

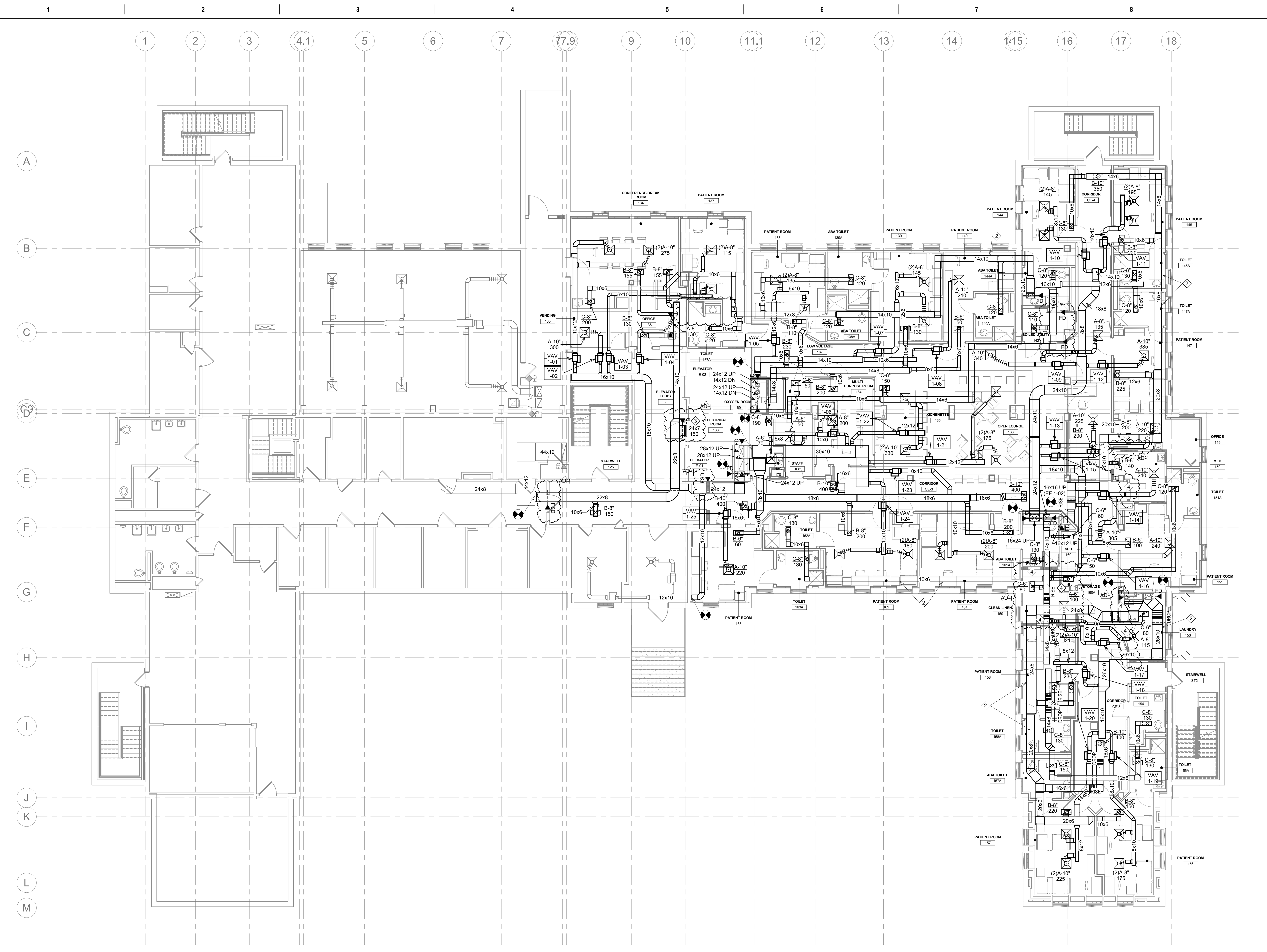
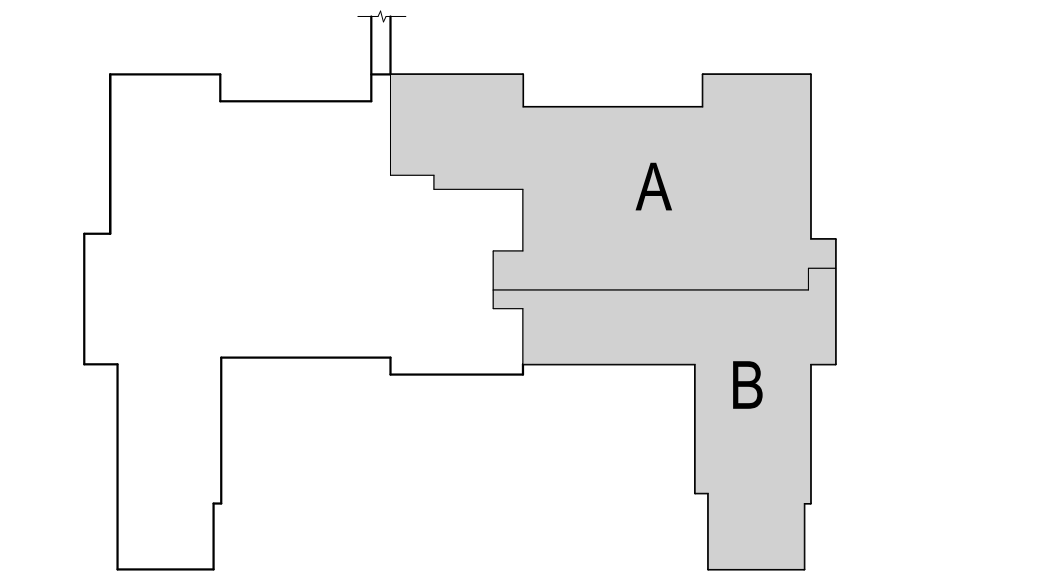
GENERAL NOTES:

- A. ANY MAJOR VENTILATION OUTAGES INDICATED ON THESE DRAWINGS SHALL BE SCHEDULED TO BE PERFORMED AFTER NORMAL BUSINESS HOURS OR DURING WEEKEND PERIODS TO MINIMIZE DISRUPTION.
- B. COORDINATE ALL NEW DUCTWORK ROUTING WITH ALL OTHER TRADES TO INSURE ADEQUATE CLEARANCES FOR PLUMBING, ELECTRICAL CONDUIT, STRUCTURAL SUPPORTS, PIPING, ETC. ANY UNAVOIDABLE CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OF RECORD. PROVIDE ALL OFFSETS AND TRANSITIONS AS REQUIRED FOR A CLEAN INSTALLATION.
- C. SUPPORT ALL DUCTWORK DIRECTLY TO STRUCTURE. DO NOT SUPPORT ANY DUCTS FROM DUCTWORK, CONDUIT, OR OTHER PIPING ENCOUNTERED.
- D. WHERE MECHANICAL SYSTEMS TO REMAIN ARE DAMAGED, OR DISTURBED, DURING THE COURSE OF CONSTRUCTION THE CONTRACTOR WILL BE RESPONSIBLE TO REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL QUALITY AND FUNCTIONALITY.
- E. ALL EXISTING DUCTWORK THROUGH NEW FIRE RATED WALLS SHALL BE ADEQUATELY FIRE SEALED AS REQUIRED.
- F. ALL EXISTING RETURN/EXHAUST DUCTWORK NOT TEMPORARILY CAPPED SHALL BE PROTECTED WITH REMOVABLE FILTER MEDIA TO PROTECT EXISTING DUCT SYSTEMS FROM CONSTRUCTION DEBRIS. ALL NEW DUCTWORK SHALL BE PROTECTED AS REQUIRED AND CLEANED PRIOR TO START-UP. IF CONSTRUCTION DEBRIS IS FOUND INSIDE UNPROTECTED DUCTWORK THAN DUCT CLEANING OF THE ENTIRE SYSTEM SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE.
- G. UNLESS NOTED OTHERWISE, ALL TAKE-OFFS TO VAV BOXES SHALL BE THE SAME SIZE AS THE VAV INLET CONNECTION.
- H. UNLESS NOTED OTHERWISE, ALL TAKE-OFFS TO DIFFUSERS, GRILLES AND REGISTERS SHALL BE THE SAME SIZE AS THE DIFFUSER NECK OR GRILLE/REGISTER CONNECTION.
- I. ALL NEW FIRE, SMOKE, AND COMBINATION FIRE/SMOKE DAMPERS INSTALLED IN SHUTT WALLS SHALL BE INSTALLED TO ALLOW FOR SERVICE OF THEIR FUSIBLE LINK/ACTUATOR PER FACILITY STANDARDS. ANY CONFLICTS WHICH WILL PREVENT ACCESS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER OF RECORD.
- K. MECHANICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL CEILING PLANS FOR LOCATIONS OF GYPSUM BOARD. DO NOT INSTALL VALVES, VAV BOXES, SENSOR, OR DAMPERS ABOVE GYPSUM BOARD CEILING.
- L. MECHANICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL CEILING PLANS FOR LOCATIONS OF GYPSUM BOARD CEILING AND BULKHEADS. ADJUST PIPE AND DUCT THAT RUN PARALLEL TO BULKHEAD FRAMING TO BE EITHER OUTSIDE OF FRAMING OR BETWEEN FRAMING. MECHANICAL CONTRACTOR SHALL COORDINATE WITH EXISTING AND NEW PIPING AND DUCT WILL CAUSE INTERFERENCE.
- M. PROVIDE EACH NEW SUPPLY DIFFUSER/GRILLES WITH A SINGLE BLADE TAKE-OFF DAMPER WITH QUADRANT LOCKING DEVICE. PERFORM ALL BALANCING OF NEW DIFFUSERS THROUGH THOSE TAKE-OFF DAMPERS. ALL NEW RETURN/EXHAUST GRILLES WILL BE PROVIDED WITH OPPOSED BLADE BALANCING DAMPERS POSITIONED UPSTREAM PAST A MINIMUM OF ONE TRANSITION FOR SOUND ABATEMENT. BALANCING ANY DIFFUSERS/GRILLES USING INTEGRAL DAMPERS WILL NOT BE AN APPROVED METHOD OF BALANCING.

KEY NOTES:

- 1. ROUTE 4" DRYER VENT FROM EACH OWNER PROVIDED DRYER TO EXTERIOR WALL. MECHANICAL CONTRACTOR TO PROVIDE SIDEWALL VENT THROUGH EXTERIOR WALL. COORDINATE LOCATION WITH GENERAL CONTRACTOR. REFER TO DRYER INSTALLATION MANUAL FOR APPROVED TERMINATION CAPS AND PROVIDE, OR PAINT, TO A COLOR APPROVED BY ARCHITECT.
- 2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND SOFFIT DETAILS. BOTTOM OF DUCTWORK WILL BE TIGHT TO GYPSUM BOARD WITH MINIMAL SPACE FOR FRAMING SOFFIT. COORDINATE CLOSELY WITH GENERAL CONTRACTOR TO BUILD SOFFIT AROUND DUCTWORK AFTER PRESSURE TESTING IS COMPLETED.
- 3. INSTALL A TYPE 'C' GRILLE WITHIN RATED WALL AND FURNISH WITH APPROPRIATE WALL SLEEVE FOR FIRE DAMPER INSTALLATION DIRECTLY BEHIND. BALANCE TO RETURN AIRFLOW INDICATED FOR LEAKAGE. HEAT REJECTION WITH MAKE-UP AIR PROVIDED FROM DOOR LEAKAGE.
- 4. FIRE SEAL ALL DUCTWORK AND PIPING PENETRATIONS THROUGH RATED WALLS. REFER TO LIFE SAFETY PLAN FOR COORDINATION OF ALL 1-HOUR RATED WALLS THAT WILL REQUIRE FIRE SEALING AROUND ALL PENETRATIONS.

