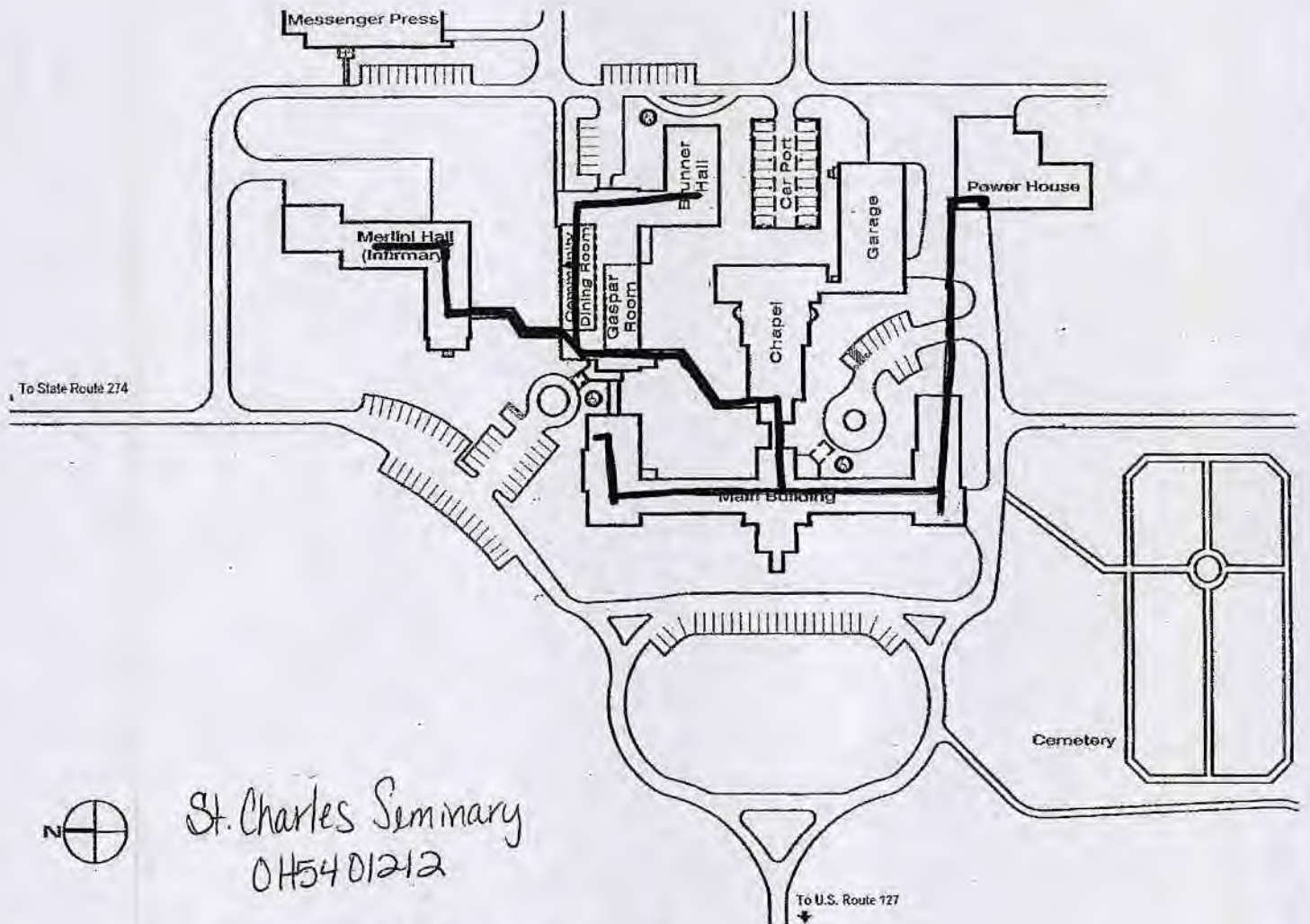
BY: [Signature] DATE: 05/10/05  
 PROJECT: ST. CHARLES SEMINARY WATER TREATMENT SYSTEM  
 SHEET NO.: 3 OF 3  
 DRAWN BY: E. KRISTON  
 CHECKED BY: [Signature]  
 APPROVED BY: [Signature]