KEY PLAN



1 - HVAC - New - Plot
1/8" = 1'-0"

Revision#	Description	Date
AD-1	Addendum 1	06/15/2021

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 Anderson Engineering of Minnesota, LLC | Proj # Project Number

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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

Name: Jason R. Gottwalt, P.E.
 Date: 05/22/2020 Reg. No. 41360

Project Title		Project Number	
RENOVATE BUILDING 28 FIRST FLOOR EAST RTPT		656-19-306	
Location		Building Number	
SAINT CLOUD, MN		28	
Phase		Drawing Number	
CONSTRUCTION DOCUMENTS		MH111	
Drawing Title		Issue Date	
FIRST HVAC FLOOR PLAN		MAY 22, 2020	
Checked	Drawn		
JRG	TNH		

U.S. Department of Veterans Affairs

Veterans Health Administration

St. Cloud VA Health Care System

CHILLER SCHEDULE - AIR COOLED

MECHANICAL (236423 & 236426)
EQUIPMENT TAG, APPLICATION, TYPE, RATING POINT, EVAPORATOR (WATER SIDE), COMPRESSOR, MECHANICAL NOTES

HYDRONIC PUMP SCHEDULE

MECHANICAL (232123)
EQUIPMENT TAG, APPLICATION, TYPE, DISCHARGE, GLYCOL TYPE, NPSHR, RPM, BHP, SUCTION, DISCHARGE, MECHANICAL NOTES

AIR SEPARATOR SCHEDULE

MECHANICAL (232113)
EQUIPMENT TAG, APPLICATION, GPM, WATER CONNECTION, WPD (FT), STRAINER (YES/NO), MECHANICAL NOTES

EXPANSION TANK SCHEDULE

MECHANICAL (232113)
EQUIPMENT TAG, APPLICATION, TYPE, TANK VOLUME, ACCEPTANCE VOLUME, PRECHARGE PRESSURE, ASME CERTIFIED, MECHANICAL NOTES

FLUID COOLER SCHEDULE - ADD ALTERNATE #4

MECHANICAL (236510)
EQUIPMENT TAG, LOCATION, APPLICATION, FAN PERFORMANCE, MECHANICAL NOTES

FAN SCHEDULE

MECHANICAL (233413, 233416, 233423)
EQUIPMENT TAG, APPLICATION, TYPE, CFM, ESP (IN W.C.), BHP, FAN RPM, DRIVE TYPE, SONES, VFD (YES/NO), MECHANICAL NOTES

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name: Curtis D. Barlage, P.E.
Date: 05/22/2020
Reg. No. 45914

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Name: Jason R. Gottwalt, P.E.
Date: 05/22/2020
Reg. No. 41360

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Project Title: RENOVATE BUILDING 28 FIRST FLOOR EAST RTPT
Location: SAINT CLOUD, MN
Phase: CONSTRUCTION DOCUMENTS
Drawing Title: MECHANICAL/ELECTRICAL SCHEDULES
Issue Date: MAY 22, 2020

Project Number: 656-19-306
Building Number: 28
Drawing Number: MH602
U.S. Department of Veterans Affairs
Veterans Health Administration
St. Cloud VA Health Care System

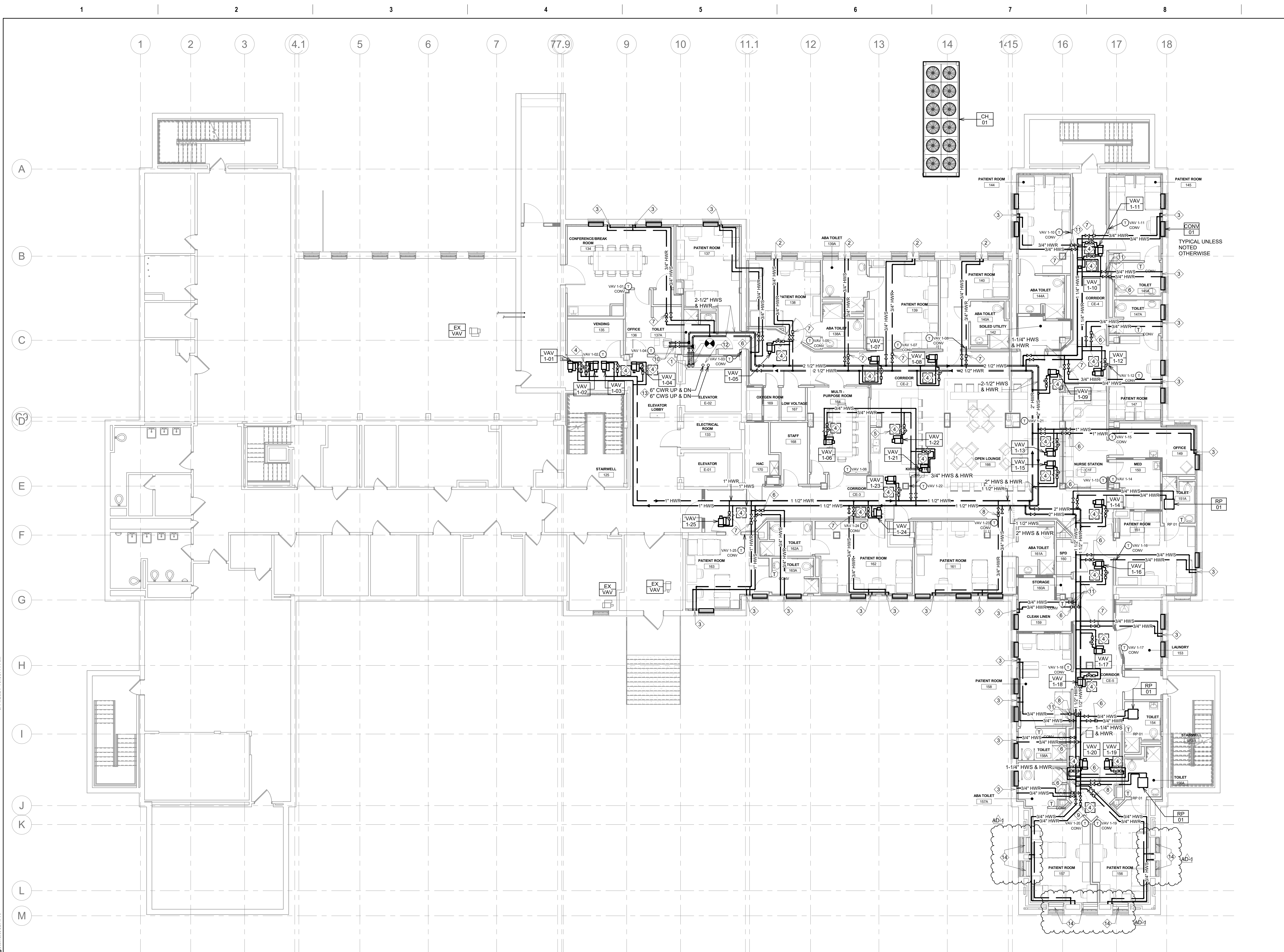
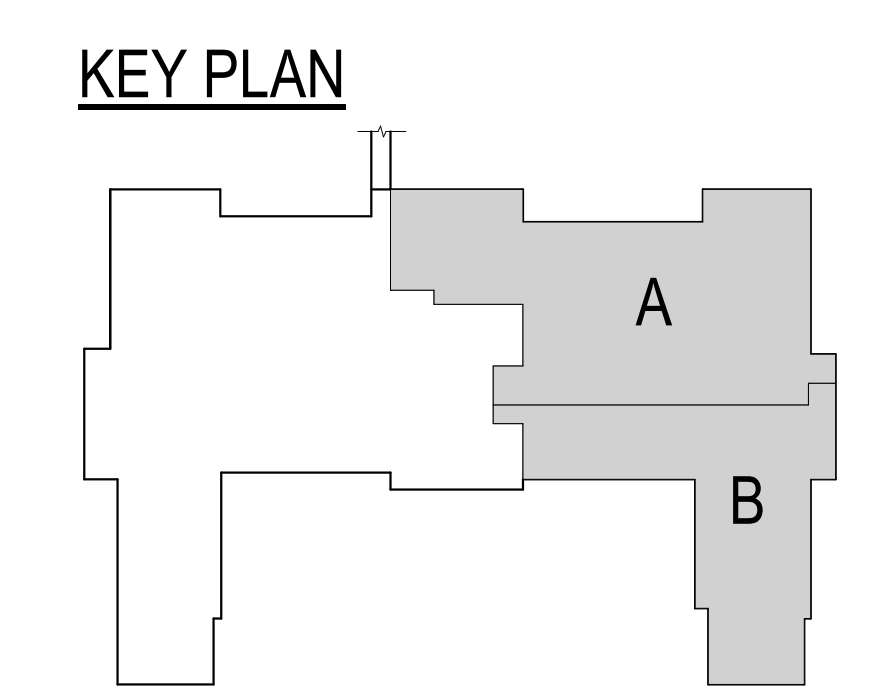
Vertical scale markings on the left side of the page, including 'three inches = one foot', 'one and one half inches = one foot', etc.

GENERAL NOTES:

- A. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE TO REVIEW ACCESSIBILITY TO AREAS OUTSIDE THE CONSTRUCTION LIMITS TO DETERMINE APPROXIMATE AMOUNT OF OVERTIME REQUIRED TO PERFORM ALL MECHANICAL WORK INDICATED. COORDINATION OF SCHEDULES WITH ADJACENT DEPARTMENTS AND CLEANING OF ALL DEBRIS AFTER EACH WORK SHIFT SHOULD BE ASSUMED IN THE BASE BID SCOPE.
- B. ANY MAJOR OUTAGES INDICATED ON THESE DRAWINGS SHALL BE SCHEDULED TO BE PERFORMED AFTER NORMAL BUSINESS HOURS OR DURING WEEKEND PERIODS TO MINIMIZE DISRUPTION.
- C. COORDINATE ALL NEW PIPE ROUTING WITH ALL OTHER TRADES TO ENSURE ADEQUATE CLEARANCES FOR DUCTWORK, ELECTRICAL CONDUIT, STRUCTURAL SUPPORTS, PIPING, ETC. ANY UNAVOIDABLE CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OF RECORD. PROVIDE ALL OFFSETS AND TRANSITIONS AS REQUIRED FOR A CLEAN INSTALLATION.
- D. SUPPORT ALL PIPING DIRECTLY TO STRUCTURE. DO NOT SUPPORT ANY PIPING FROM DUCTWORK, CONDUIT, OR OTHER PIPING ENCOUNTERED.
- E. WHERE MECHANICAL SYSTEMS TO REMAIN ARE DAMAGED, OR DISTURBED, DURING THE COURSE OF CONSTRUCTION THE CONTRACTOR WILL BE RESPONSIBLE TO REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL QUALITY AND FUNCTIONALITY.
- F. ALL EXISTING PIPING THROUGH NEW FIRE RATED WALLS SHALL BE ADEQUATELY FIRE SEALED AS REQUIRED.
- G. THE MECHANICAL CONTRACTOR SHALL MAINTAIN ACCURATE RECORD DRAWINGS SHOWING ALL DISCREPANCIES WITH ANY EXISTING PIPING INDICATED OR REVISIONS TO THE NEW PIPING LAYOUTS. ALL CHANGES WILL BE UPDATED WITHIN THE FINAL RECORD DRAWING SET.
- H. THE SMALLEST ALLOWABLE PIPE SIZE FOR HEATING WATER SUPPLY AND RETURN WILL BE 3/4".
- I. UNLESS NOTED OTHERWISE, HEATING WATER SUPPLY AND RETURN PIPING TAKE-OFFS TO REPEAT COILS SHALL BE 3/4" DIAMETER.
- J. HEATING WATER SUPPLY AND RETURN PIPING TAKE-OFFS SHALL BE OFF THE TOP OF MAIN.
- K. PROVIDE 1/2" DRAIN VALVE AT NEW HEATING WATER SUPPLY AND RETURN PIPE LOW POINTS, DOWNSTREAM OF ISOLATION VALVES.
- L. ALL VALVES TO BE LOCATED ABOVE LAY-IN CEILING FOR ACCESSIBILITY. WHERE VALVES MUST BE LOCATED ABOVE GYPSUM BOARD CEILING, MECHANICAL CONTRACTOR SHALL COORDINATE LOCATIONS OF 24"x24" ACCESS PANELS WITH GENERAL CONTRACTOR.

KEY NOTES:

- 1 EXISTING 6" HEATING WATER SUPPLY AND RETURN AND 2" LOW PRESSURE STEAM UP AND DOWN.
- 2 ROUTE 3/4" HEATING WATER SUPPLY AND RETURN DOWN IN WALL AND CONNECT TO EXISTING CONVECTOR.
- 3 ROUTE 3/4" HEATING WATER SUPPLY AND RETURN DOWN IN WALL AND CONNECT TO NEW CONVECTOR(S). INCLUDE WORK ASSOCIATED WITH OPENING UP EXTERIOR WALL FOR PIPING INSTALLATION (AND DEMO OF OLD STEAM PIPING RISERS WHERE APPLICABLE). NOTE THAT CONTROL VALVE, STRAINER, BALANCING AND ISOLATION VALVES SHALL ALL BE LOCATED OUTSIDE OF THE PATIENT ROOM IN LOCATION WITH DIRECT ACCESS TO CORRESPONDING VAV REHEAT COIL CONTROL VALVE.
- 4 DASHED SQUARE BOX REPRESENTS 24"x24" ACCESS AREA FOR BOTH VAV BOX ACTUATOR, AND THE REHEAT COIL PIPING COMPONENTS SHOWN ON DETAIL 10M/500. NOTE THAT VAV'S PREFERENCE IS TO PROVIDE PRE-PIPED VALVE KITS AS SPECIFIED IN EQUIPMENT SCHEDULE. VERIFY THERE IS ENOUGH CLEARANCE FOR INSTALLATION OF THESE KITS, OR MODIFY THEM AS REQUIRED.
- 5 PROVIDE 24" x 24" ACCESS PANEL IN GYPSUM CEILING. COORDINATE LOCATION WITH GENERAL CONTRACTOR.
- 6 BALANCE TO 1 GPM.
- 7 BALANCE TO 2 GPM.
- 8 BALANCE TO 3 GPM.
- 9 BALANCE TO 4 GPM.
- 10 2-1/2" HEATING WATER SUPPLY AND RETURN PIPING CAPPED AND VALVED FOR FUTURE EXPANSION LOOP TO WEST SIDE OF BUILDING.
- 11 LOCATE CONTROL VALVES AND ASSOCIATED PIPING COMPONENTS IN CORRIDOR CEILING PLENUM. SHOWN HERE FOR CLARITY.
- 12 CONTRACTOR TO OPEN RATED CHASE/SHAFT TO ALLOW ACCESS TO INSTALL NEW CHILLED WATER PIPING RISERS NEXT TO EXISTING HEATING WATER RISERS. COORDINATE EXACT CONFIGURATION OF CHASE TO DETERMINE AMOUNT OF DEMOLITION AND REBUILDING OF RATED SHAFT WALL IS REQUIRED. ALL RISER PIPING FLOOR PENETRATIONS TO BE PROVIDED WITH FLOOR SLAB RAISED 2" ABOVE FLOOR LEVEL TO PREVENT POTENTIAL WATER/FLOODING FROM PENETRATING INTO LOWER LEVELS.
- 13 COORDINATE EXTENSION OF NEW CHILLED WATER RISERS UP TO ATTIC SPACE. REFER TO BASEMENT LEVEL BELOW, AND SECOND FLOOR ABOVE. PIPING PLANS FOR CONTINUATION.
- 14 RECONNECT HEATING WATER SUPPLY/RETURN PIPING TO EXISTING CONVECTORS AND PROVIDE ALL NEW CONTROL VALVES AND PIPING COMPONENTS ABOVE CEILING WITH ADEQUATE ACCESS AS REQUIRED.