Legend:  
 [Symbol] ELECTRICAL WIRE  
 [Symbol] SOLID LINE  
 [Symbol] CHECK VALVE  
 [Symbol] AIR/GAS IMPROVED WIRE  
 [Symbol] FIELD ADJUSTABLE DOUBLE FLOW CONTROL  
 [Symbol] SMOOTH WIRE TEST SPOOT

Water Conditioning

St. Charles Seminary OH 5401212  
 Water Treatment System (located in Powerhouse)  
 plastic pipes - 2005

RECEIVED  
 MAR 03 2017  
 DDAGW - NWDO

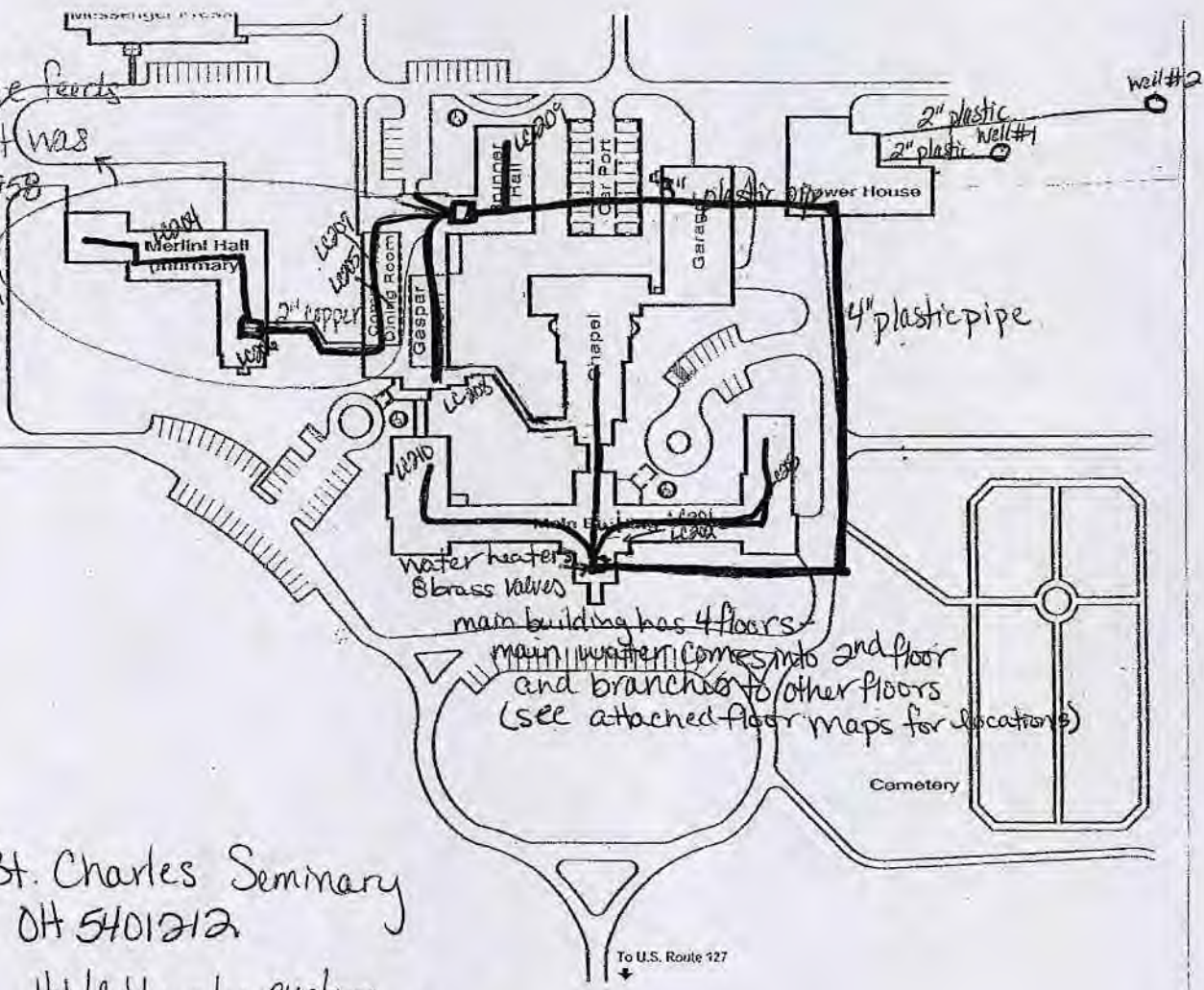


**RECEIVED**  
 MAR 03 2017  
 DDAGW - NWDO

This main copper line feeds Merlini Hall only. It was put into building 1958

It feeds 60 rooms that have bathrooms in them (sink, toilet, shower)

To State Route 274



main building has 4 floors  
 main water comes into 2nd floor and branches to other floors (see attached floor maps for locations)



St. Charles Seminary  
 OH 5401212

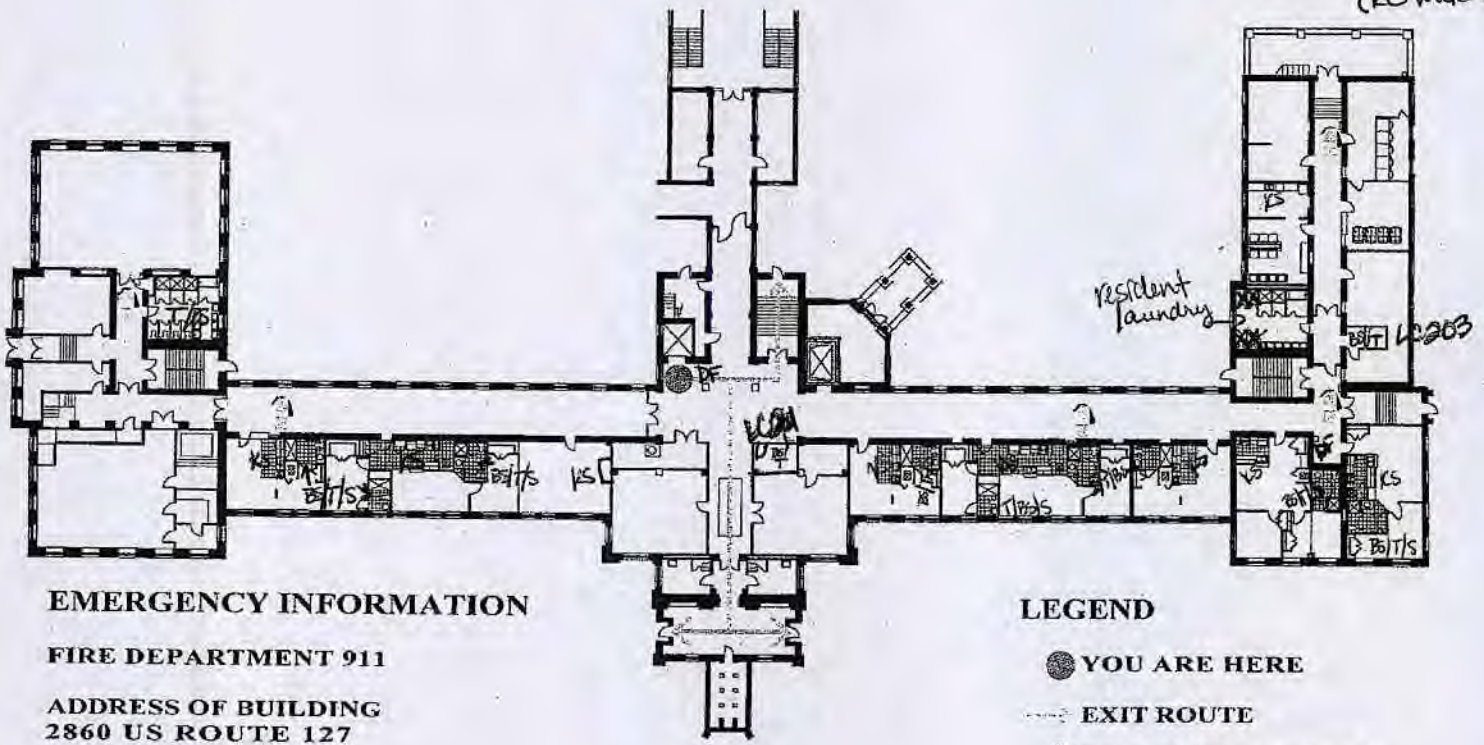
Hot/Cold water system -  
 all plastic pipes - 2005-2008

all faucets replaced 2005-2008 (including drinking fountains)