1 FIRST FLOOR PIPING PLAN
1/8" = 1'-0"

Revision#	Description	Date
AD-1	Addendum 1	06/15/2021

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 I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.
 Name: Jason R. Gottwalt, P.E.
 Date: 05/22/2020 Reg. No. 41360

Project Title RENOVATE BUILDING 28 FIRST FLOOR EAST RRTP		
Location SAINT CLOUD, MN		
Phase CONSTRUCTION DOCUMENTS		
Drawing Title FIRST FLOOR PIPING PLAN		
Issue Date MAY 22, 2020	Checked JRG	Drawn TNH

Project Number 656-19-306
Building Number 28
Drawing Number MP111

U.S. Department of Veterans Affairs
 Veterans Health Administration
 St. Cloud VA Health Care System

Three inches = one foot

one and one half inches = one foot

one inch = one foot

three quarters inch = one foot

one half inch = one foot

three eighths inch = one foot

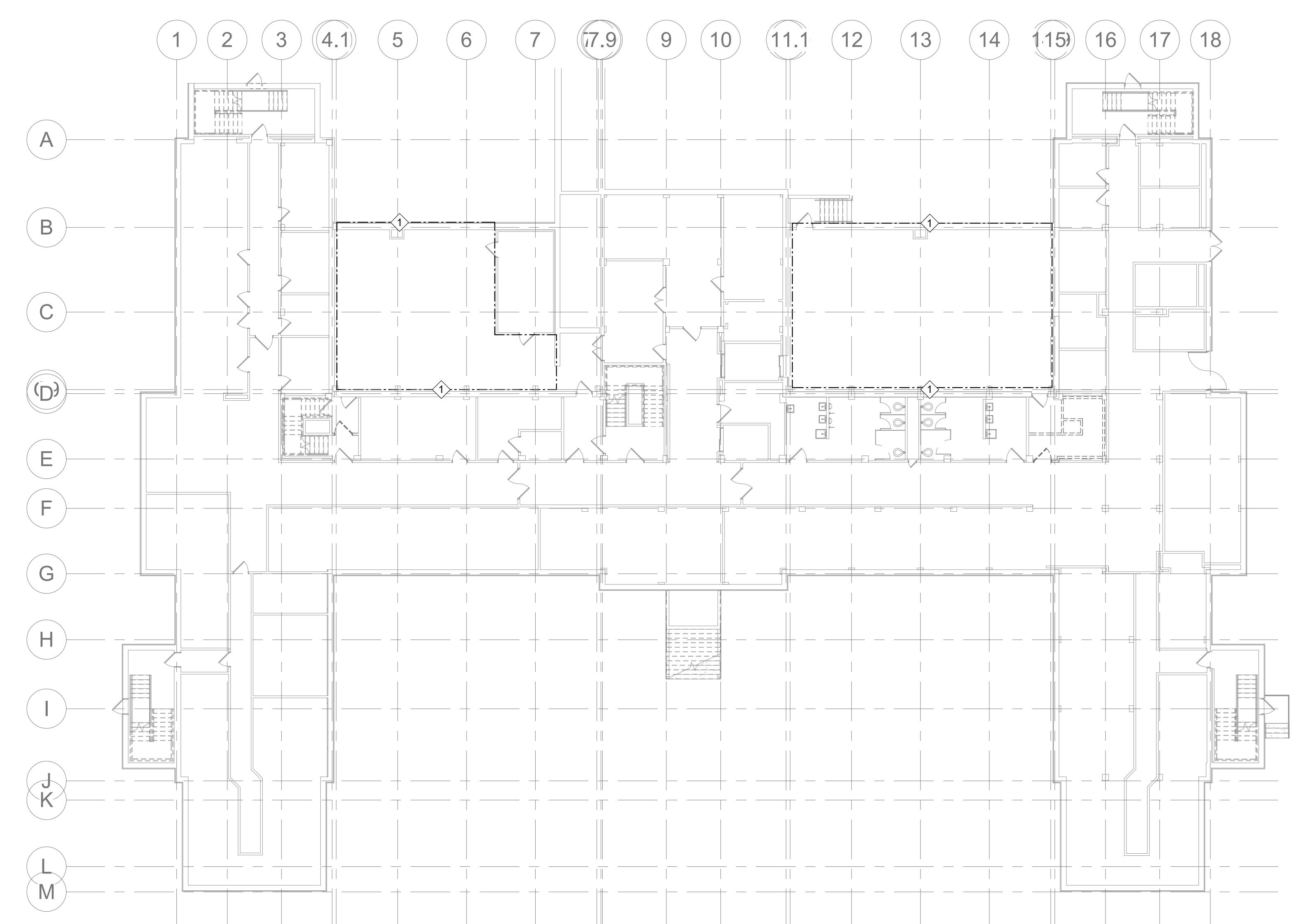
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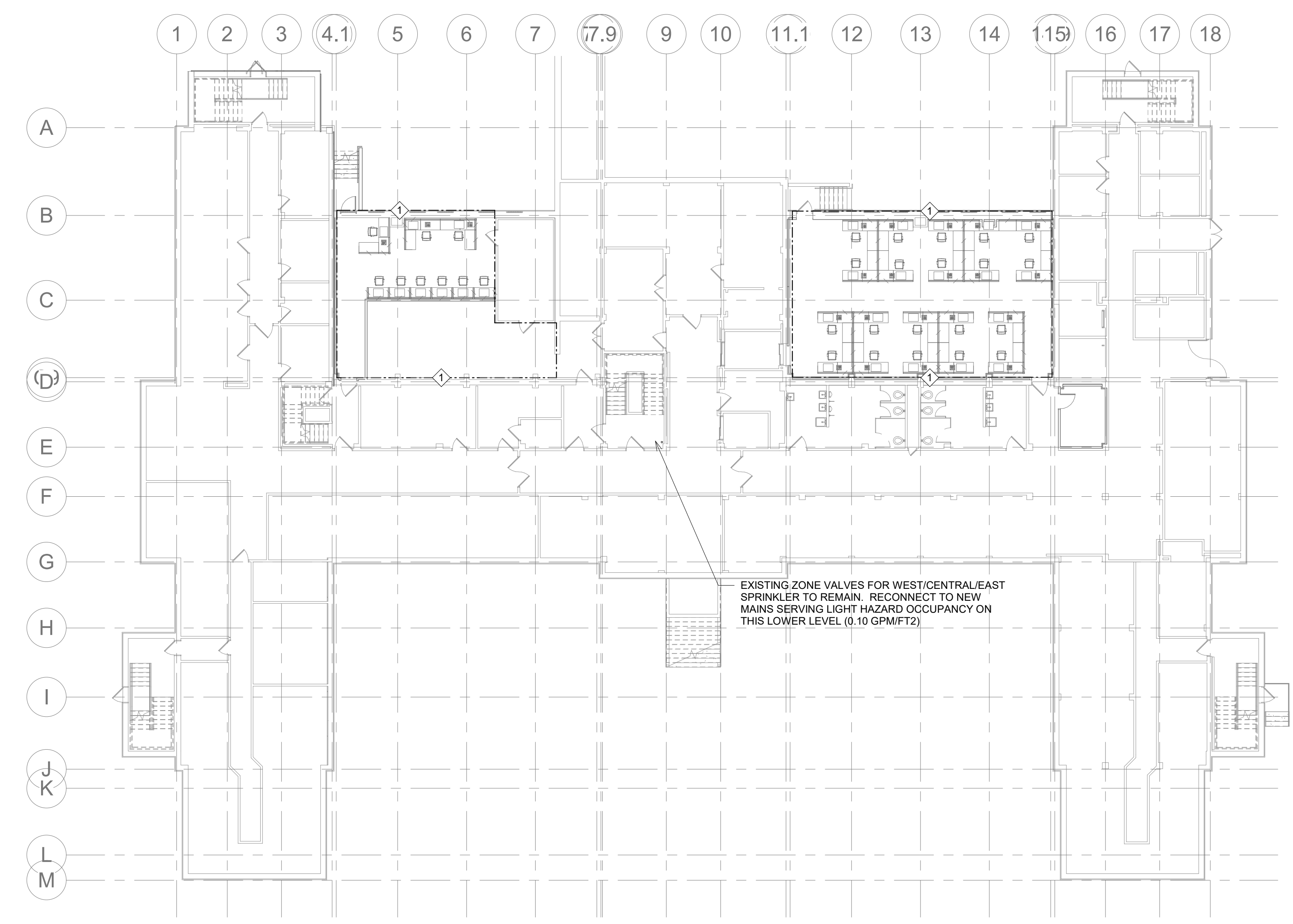
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VA FORM 08 - 6231



1 BASEMENT FIRE PROTECTION DEMOLITION PLAN
1/16" = 1'-0"

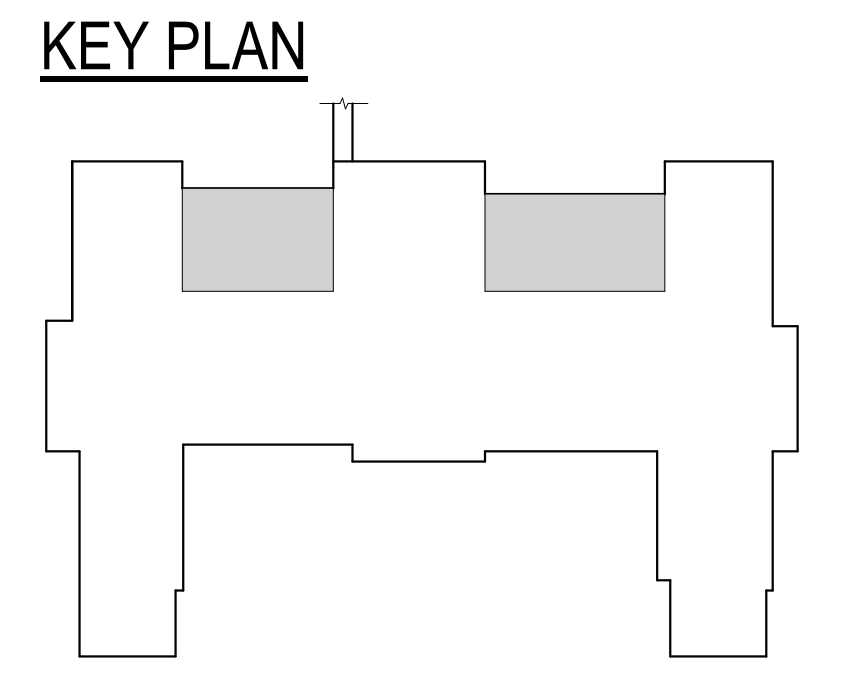


2 BASEMENT FIRE PROTECTION PLAN
1/16" = 1'-0"

EXISTING ZONE VALVES FOR WEST/CENTRAL/EAST SPRINKLER TO REMAIN. RECONNECT TO NEW MAINS SERVING LIGHT HAZARD OCCUPANCY ON THIS LOWER LEVEL (0.10 GPM/FT²)