**RECEIVED**  
 MAR 03 2017  
 DDAGW - NWDO

# EMERGENCY EXIT PLAN

KS = Kitchen Sink  
 BS = Bathroom Sink  
 T = Toilet  
 S = Shower  
 DF = Drinking Fountain  
 (RO Water System)



## EMERGENCY INFORMATION

FIRE DEPARTMENT 911  
 ADDRESS OF BUILDING  
 2860 US ROUTE 127

## LEGEND

- YOU ARE HERE
- EXIT ROUTE
- ⊗ FIRE EXTINGUISHER

St. Charles Seminary - Main Building  
 OH 5401212

**LOWER LEVEL**  
 (Terrace level)

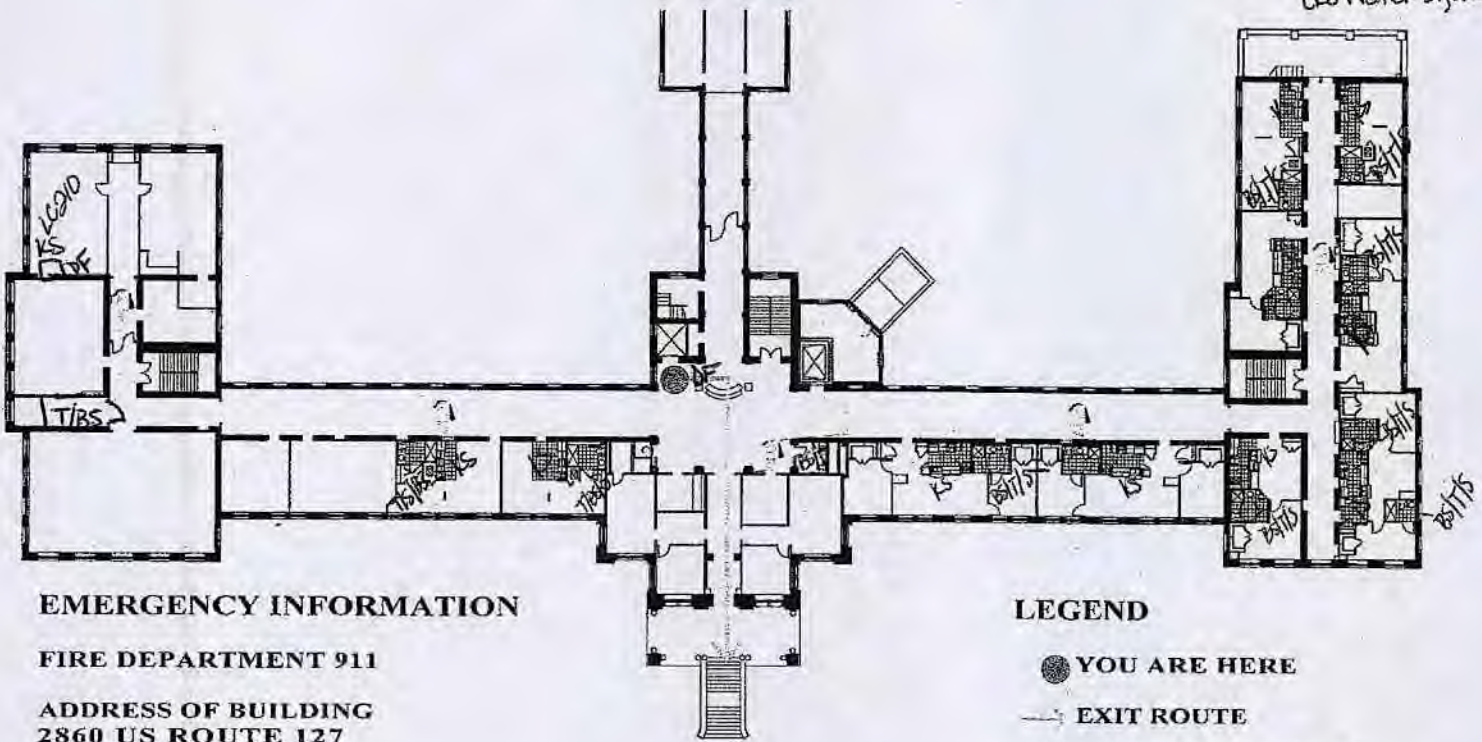
**RECEIVED**

MAR 03 2017

DDAGW - NWDO

# EMERGENCY EXIT PLAN

KS = Kitchen Sink  
 BS = Bathroom Sink  
 T = Toilet  
 S = Shower  
 DF = Drinking Fountain  
 (20 water system)



## EMERGENCY INFORMATION

FIRE DEPARTMENT 911

ADDRESS OF BUILDING  
 2860 US ROUTE 127

## LEGEND

- YOU ARE HERE
- EXIT ROUTE
- ⊗ FIRE EXTINGUISHER

St. Charles Seminary - Main Building  
 OH 5401212

## FIRST FLOOR

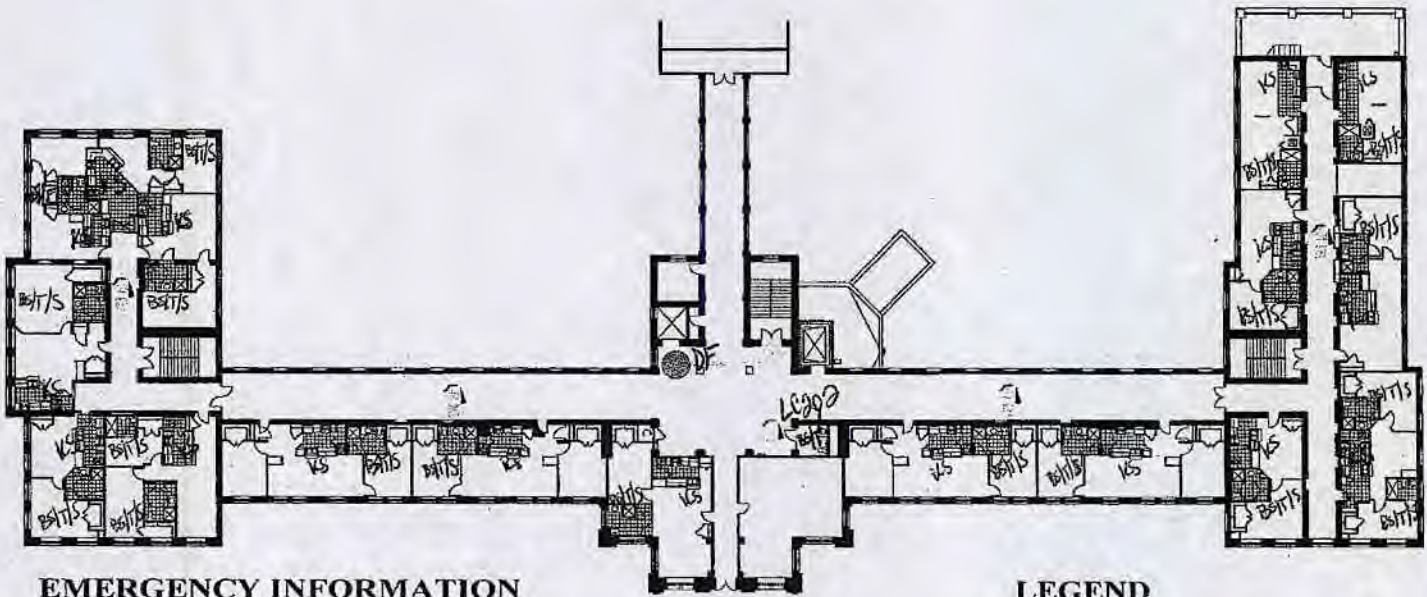
RECEIVED

MAR 03 2017

DDAGW - NWDO

# EMERGENCY EXIT PLAN

KS = Kitchen Smk  
 BS = Bathroom Smk  
 T = Toilet  
 S = Shower  
 DF = Drinking Fountain  
 (RD water System)