- GENERAL NOTES:**
- A. PROVIDE 175# PRESSURE RATED PIPING AND FITTINGS. REVISE / REPLACE EXISTING FIRE SPRINKLER PIPING, SPRINKLER HEAD TYPES & LOCATIONS, AND SYSTEM ACCESSORIES AS REQUIRED TO ACCOMMODATE NEW FLOOR LAYOUT, CEILING, AND SYSTEM REQUIREMENTS. ALL AREAS OF CONSTRUCTION SHALL BE FULLY SPRINKLERED.
 - B. THE FIRE SPRINKLER SYSTEM SHALL BE FABRICATED, INSTALLED AND TESTED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
 1. REGULATIONS OF THE LOCAL FIRE PROTECTION AUTHORITIES.
 2. REQUIREMENTS OF THE OWNER'S INSURANCE CARRIER.
 3. NFPA STANDARDS, INCLUDING BUT NOT LIMITED TO, STANDARD NO. 13 - SPRINKLER SYSTEMS, AND NO. 241 - SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMO.
 4. THE CONSTRUCTION DOCUMENTS.
 - C. THE REMODELED AREAS SHALL BE PROVIDED WITH AN AUTOMATIC WET FIRE SPRINKLER SYSTEM SIZED IN ACCORDANCE WITH THE APPLICABLE NFPA STANDARDS AND SHALL PROVIDE 100 PERCENT PROTECTION UNLESS INDICATED OTHERWISE.
 - D. SPRINKLER SYSTEM DESIGN CRITERIA:
 1. LIGHT HAZARD OCCUPANCY - PATIENT CARE, EXAM ROOMS, ADMINISTRATIVE AREAS, AND PUBLIC AREAS.
 2. ORDINARY HAZARD 1 - MECHANICAL EQUIPMENT ROOMS, TRANSFORMER ROOMS, ELECTRICAL SWITCHGEAR ROOMS, ELECTRICAL CLOSETS AND REPAIR SHOPS.
 3. ORDINARY HAZARD 2 - STORAGE ROOMS, TRASH ROOMS, CLEAN AND SOILED LINEN ROOMS, STORAGE AREAS, FILE STORAGE AREAS.
 - E. AREAS OF SPECIAL DESIGN CONSIDERATION INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
 1. QUICK RESPONSE SPRINKLERS INSTALLED IN ALL ROOMS.
 2. SPRINKLERS SHALL BE INSTALLED IN ALL SPACES EXCEPT AS NOTED ON THE DRAWINGS.
 3. SPRINKLERS SHALL BE LOCATED IN THE CENTER OF THE CEILING TILES.
 4. SEE ARCHITECTURAL CEILING PLANS FOR SPECIFIC AESTHETIC CONSIDERATIONS FOR LOCATING SPRINKLERS. FINAL SPRINKLER LOCATIONS WILL BE COORDINATED DURING SUBMITTAL REVIEW.
 - F. SPRINKLER WORK INCLUDES THE DESIGN AND CONSTRUCTION NECESSARY TO PROVIDE A FULLY SPRINKLERED LAYOUT. CONTRACTOR SHALL FIELD VERIFY THE ACCURACY OF THE SHOP DRAWINGS FOR EXISTING AREAS. CONTRACTOR SHALL OBTAIN A CURRENT HYDRANT FLOW TEST AND PERFORM HYDRAULIC CALCULATIONS, AND VERIFY EXACT LOCATION OF THE EXISTING OVERHEAD SYSTEM PRIOR TO DESIGN AND CONSTRUCTION.
 - G. SPRINKLER DESIGN DENSITIES / DEMAND CRITERIA NFPA 13, UNLESS OTHERWISE NOTED:
 1. LIGHT HAZARD - 0.10 GPM / SQ.FT. OVER THE MOST REMOTE 1,500 SQ.FT.
 2. ORDINARY HAZARD 1 - 0.15 GPM / SQ.FT. OVER THE MOST REMOTE 1,500 SQ.FT.
 3. ORDINARY HAZARD 2 - 0.20 GPM / SQ.FT. OVER THE MOST REMOTE 1,500 SQ.FT.
 - H. OBTAIN CERTIFIED TEST RESULTS FOR THE RECORD OF ALL ACCEPTANCE TESTS AS REQUIRED BY NFPA 13 FOR THE INSTALLED SPRINKLER SYSTEM. THE TEST RESULTS SHALL BE REPORTED USING NFPA STANDARD FORMS.
 - I. SPRINKLER HEAD TYPES: PROVIDE QUICK RESPONSE, SEMI-RECESSED, PENDENT SPRINKLERS WITH CHROME ESCUTCHEON. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
 - J. CONTRACTOR SHALL PROVIDE APPROVED PENETRATION MATERIAL FOR FIRE RATED WALLS AS REQUIRED AND INSTALL FIREPROOFING MATERIALS AS REQUIRED.
 - K. CONTRACTOR SHALL PROVIDE PIPE SLEEVES AT ALL FLOOR AND STRUCTURAL WALL OPENINGS, PENETRATIONS THROUGH FLOORS SHALL INCLUDE A 1" WATERPROOFING LIP TO PREVENT WATER FROM PASSING FROM ONE LEVEL TO ANOTHER. ANNULAR SPACE SHALL BE FILLED PER SPECIFICATION.
 - L. SHOP DRAWINGS SHALL BE ROUTED TO ENGINEER ONLY AFTER ALL OTHER PARTIES HAVE REVIEWED AND STAMPED THEM.
 - M. FIRE WATCH DURING HOURS OF CONSTRUCTION WILL BE THE RESPONSIBILITY OF THIS CONTRACT. ALL REMAINING HOURS WHEN SUBCONTRACTORS ARE NOT ON SITE SHALL BE SCHEDULED WITH THE VA TO HAVE THEIR INTERNAL SECURITY STAFF PROVIDE FIRE WATCH MONITORING AND DOCUMENTATION.
 - N. CONTRACTOR SHALL FIELD VERIFY THE ACCURACY OF THE SHOP DRAWINGS FOR EXISTING AREAS. CONTRACTOR SHALL OBTAIN A CURRENT HYDRANT FLOW TEST AND PERFORM HYDRAULIC CALCULATIONS, AND VERIFY EXACT LOCATION OF THE EXISTING OVERHEAD SYSTEM PRIOR TO DESIGN AND CONSTRUCTION.
 - O. CONTRACTOR SHALL PROVIDE TEMPORARY UPRIGHT SPRINKLER HEADS WITHIN CONSTRUCTION LIMITS TO MAINTAIN CONTINUAL SPRINKLER COVERAGE THROUGHOUT ALL PHASES OF CONSTRUCTION.
 - P. VA ST CLOUD DOES NOT ALLOW VICTUALIC FITTINGS ON SPRINKLER PIPING. REFER TO SITE SPECIFIC REQUIREMENTS AND WELD ALL PIPE FITTINGS THAT ARE LARGER THAN 2" (PIPES 2" AND SMALLER MAY UTILIZE THREADED FITTINGS). COORDINATE HOT WORK PERMITS IN ALL AREAS.

- KEY NOTES:**
- PROPOSED AREA OF WORK OUTLINED BY DASH-DOT LINE. ADD NEW PIPING, FITTINGS AND SPRINKLER HEADS AS NECESSARY TO PROVIDE COVERAGE IN REMODELED AREA PER NFPA 13, THE OWNER'S INSURANCE AND THE AUTHORITY HAVING JURISDICTION (AHJ). REVIEW AND COORDINATE LAYOUT WITH ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING, HVAC AND OTHER CEILING MOUNTED DEVICES. HEADS THAT ARE REMOVED ARE TO BE CAPPED AT THEIR BRANCH CONNECTION. MODIFY SPRINKLER HEADS IN ADJACENT AREAS AS REQUIRED TO PROVIDE PROPER COVERAGE DUE TO REVISED PARTITIONS AND CEILING HEIGHTS. DO NOT REINSTALL REMOVED OR RELOCATED SPRINKLER HEADS. ALL SPRINKLERS WITHIN A ROOM BEING MODIFIED MUST BE FULLY REPLACED WITH NEW HEADS OF SAME TEMPERATURE AND RESPONSE RATING.
 - NOTE THAT MOST FIRE SPRINKLER MAINS ARE CURRENTLY INSTALLED LOW, OR IN LOCATIONS THAT WILL INTERFERE WITH NEW DUCTWORK AND PIPING. FIRE PROTECTION CONTRACTOR TO ASSUME ALL EXISTING MAIN AND BRANCH PIPING LINES ROUTED THROUGH THESE AREAS SHALL BE DEMOLISHED AND REINSTALLED FOR COORDINATION WITH ALL OTHER TRADES. ALL NEW PIPING THAT IS LARGER THAN 2" SHALL BE WELDED PER VA ST CLOUD STANDARD REQUIREMENTS. REFER TO GENERAL NOTES ON THIS DRAWING.



Revision#	Description	Date:
AD-1	Addendum 1	06/15/2021

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Name: Jason R. Gottwalt, P.E.
Date: 05/22/2020 Reg. No. 41360

Project Title
RENOVATE BUILDING 28
FIRST FLOOR EAST RTPT

Location
SAINT CLOUD, MN

Phase
CONSTRUCTION DOCUMENTS

Drawing Title
BASEMENT FIRE PROTECTION PLAN

Issue Date
MAY 22, 2020

Checked
JRG

Drawn
TNH

Project Number
656-19-306

Building Number
28

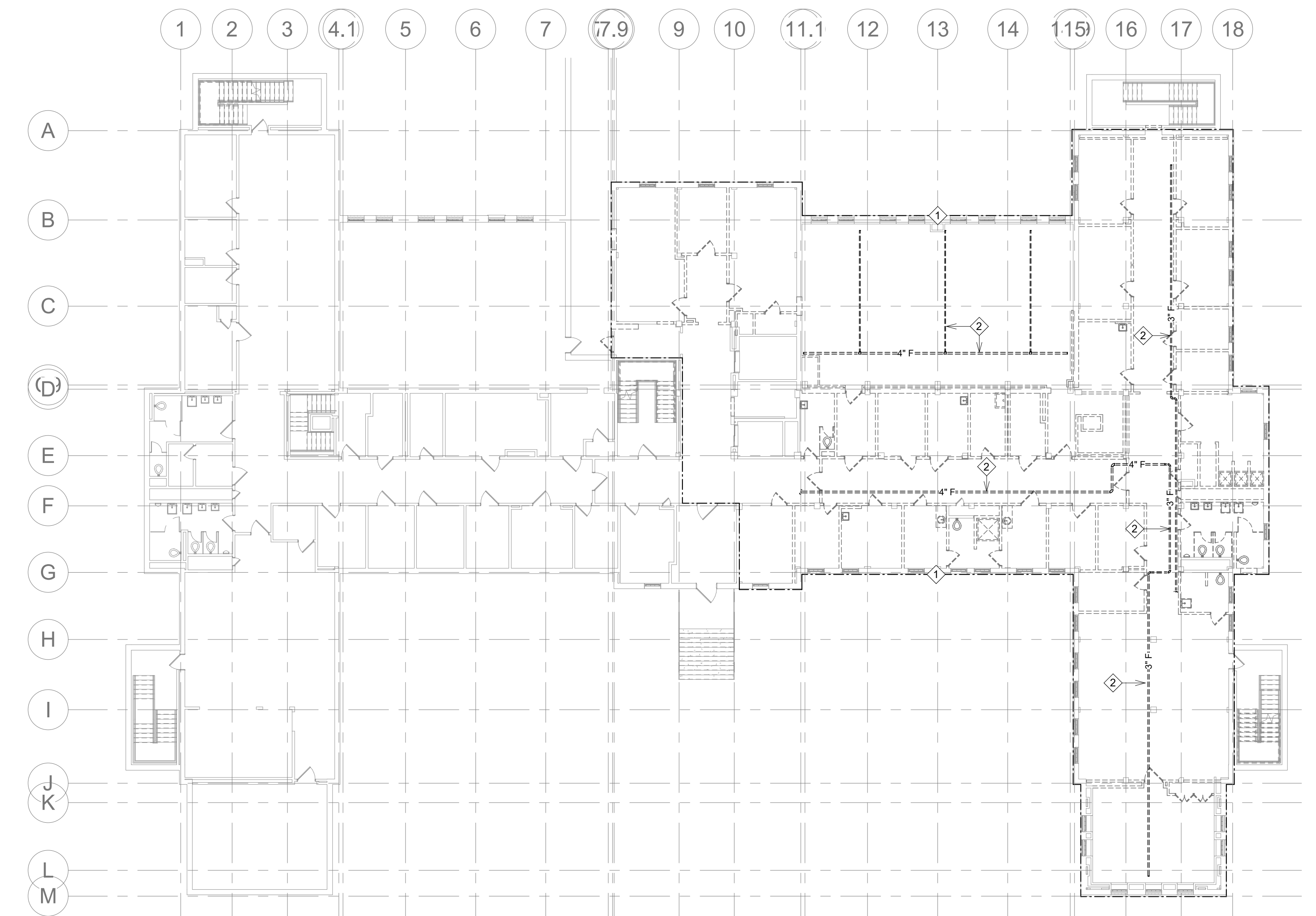
Drawing Number
FP101

VA

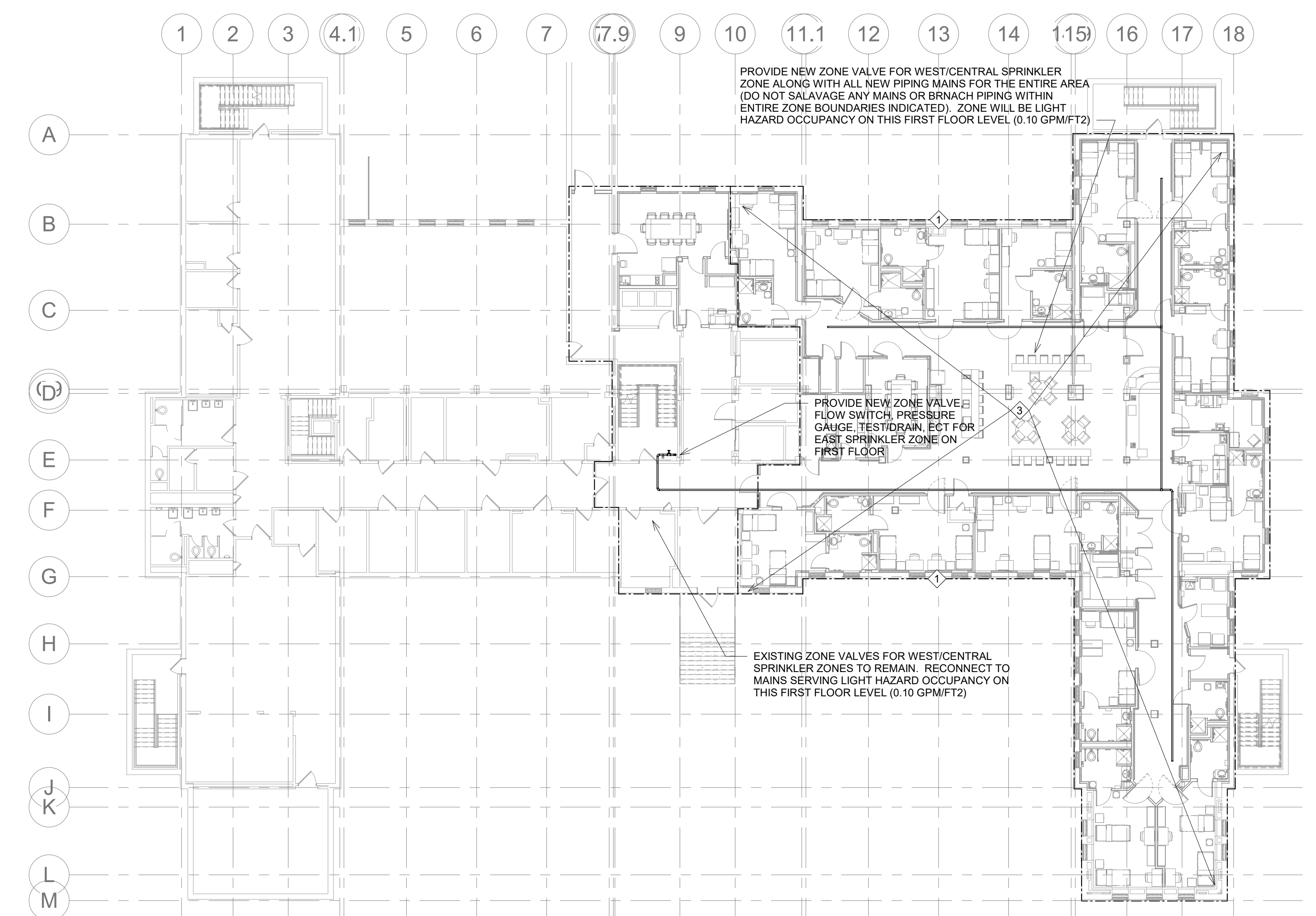
U.S. Department of Veterans Affairs

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St. Cloud VA Health Care System

Vertical scale bars on the left side of the drawing, ranging from 1/8" to 3/8" increments, with corresponding grid lines labeled A through M.