## EMERGENCY INFORMATION

FIRE DEPARTMENT 911

ADDRESS OF BUILDING  
 2860 US ROUTE 127

## LEGEND

● YOU ARE HERE

→ EXIT ROUTE

🔥 FIRE EXTINGUISHER

St. Charles Seminary - main Building  
 OH. 5401212

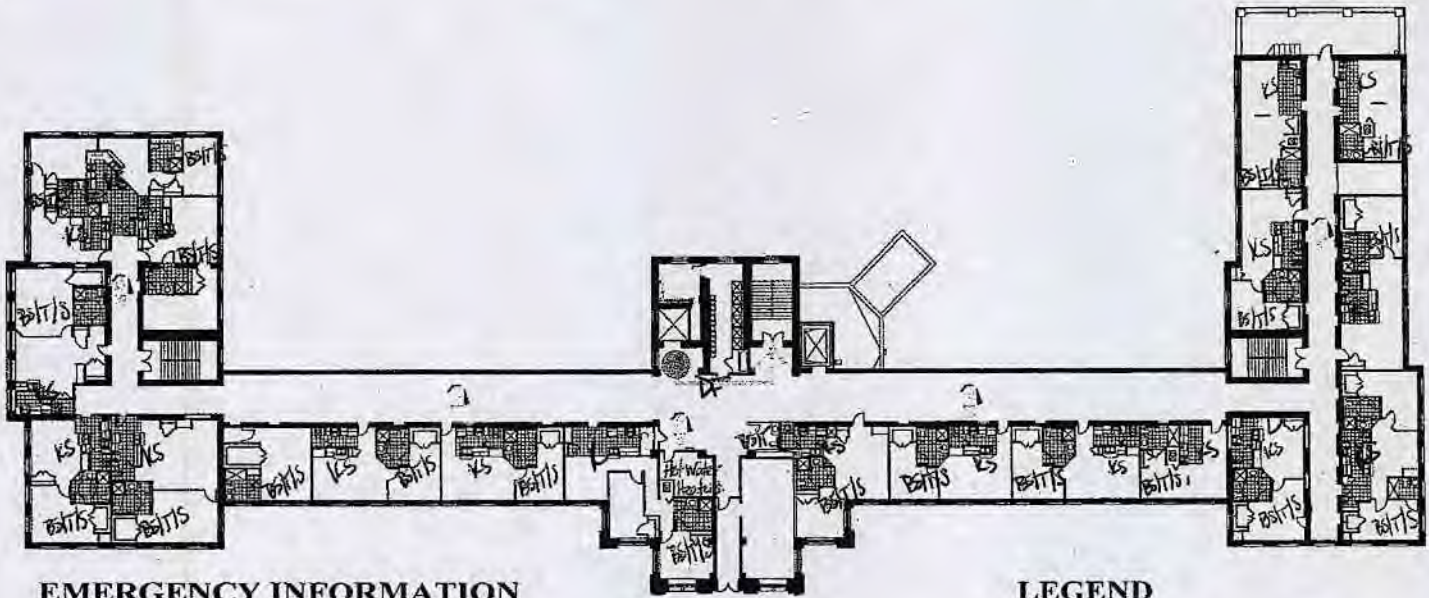
**SECOND FLOOR  
 RECEIVED**

MAR 03 2017

DDAGW - NWDO

# EMERGENCY EXIT PLAN

KS = Kitchen Sink  
 BS = Bathroom Sink  
 T = Toilet  
 S = Shower  
 DF = Drinking Fountain  
 (RS water System)



## EMERGENCY INFORMATION

FIRE DEPARTMENT 911  
 ADDRESS OF BUILDING  
 2860 US ROUTE 127

## LEGEND

- YOU ARE HERE
- EXIT ROUTE
- ☐ FIRE EXTINGUISHER

St. Charles Seminary - Main Building  
 OH. 5401212

## THIRD FLOOR

RECEIVED

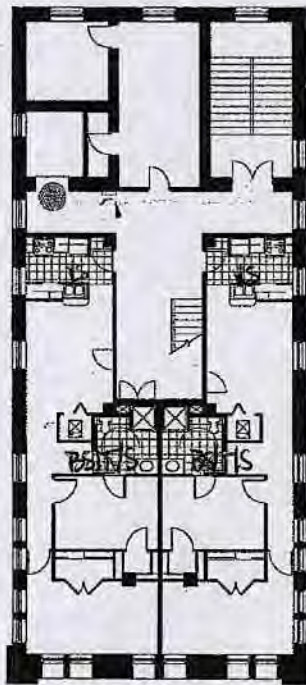
MAR 03 2017

DDAGW - NWDO



# EMERGENCY EXIT PLAN

KS = Kitchen Sink  
BS = Bathroom Sink  
T = Toilet  
S = Shower



## EMERGENCY INFORMATION

FIRE DEPARTMENT 911

ADDRESS OF BUILDING  
2860 US ROUTE 127

St. Charles Seminary - Main Building  
OH 5401212

## LEGEND

- YOU ARE HERE
- EXIT ROUTE
- FIRE EXTINGUISHER

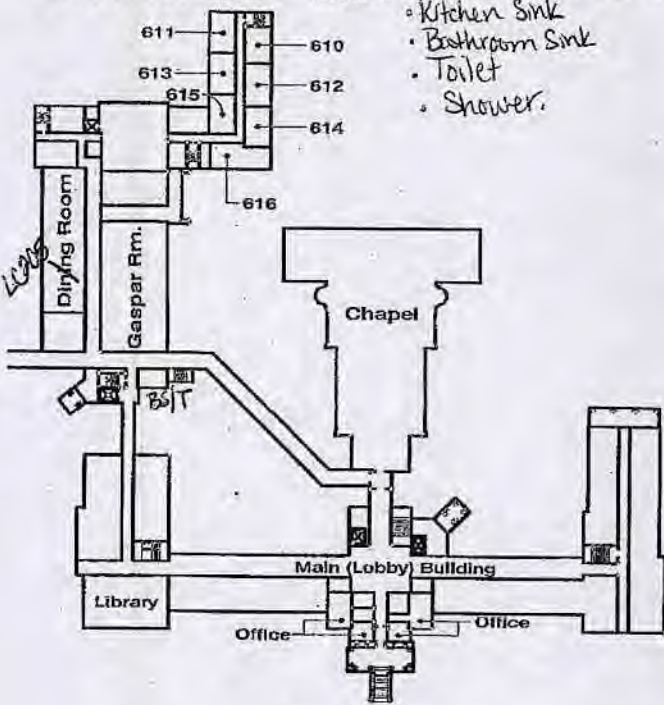
## FOURTH FLOOR

RECEIVED  
MAR 03 2017  
DDAGW - NWDO

# First Floor Level

**Brunner Hall** - Guest Rooms - all have

- Kitchen Sink
- Bathroom Sink
- Toilet
- Shower.



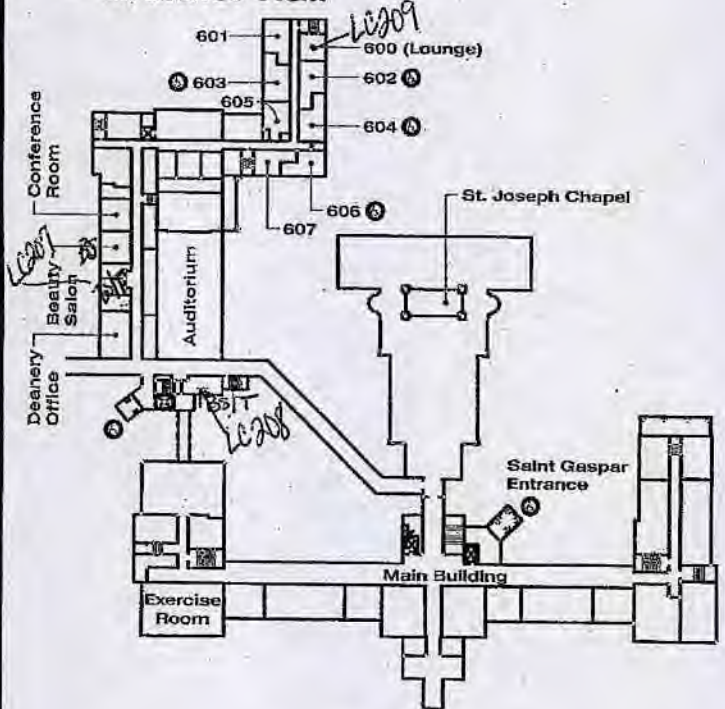
Front Entrance



St. Charles Seminary  
OH 54012-12

# Terrace Floor Level

**Brunner Hall**



Front Entrance



RECEIVED

MAR 03 2017

DDAGW - NWDO