1 FIRST FLOOR FIRE PROTECTION DEMOLITION PLAN 1/16" = 1'-0"



2 FIRST FLOOR FIRE PROTECTION PLAN 1/16" = 1'-0"

GENERAL NOTES:

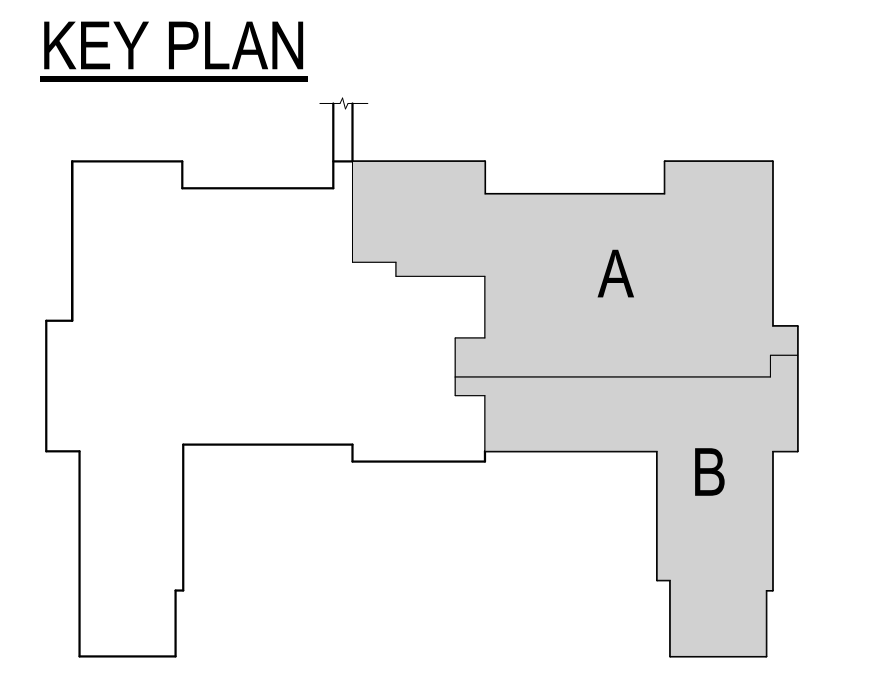
- A. PROVIDE 175# PRESSURE RATED PIPING AND FITTINGS. REVISE / REPLACE EXISTING FIRE SPRINKLER PIPING, SPRINKLER HEAD TYPES & LOCATIONS, AND SYSTEM ACCESSORIES AS REQUIRED TO ACCOMMODATE NEW FLOOR LAYOUT, CEILINGS, AND SYSTEM REQUIREMENTS. ALL AREAS OF CONSTRUCTION SHALL BE FULLY SPRINKLED.
B. THE FIRE SPRINKLER SYSTEM SHALL BE FABRICATED, INSTALLED AND TESTED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
1. REGULATIONS OF THE LOCAL FIRE PROTECTION AUTHORITIES.
2. REQUIREMENTS OF THE OWNER'S INSURANCE CARRIER.
3. NFPA STANDARDS, INCLUDING BUT NOT LIMITED TO, STANDARD NO. 13 - SPRINKLER SYSTEMS, AND NO. 241 - SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMO.
4. THE CONSTRUCTION DOCUMENTS.
C. THE REMODELED AREAS SHALL BE PROVIDED WITH AN AUTOMATIC WET FIRE SPRINKLER SYSTEM SIZED IN ACCORDANCE WITH THE APPLICABLE NFPA STANDARDS AND SHALL PROVIDE 100 PERCENT PROTECTION UNLESS INDICATED OTHERWISE.
D. SPRINKLER SYSTEM DESIGN CRITERIA:
1. LIGHT HAZARD OCCUPANCY - PATIENT CARE, EXAM ROOMS, ADMINISTRATIVE AREAS, AND PUBLIC AREAS.
2. ORDINARY HAZARD 1 - MECHANICAL EQUIPMENT ROOMS, TRANSFORMER ROOMS, ELECTRICAL SWITCHGEAR ROOMS, ELECTRICAL CLOSETS AND REPAIR SHOPS.
3. ORDINARY HAZARD 2 - STORAGE ROOMS, TRASH ROOMS, CLEAN AND SOILED LINEN ROOMS, STORAGE AREAS, FILE STORAGE AREAS.
E. AREAS OF SPECIAL DESIGN CONSIDERATION INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
1. QUICK RESPONSE SPRINKLERS INSTALLED IN ALL ROOMS.
2. SPRINKLERS SHALL BE INSTALLED IN ALL SPACES EXCEPT AS NOTED ON THE DRAWINGS.
3. SPRINKLERS SHALL BE LOCATED IN THE CENTER OF THE CEILING TILES.
4. SEE ARCHITECTURAL CEILING PLANS FOR SPECIFIC AESTHETIC CONSIDERATIONS FOR LOCATING SPRINKLERS. FINAL SPRINKLER LOCATIONS WILL BE COORDINATED DURING SUBMITTAL REVIEW.
F. SPRINKLER WORK INCLUDES THE DESIGN AND CONSTRUCTION NECESSARY TO PROVIDE A FULLY SPRINKLED LAYOUT. CONTRACTOR SHALL FIELD VERIFY THE ACCURACY OF THE SHOP DRAWINGS FOR EXISTING AREAS. CONTRACTOR SHALL OBTAIN A CURRENT HYDRANT FLOW TEST AND PERFORM HYDRAULIC CALCULATIONS, AND VERIFY EXACT LOCATION OF THE EXISTING OVERHEAD SYSTEM PRIOR TO DESIGN AND CONSTRUCTION.
G. SPRINKLER DESIGN DENSITIES / DEMAND CRITERIA NFPA 13, UNLESS OTHERWISE NOTED:
1. LIGHT HAZARD - 0.10 GPM / SQ.FT. OVER THE MOST REMOTE 1,500 SQ.FT.
2. ORDINARY HAZARD 1 - 0.15 GPM / SQ.FT. OVER THE MOST REMOTE 1,500 SQ.FT.
3. ORDINARY HAZARD 2 - 0.20 GPM / SQ.FT. OVER THE MOST REMOTE 1,500 SQ.FT.
H. OBTAIN CERTIFIED TEST RESULTS FOR THE RECORD OF ALL ACCEPTANCE TESTS AS REQUIRED BY NFPA 13 FOR THE INSTALLED SPRINKLER SYSTEM. THE TEST RESULTS SHALL BE REPORTED USING NFPA STANDARD FORMS.
I. SPRINKLER HEAD TYPES: PROVIDE QUICK RESPONSE, SEMI-RECESSED, PENDENT SPRINKLERS WITH CHROME ESCUTCHEON. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
J. CONTRACTOR SHALL PROVIDE APPROVED PENETRATION MATERIAL FOR FIRE RATED WALLS AS REQUIRED AND INSTALL FIREPROOFING MATERIALS AS REQUIRED.
K. CONTRACTOR SHALL PROVIDE PIPE SLEEVES AT ALL FLOOR AND STRUCTURAL WALL OPENINGS, PENETRATIONS THROUGH FLOORS SHALL INCLUDE A 1" WATERPROOFING LIP TO PREVENT WATER FROM PASSING FROM ONE LEVEL TO ANOTHER. ANNULAR SPACE SHALL BE FILLED PER SPECIFICATION.
L. SHOP DRAWINGS SHALL BE ROUTED TO ENGINEER ONLY AFTER ALL OTHER PARTIES HAVE REVIEWED AND STAMPED THEM.
M. FIRE WATCH DURING HOURS OF CONSTRUCTION WILL BE THE RESPONSIBILITY OF THIS CONTRACT. ALL REMAINING HOURS WHEN SUBCONTRACTORS ARE NOT ON SITE SHALL BE SCHEDULED WITH THE VA TO HAVE THEIR INTERNAL SECURITY STAFF PROVIDE FIRE WATCH MONITORING AND DOCUMENTATION.
N. CONTRACTOR SHALL FIELD VERIFY THE ACCURACY OF THE SHOP DRAWINGS FOR EXISTING AREAS. CONTRACTOR SHALL OBTAIN A CURRENT HYDRANT FLOW TEST AND PERFORM HYDRAULIC CALCULATIONS, AND VERIFY EXACT LOCATION OF THE EXISTING OVERHEAD SYSTEM PRIOR TO DESIGN AND CONSTRUCTION.
O. CONTRACTOR SHALL PROVIDE TEMPORARY UPRIGHT SPRINKLER HEADS WITHIN CONSTRUCTION LIMITS TO MAINTAIN CONTINUAL SPRINKLER COVERAGE THROUGHOUT ALL PHASES OF CONSTRUCTION.
P. VA ST CLOUD DOES NOT ALLOW VICTUALIC FITTINGS ON SPRINKLER PIPING. REFER TO SITE SPECIFIC REQUIREMENTS AND WELD ALL PIPE FITTINGS THAT ARE LARGER THAN 2" PIPING 2" AND SMALLER MAY UTILIZE THREADED FITTINGS, COORDINATE HOT WORK PERMITS IN ALL AREAS.

KEY NOTES:

- PROPOSED AREA OF WORK OUTLINED BY DASH-DOT LINE. ADD NEW PIPING, FITTINGS AND SPRINKLER HEADS AS NECESSARY TO PROVIDE COVERAGE IN REMODELED AREA PER NFPA 13. THE OWNER'S INSURANCE AND THE AUTHORITY HAVING JURISDICTION (AHJ) REVIEW AND COORDINATE LAYOUT WITH ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING, HVAC AND OTHER CEILING MOUNTED DEVICES. HEADS THAT ARE REMOVED ARE TO BE CAPED AT THEIR BRANCH CONNECTION. MODIFY SPRINKLER HEADS IN ADJACENT AREAS AS REQUIRED TO PROVIDE PROPER COVERAGE DUE TO REVISED PARTITIONS AND CEILING HEIGHTS. NO PIPING OR SPRINKLER HEADS WILL BE SALVAGED IN THIS AREA, REPLACE ALL IN ITS ENTIRETY.
DEMOLISH ALL SPRINKLER MAIN PIPING AND ASSOCIATED BRANCHES WITH SPRINKLER HEADS IN REMODELED AREA. NO PIPING SHALL BE LEFT IN PLACE THROUGH THE ENTIRE PROJECT AREA. REFER TO PROJECT PHASING NOTES ON THIS DRAWING.
PROVIDE ALL NEW PIPING MAINS AND ASSOCIATED BRANCHES WITH QUICK RESPONSE SEMI-RECESSED SPRINKLER HEADS. INSTAL PIPING UP CLOSE TO STRUCTURE. DUE TO TIGHT CEILING CONDITIONS, AND LARGE SCALE OF PLASTER CEILING REMOVAL, THE CONTRACTOR WILL NOT BE ALLOWED TO SALVAGE AND REUSE ANY SPRINKLER PIPING IN THIS ENTIRE PROJECT AREA. EXTENDED FIRE WATCH WILL NOT BE ACCEPTABLE TO VA. REFER TO PROJECT PHASING NOTES ON THIS DRAWING.

KEY NOTES: PHASING & INSTALL

- FIRE PROTECTION CONTRACTOR SHALL COMPLY WITH THE FOLLOWING INSTALLATION AND PHASING REQUIREMENTS TO COORDINATE WITH OTHER TRADES AND MINIMIZE SPRINKLER OUTAGES AND RELATED FIRE WATCH REQUIREMENTS.
1. ANY PIPING DEMOLITION SHALL NOT OCCUR UNTIL AFTER NEW SPRINKLER PIPING MAINS ARE INSTALLED. REFER TO NOTES BELOW ABOUT INSTALLATION OF NEW PIPING MAINS AND BRANCHES. NOTE THAT EXISTING PIPING MAY NEED TEMPORARY SUPPORT HANGERS WHILE DEMOLITION OF PLASTER CEILINGS OCCUR.
2. COMPLETELY REINSTALL NEW PIPING MAINS UP TO EXISTING ZONE VALVE. INSTALL MAINS UP TIGHT TO STRUCTURE AFTER ALL PLASTER CEILINGS HAVE BEEN DEMOLISHED. COORDINATE INSTALLATION OF MAINS AND BRANCH PIPING WITH ALL OTHER SUBCONTRACTS SINCE SPRINKLER PIPING WILL BE FIRST ON INSTALLATION SEQUENCE. NOTE THAT BECAUSE PIPING MAINS ARE BEING INSTALLED HIGH THAT SIDE TAKE-OFFS WILL NEED TO BE UTILIZED. HOWEVER, BOTTOM TAKE-OFFS OF BRANCH PIPING WILL NOT BE ACCEPTABLE WITHOUT WRITTEN APPROVAL/EXCEPTION.
3. INSTALL TEMPORARY UPRIGHT SPRINKLER HEADS, WITH PROTECTIVE CAGES, ON ALL NEW SPRINKLER MAINS. ATTEMPT TO COORDINATE USE OF THESE BRANCH PIPING TAKE-OFFS TO ALSO BE UTILIZED FOR FINAL BRANCH PIPING CONNECTIONS.
4. ONCE ALL NEW SPRINKLER MAIN PIPING, AND TEMPORARY UPRIGHT HEADS, ARE INSTALLED. CONNECT NEW PIPING MAIN INTO EXISTING ZONE VALVE AND DISCONNECT EXISTING MAIN THAT WILL NOW BE ALLOWED TO BE DEMOLISHED IN ITS ENTIRETY THROUGHOUT THE PROJECT AREA. REFER TO DEMOLITION KEY NOTE FOR REMOVAL OF ALL PIPING AND SPRINKLER HEADS.
5. FIRE PROTECTION CONTRACTOR TO INCLUDE ALLOWANCE TO ADJUST LOCATIONS OF UPRIGHT HEADS THROUGHOUT CONSTRUCTION SCHEDULE / PHASING TO ACCOMMODATE FOR OBSTRUCTIONS CAUSED BY NEW DUCTWORK OR PARTITIONS/WALLS.
6. PRIOR TO FINAL CEILING INSTALLATION. FIRE PROTECTION CONTRACTOR SHALL REMOVE ALL EXISTING UPRIGHT SPRINKLER HEADS AND RECONFIGURE BRANCH PIPING TO NEW SEMI-RECESSED QUICK RESPONSE HEADS. REFER TO GENERAL NOTES, AND PROJECT SPECIFICATIONS, FOR INSTALLATION REQUIREMENTS.
7. DURING SHORT PERIODS WHERE SPRINKLER PIPING IS OUT OF SERVICE TO PROJECT AREA THE CONTRACTOR WILL BE RESPONSIBLE FOR ASSOCIATED FIRE WATCH ACTIVITIES. LIMIT OUTAGES TO PERIODS OF TIME WHILE CONTRACTOR IS ON SITE IF POSSIBLE.



Revision table with columns for Revision#, Description, and Date. Includes entries for Addendum 1 and a specific revision on 06/15/2021.

CONSULTANT: DUNHAM, 50 South Sixth Street / Suite 1100, Minneapolis, Minnesota 55402-1540. Includes contact information for mechanical and electrical consulting engineering.

ARCHITECT/ENGINEER OF RECORD: ANDERSON, 13605 1st Ave. N., #100 Plymouth, MN 55441. Includes contact information and project number.

STAMP: I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota. Name: Jason R. Gottwalt, P.E. Date: 05/22/2020. Reg. No. 41360.

Project Title: RENOVATE BUILDING 28 FIRST FLOOR EAST RTPT. Location: SAINT CLOUD, MN. Phase: CONSTRUCTION DOCUMENTS. Drawing Title: FIRST FLOOR FIRE PROTECTION PLAN. Issue Date: MAY 22, 2020. Checked: JRG. Drawn: TNH.

Project Number: 656-19-306. Building Number: 28. Drawing Number: FP111. Includes the VA logo and U.S. Department of Veterans Affairs logo.

U.S. Department of Veterans Affairs logo and text: Veterans Health Administration, St. Cloud VA Health Care System.

GENERAL NOTES:

- A. PROVIDE 17# PRESSURE RATED PIPING AND FITTINGS. REVISE / REPLACE EXISTING FIRE SPRINKLER PIPING, SPRINKLER HEAD TYPES & LOCATIONS, AND SYSTEM ACCESSORIES AS REQUIRED TO ACCOMMODATE NEW FLOOR LAYOUT, CEILINGS, AND SYSTEM REQUIREMENTS. ALL AREAS OF CONSTRUCTION SHALL BE FULLY SPRINKLED.
- B. THE FIRE SPRINKLER SYSTEM SHALL BE FABRICATED, INSTALLED AND TESTED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
 - 1. REGULATIONS OF THE LOCAL FIRE PROTECTION AUTHORITIES.
 - 2. REQUIREMENTS OF THE OWNER'S INSURANCE CARRIER.
 - 3. NFPA STANDARDS, INCLUDING BUT NOT LIMITED TO STANDARD NO. 13 - SPRINKLER SYSTEMS, AND NO. 241 - SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMO.
 - 4. THE CONSTRUCTION DOCUMENTS.
- C. THE REMODELED AREAS SHALL BE PROVIDED WITH AN AUTOMATIC WET FIRE SPRINKLER SYSTEM SIZED IN ACCORDANCE WITH THE APPLICABLE NFPA STANDARDS AND SHALL PROVIDE 100 PERCENT PROTECTION UNLESS INDICATED OTHERWISE.
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 - 1. LIGHT HAZARD OCCUPANCY - PATIENT CARE, EXAM ROOMS, ADMINISTRATIVE AREAS, AND PUBLIC AREAS.
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 - 1. QUICK RESPONSE SPRINKLERS INSTALLED IN ALL ROOMS.
 - 2. SPRINKLERS SHALL BE INSTALLED IN ALL SPACES EXCEPT AS NOTED ON THE DRAWINGS.
 - 3. SPRINKLERS SHALL BE LOCATED IN THE CENTER OF THE CEILING TILES.
 - 4. SEE ARCHITECTURAL CEILING PLANS FOR SPECIFIC AESTHETIC CONSIDERATIONS FOR LOCATING SPRINKLERS. FINAL SPRINKLER LOCATIONS WILL BE COORDINATED DURING SUBMITTAL REVIEW.
- F. SPRINKLER WORK INCLUDES THE DESIGN AND CONSTRUCTION NECESSARY TO PROVIDE A FULLY SPRINKLED LAYOUT. CONTRACTOR SHALL FIELD VERIFY THE ACCURACY OF THE SHOP DRAWINGS FOR EXISTING AREAS. CONTRACTOR SHALL OBTAIN A CURRENT HYDRANT FLOW TEST AND PERFORM HYDRAULIC CALCULATIONS, AND VERIFY EXACT LOCATION OF THE EXISTING OVERHEAD SYSTEM PRIOR TO DESIGN AND CONSTRUCTION.
- G. SPRINKLER DESIGN DENSITIES / DEMAND CRITERIA NFPA 13, UNLESS OTHERWISE NOTED:
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 - 2. ORDINARY HAZARD 1 - 0.15 GPM / SQ.FT. OVER THE MOST REMOTE 1,500 SQ.FT.
 - 3. ORDINARY HAZARD 2 - 0.20 GPM / SQ.FT. OVER THE MOST REMOTE 1,500 SQ.FT.
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- I. SPRINKLER HEAD TYPES: PROVIDE QUICK RESPONSE, SEMI-RECESSED, PENDENT SPRINKLERS WITH CHROME ESCUTCHEON. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
- J. CONTRACTOR SHALL PROVIDE PENETRATION MATERIAL FOR FIRE RATED WALLS AS REQUIRED AND INSTALL FIREPROOFING MATERIALS AS REQUIRED.
- K. CONTRACTOR SHALL PROVIDE PIPE SLEEVES AT ALL FLOOR AND STRUCTURAL WALL OPENINGS, PENETRATIONS THROUGH FLOORS SHALL INCLUDE A T WATERPROOFING LIP TO PREVENT WATER FROM PASSING FROM ONE LEVEL TO ANOTHER. ANNULAR SPACE SHALL BE FILLED PER SPECIFICATION.
- L. SHOP DRAWINGS SHALL BE ROUTED TO ENGINEER ONLY AFTER ALL OTHER PARTIES HAVE REVIEWED AND STAMPED THEM.
- M. FIRE WATCH DURING HOURS OR CONSTRUCTION WILL BE THE RESPONSIBILITY OF THIS CONTRACT. ALL REMAINING HOURS WHEN SUBCONTRACTORS ARE NOT ON SITE SHALL BE SCHEDULED WITH THE VA TO HAVE THEIR INTERNAL SECURITY STAFF PROVIDE FIRE WATCH MONITORING AND DOCUMENTATION.
- N. CONTRACTOR SHALL FIELD VERIFY THE ACCURACY OF THE SHOP DRAWINGS FOR EXISTING AREAS. CONTRACTOR SHALL OBTAIN A CURRENT HYDRANT FLOW TEST AND PERFORM HYDRAULIC CALCULATIONS, AND VERIFY EXACT LOCATION OF THE EXISTING OVERHEAD SYSTEM PRIOR TO DESIGN AND CONSTRUCTION.
- O. CONTRACTOR SHALL PROVIDE TEMPORARY UPRIGHT SPRINKLER HEADS WITHIN CONSTRUCTION LIMITS TO MAINTAIN CONTINUAL SPRINKLER COVERAGE THROUGHOUT ALL PHASES OF CONSTRUCTION.
- P. VA ST CLOUD DOES NOT ALLOW VICTUALIC FITTINGS ON SPRINKLER PIPING. REFER TO SITE SPECIFIC REQUIREMENTS AND WELD ALL PIPE FITTINGS THAT ARE LARGER THAN 2" (PIPING 2" AND SMALLER MAY UTILIZE THREADED FITTINGS), COORDINATE HOT WORK PERMITS IN ALL AREAS.

KEY NOTES:

- 1. PROPOSED AREA OF WORK OUTLINED BY DASH-DOT LINE. MODIFY EXISTING PIPING, FITTINGS AND SPRINKLER HEADS AS NECESSARY TO PROVIDE COVERAGE IN REMODELED AREA PER NFPA 13. THE OWNER'S INSURANCE AND THE AUTHORITY HAVING JURISDICTION (AHJ), ALTER SPRINKLER HEAD LOCATIONS TO PROVIDE COVERAGE AROUND NEW OBSTRUCTIONS CREATED BY MECHANICAL SYSTEM MODIFICATION. REPLACE ALL SPRINKLER HEADS WITHIN ENTIRE ATTIC AREA TO MATCH RESPONSE AND TEMPERATURE RATING. EXISTING PIPING MAY BE SALVAGED IF NOT INTERFERING WITH OTHER TRADES.
- 2. COORDINATE WITH PHASING PLANS TO PROVIDE CONTINUAL SPRINKLER COVERAGE DURING EACH PHASE OF CONSTRUCTION. ANY OUTAGES SHALL OCCUR DURING NORMAL BUSINESS HOURS WHILE GENERAL CONTRACTOR IS ON SITE AND PERFORMING FIRE WATCH DUTIES AND KEEPING APPROPRIATE RECORD KEEPING LOGS. NOTIFY VA OF ANY ANTICIPATED OUTAGES A MINIMUM OF 2-WEEKS IN ADVANCE TO ALLOW TIME FOR INTERIM LIFE SAFETY MEASURES IF REQUIRED.
- 3. GABLE ENDS OF ROOF WILL BE OPENED DURING EACH PROJECT PHASE TO ALLOW NEW EQUIPMENT AND MATERIAL TO BE LIFTED BY CRANE INTO ATTIC SPACE. IF THIS WORK OCCURS DURING PERIODS OF BELOW FREEZING WEATHER THAN FIRE PROTECTION CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PROTECT, OR TEMPORARILY DRAIN, ACTIVE SPRINKLER PIPING WITHIN IMMEDIATE AREA OF RISK.
- 4. NOTE THAT ATTIC IS MOSTLY WOOD STRUCTURE. VA ST CLOUD DOES NOT ALLOW USE OF VICTUALIC FITTINGS SO THAT WELDING OF FITTINGS WILL BE REQUIRED. CONTRACTOR TO TAKE ADEQUATE PRECAUTIONS TO PREVENT FIRE RISK OF EXISTING COMBUSTIBLE STRUCTURE IN THIS AREA. ANY REPLACED PIPING WITH EXISTING VICTUALIC FITTINGS FOUND SHALL BE REPLACED BY WELDED FITTINGS FOR PIPING 2" AND LARGER (SCREWED FITTINGS ACCEPTABLE FOR PIPING 2" AND SMALLER) BY THE FIRE PROTECTION CONTRACTOR. THIS INCLUDES ANY NEW TEE CONNECTIONS INTO EXISTING MAINS OR BRANCH PIPING.

1 ATTIC FLOOR FIRE PROTECTION PLAN - PHASE 1
1/16" = 1'-0"

2 ATTIC FLOOR FIRE PROTECTION PLAN - PHASE 2
1/16" = 1'-0"

3 ATTIC FLOOR FIRE PROTECTION PLAN - PHASE 3
1/16" = 1'-0"

4 ATTIC FLOOR FIRE PROTECTION PLAN - PHASE 4
1/16" = 1'-0"

DO NOT PERFORM PHASE 3 OR 4 WORK UNDER ACCEPTANCE OF DEDUCT ALTERNATE #2.

DO NOT PERFORM PHASE 3 OR 4 WORK UNDER ACCEPTANCE OF DEDUCT ALTERNATE #2.

Revision#	Description	Date
AD-1	Addendum 1	06/15/2021

CONSULTANT

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 Anderson Engineering of Minnesota, LLC | Proj # Project Number

STAMP

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a Licensed Professional Engineer under the laws of the State of Minnesota.

Name: Jason R. Gottwalt, P.E.
 Date: 05/22/2020 Reg. No. 41360

Project Title
 RENOVATE BUILDING 28
 FIRST FLOOR EAST RTPT

Location
 SAINT CLOUD, MN

Phase
 CONSTRUCTION DOCUMENTS

Drawing Title
 ATTIC FLOOR FIRE PROTECTION PLANS

Issue Date
 MAY 22, 2020

Checked
 JRG

Drawn
 TNH

Project Number
 656-19-306

Building Number
 28

Drawing Number
 FP131

U.S. Department of Veterans Affairs

Veterans Health Administration

St. Cloud VA Health Care System

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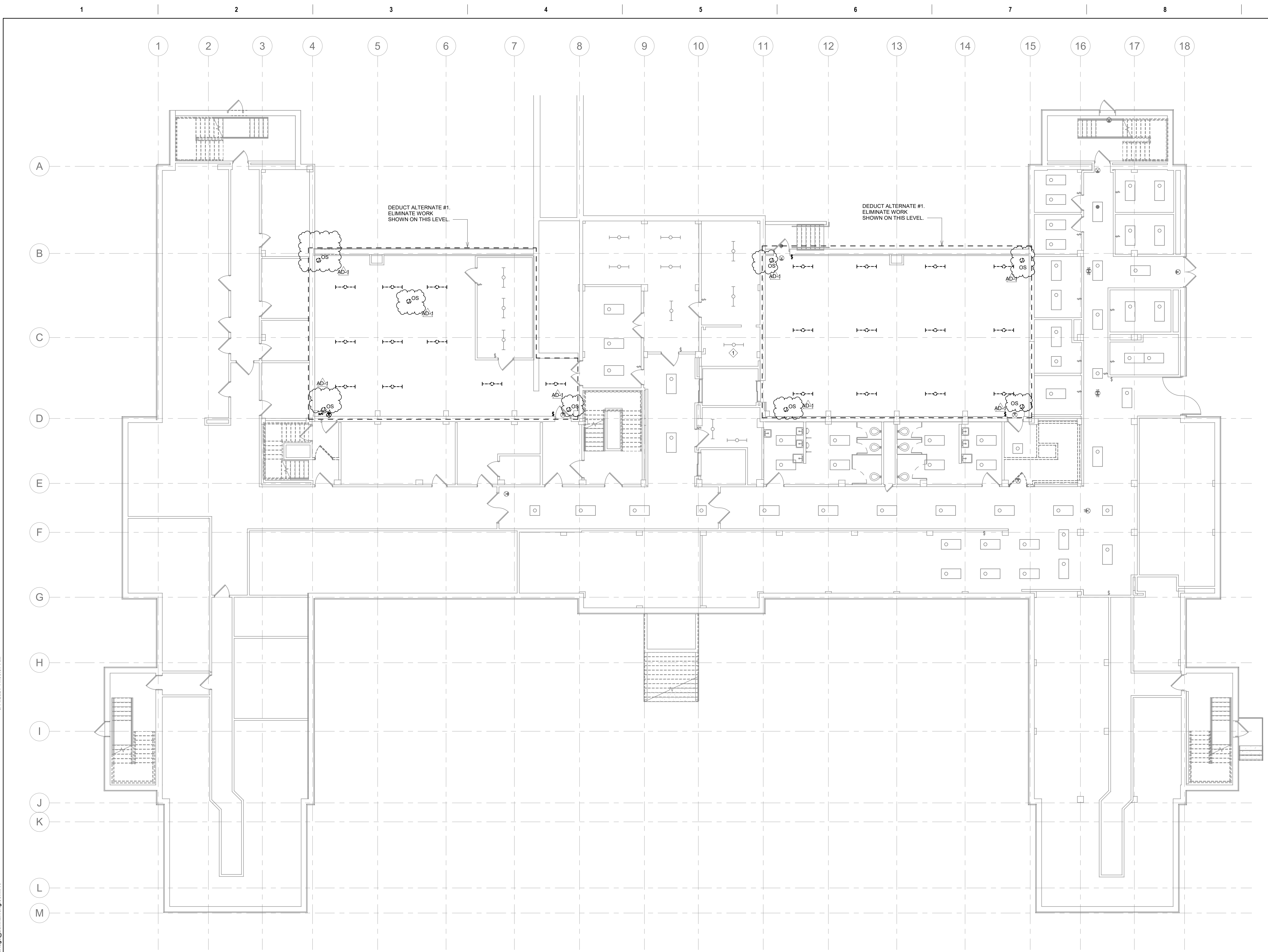
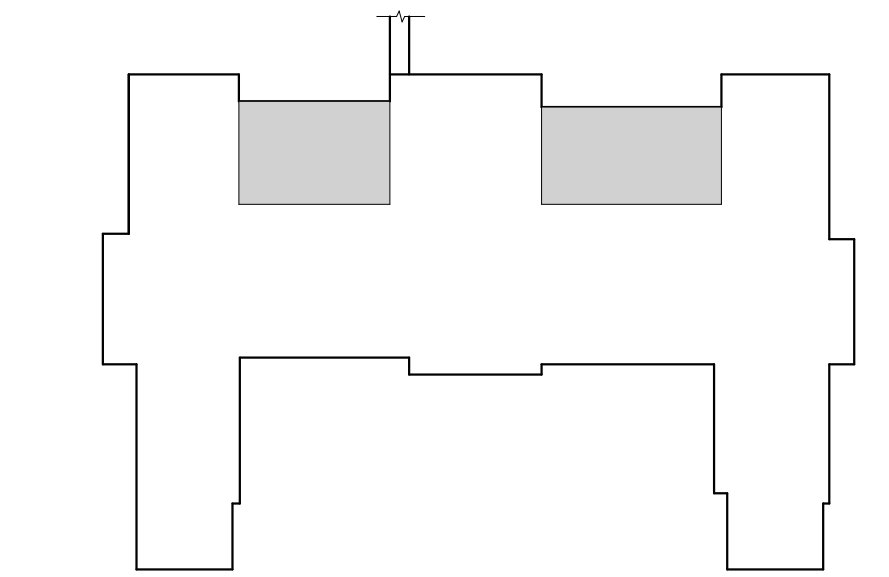
GENERAL NOTES:

- A. BUILDING WILL BE IN USE DURING CONSTRUCTION. SCHEDULE AND CARRY OUT THE WORK IN SUCH A MANNER AS TO CAUSE THE OWNER A MINIMUM OF INCONVENIENCE DUE TO SERVICE INTERRUPTION. TEMPORARY SERVICES (FEEDER, BRANCH CIRCUIT, AND SIGNAL SYSTEMS) SHALL BE INSTALLED IF ONE AREA OR PHASE OF CONSTRUCTION DISRUPTS SERVICE TO ANOTHER AREA OF THE BUILDING(S) OR IF THE EQUIPMENT, CONDUITS, OR FEEDERS HAVE TO BE RELOCATED TO ALLOW CONSTRUCTION TO PROGRESS. SERVICE INTERRUPTIONS SHALL BE CONFINED TO THE SMALLEST AREA POSSIBLE AT ANY ONE TIME AND INTERRUPTIONS SHALL BE SCHEDULED WITH THE OWNER'S SITE REPRESENTATIVE. THERE SHALL BE DESIGNATED AREAS WHERE INTERRUPTIONS LIMITED TO AND SHALL BE CONDUCTED AFTER HOURS (8:00 PM - 4:00 AM) MONDAY THROUGH SATURDAY. AFTER SERVICE HAS BEEN RESTORED FOLLOWING AN INTERRUPTION, INSPECT AREAS AFFECTED BY THE INTERRUPTION AND BE RESPONSIBLE FOR RETURNING AUTOMATICALLY CONTROLLED EQUIPMENT TO THE SAME OPERATING CONDITION WHICH EXISTED PRIOR TO THE INTERRUPTION.
- B. SIGNIFICANT NOISE PRODUCING WORK SHALL BE CONDUCTED AFTER HOURS (8:00 PM - 6:00AM)
- C. REMOVE, REPLACE, RELOCATE, ETC. ANY ELECTRICAL DEVICES AND/OR ANY CONDUIT/WIRING AS REQUIRED TO COMPLETE REMODELING AS INDICATED IN THE CONTRACT DOCUMENTS.
- D. DRAWINGS INDICATE EXISTING CONDITIONS AS THEY WERE INDICATED ON OWNER PROVIDED AS-BUILT DRAWINGS AND SITE VERIFICATION. ACTUAL CONDITIONS MAY VARY FROM THE CONDITIONS INDICATED. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXACT CONDITIONS.
- E. ALL DEVICES, EQUIPMENT, CABLING, ETC. INDICATED IN THE CONTRACT DOCUMENTS TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF IN ACCORDANCE WITH LOCAL AND FEDERAL REGULATIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- F. DEMOLISH HOME RUN WIRING BACK TO SOURCE UNLESS NOTED OTHERWISE. DO NOT LEAVE CONDUCTORS ABANDONED IN WIREWAY.
- G. TEMPORARILY SUPPORT ELECTRICAL FIXTURES, EQUIPMENT, CONDUITS, AND CABLING AS REQUIRED FOR MECHANICAL WORK. REINSTALL AFTER COMPLETION OF WORK.

KEY NOTES:

- ◊ RELOCATE LIGHTING AS REQUIRED FOR MECHANICAL EQUIPMENT.

KEY PLAN



1 BASEMENT LIGHTING DEMOLITION PLAN
1/8" = 1'-0"

Revision#	Description	Date
1	Addendum 1	06/15/2021

CONSULTANT

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 Anderson Engineering of Minnesota, LLC | Proj # Project Number

STAMP

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name: Curtis D. Barlage, P.E.
 Date: 05/22/2020 Reg. No. 45914

Project Title RENOVATE BUILDING 28 FIRST FLOOR EAST RTP		Project Number 656-19-306	
Location SAINT CLOUD, MN		Building Number 28	
Phase CONSTRUCTION DOCUMENTS		Drawing Number ELD101	
Drawing Title BASEMENT LIGHTING DEMOLITION PLAN		Issue Date MAY 22, 2020	Checked CB
		Drawn BZ	

VA

U.S. Department of Veterans Affairs

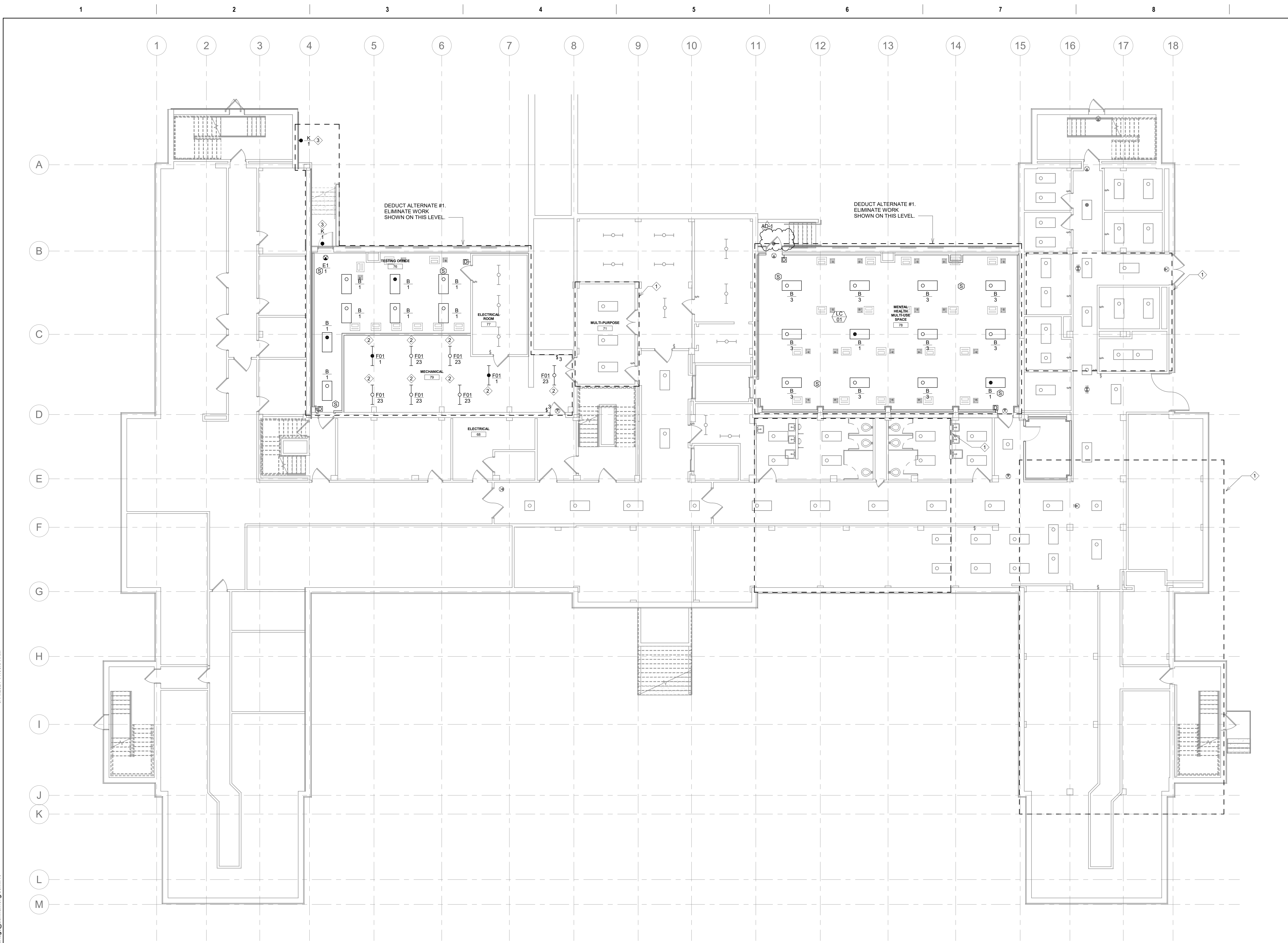
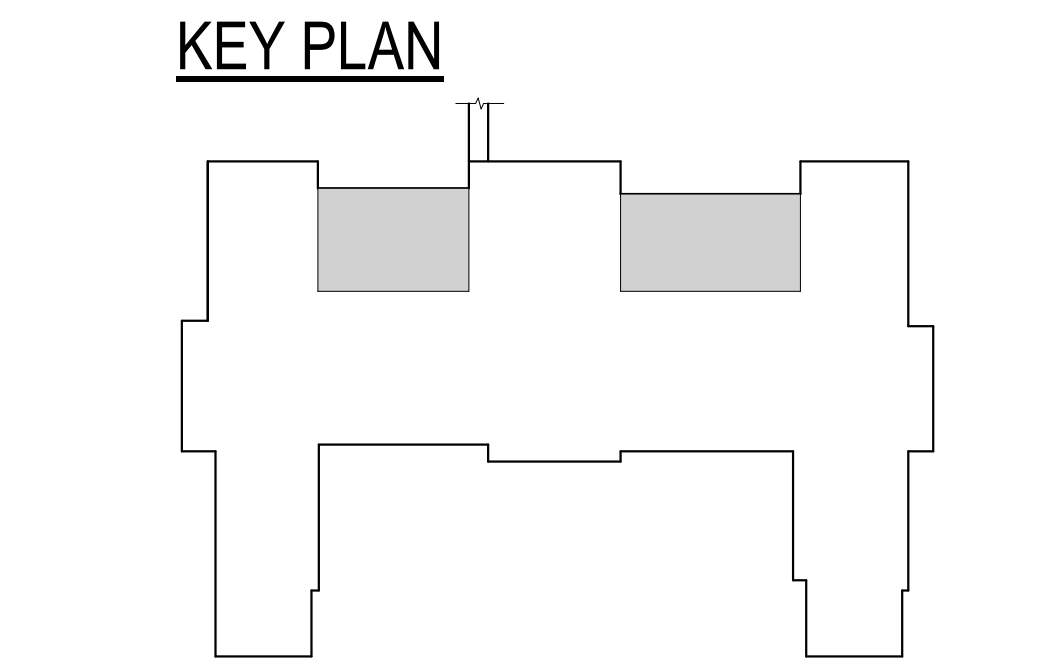
Veterans Health Administration
 St. Cloud VA Health Care System

GENERAL NOTES:

- A. BUILDING WILL BE IN USE DURING CONSTRUCTION. SCHEDULE AND CARRY OUT THE WORK IN SUCH A MANNER AS TO CAUSE THE OWNER A MINIMUM OF INCONVENIENCE DUE TO SERVICE INTERRUPTION. TEMPORARY SERVICES (FEEDER, BRANCH CIRCUIT, AND SIGNAL SYSTEMS) SHALL BE INSTALLED IF ONE AREA OR PHASE OF CONSTRUCTION DISRUPTS SERVICE TO ANOTHER AREA OF THE BUILDING(S) OR IF THE EQUIPMENT, CONDUITS, OR FEEDERS HAVE TO BE RELOCATED TO ALLOW CONSTRUCTION TO PROGRESS. SERVICE INTERRUPTIONS SHALL BE CONFINED TO THE SMALLEST AREA POSSIBLE AT ANY ONE TIME AND INTERRUPTIONS SHALL BE SCHEDULED WITH THE OWNER'S SITE REPRESENTATIVE. THERE SHALL BE DESIGNATED AREAS WHERE INTERRUPTIONS LIMITED TO AND SHALL BE CONDUCTED AFTER HOURS (8:00 PM - 6:00 AM) MONDAY THROUGH SATURDAY. AFTER SERVICE HAS BEEN RESTORED FOLLOWING AN INTERRUPTION, INSPECT AREAS AFFECTED BY THE INTERRUPTION AND BE RESPONSIBLE FOR RETURNING AUTOMATICALLY CONTROLLED EQUIPMENT TO THE SAME OPERATING CONDITION WHICH EXISTED PRIOR TO THE INTERRUPTION.
- B. SIGNIFICANT NOISE PRODUCING WORK SHALL BE CONDUCTED AFTER HOURS (8:00 PM - 6:00 AM) AND WEEKENDS.
- C. DO NOT REUSE EXISTING WIRING. PROVIDE NEW HOME RUNS UNLESS NOTED OTHERWISE. PROVIDE DEDICATED NEUTRALS AS REQUIRED BY THE NEC. HANDLE TIES OR MULTI POLE BREAKERS FOR SINGLE PHASE LOADS ARE UNACCEPTABLE.
- D. COORDINATE LOCATION AND INSTALLATION OF CEILING MOUNTED EQUIPMENT WITH THE VA PRIOR TO ROUGH-IN.
- E. INSTALL MINIMUM #10 AWG FOR ALL 120V CIRCUIT HOMERUNS IN EXCESS OF 75'.
- F. ROUTE CONDUITS IN A MANNER TO CONCEAL WHERE POSSIBLE.
- G. WHERE LIGHTING CONTROL DEVICES (OCCUPANCY / VACANCY SENSORS, RELAY MODULES, ETC) ARE SHOWN ON PLANS, LOCATE DEVICES IN EACH SPACE PER DEVICE TYPE AND MANUFACTURER RECOMMENDATIONS. INSTALL ALL RELAYS AND/OR POWER PACKS IN NEMA 1 ENCLOSURES TO ACHIEVE PLENUM RATINGS.
- H. LIFE SAFETY LIGHTING SHALL BE UNSWITCHED UNLESS NOTED OTHERWISE.

KEY NOTES:

- ① CEILING TO BE REMOVED AND REINSTALLED FOR MECHANICAL WORK. REMOVE AND REINSTALL LIGHT FIXTURES AS REQUIRED.
- ② LIGHT FIXTURE 8'-0" AFF.
- ③ LIGHT FIXTURE 7'-6" AFF.



1 BASEMENT LIGHTING FLOOR PLAN
1/8" = 1'-0"

Revision#	Description	Date
1	Addendum 1	06/15/2021

CONSULTANT
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 Anderson Engineering of Minnesota, LLC | Proj # Project Number

STAMP
 I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
 Name: Curtis D. Barlage, P.E.
 Date: 05/22/2020 Reg. No. 45914

Project Title
 RENOVATE BUILDING 28
 FIRST FLOOR EAST RTFP
Location
 SAINT CLOUD, MN
Phase
 CONSTRUCTION DOCUMENTS
Drawing Title
 BASEMENT LIGHTING FLOOR PLAN
Issue Date
 MAY 22, 2020
Checked
 CB
Drawn
 BZ

Project Number
 656-19-306
Building Number
 28
Drawing Number
 EL101

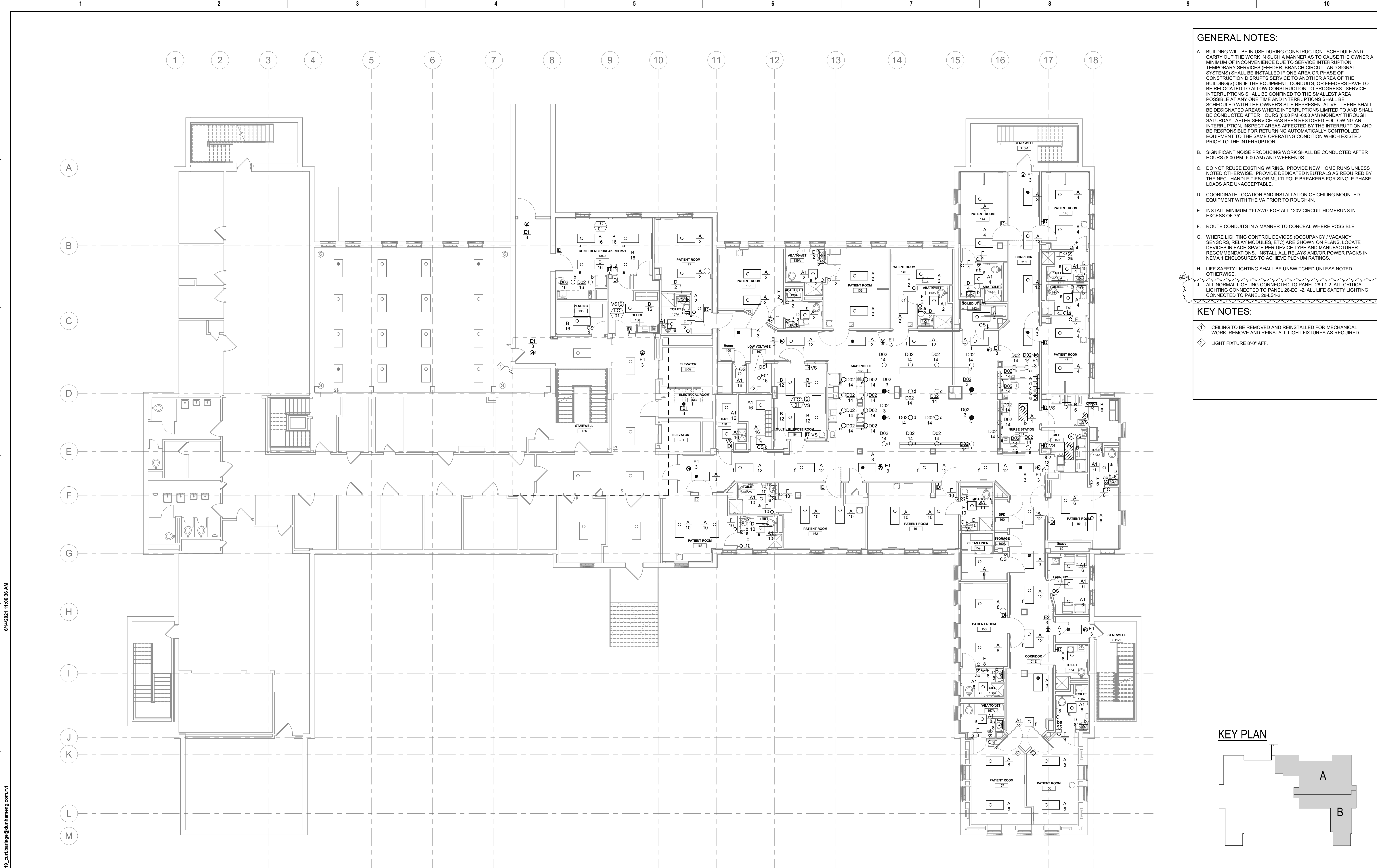
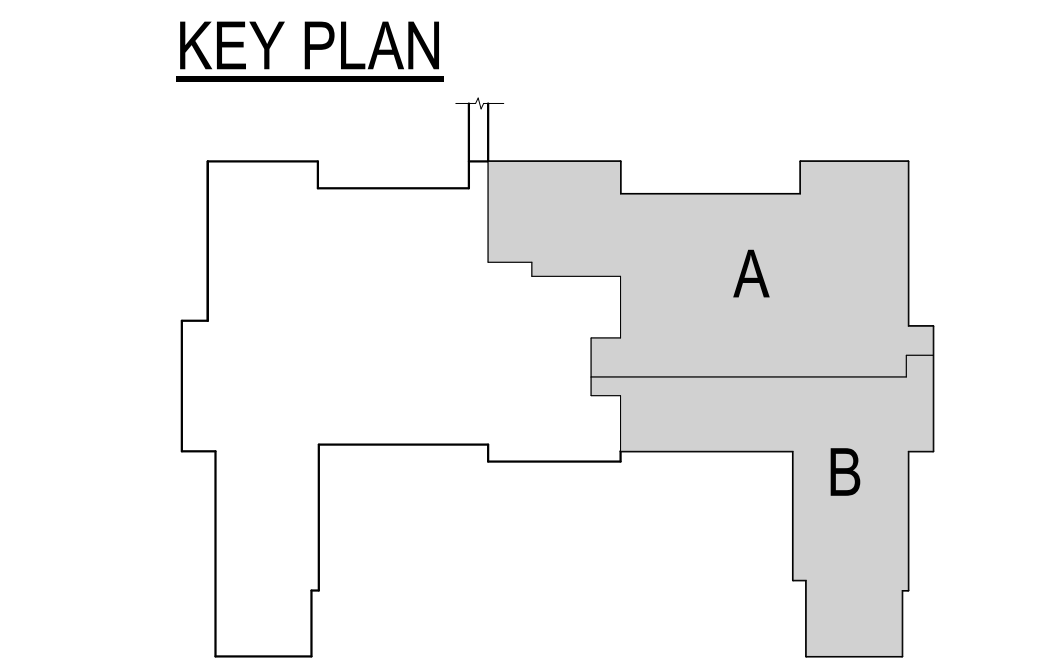
U.S. Department of Veterans Affairs
 Veterans Health Administration
 St. Cloud VA Health Care System

GENERAL NOTES:

- A. BUILDING WILL BE IN USE DURING CONSTRUCTION. SCHEDULE AND CARRY OUT THE WORK IN SUCH A MANNER AS TO CAUSE THE OWNER A MINIMUM OF INCONVENIENCE DUE TO SERVICE INTERRUPTION. TEMPORARY SERVICES (FEEDER, BRANCH CIRCUIT, AND SIGNAL SYSTEMS) SHALL BE INSTALLED IF ONE AREA OR PHASE OF CONSTRUCTION DISRUPTS SERVICE TO ANOTHER AREA OF THE BUILDING(S) OR IF THE EQUIPMENT, CONDUITS, OR FEEDERS HAVE TO BE RELOCATED TO ALLOW CONSTRUCTION TO PROGRESS. SERVICE INTERRUPTIONS SHALL BE CONFINED TO THE SMALLEST AREA POSSIBLE AT ANY ONE TIME AND INTERRUPTIONS SHALL BE SCHEDULED WITH THE OWNER'S SITE REPRESENTATIVE. THERE SHALL BE DESIGNATED AREAS WHERE INTERRUPTIONS LIMITED TO AND SHALL BE CONDUCTED AFTER HOURS (8:00 PM - 6:00 AM) MONDAY THROUGH SATURDAY. AFTER SERVICE HAS BEEN RESTORED FOLLOWING AN INTERRUPTION, INSPECT AREAS AFFECTED BY THE INTERRUPTION AND BE RESPONSIBLE FOR RETURNING AUTOMATICALLY CONTROLLED EQUIPMENT TO THE SAME OPERATING CONDITION WHICH EXISTED PRIOR TO THE INTERRUPTION.
- B. SIGNIFICANT NOISE PRODUCING WORK SHALL BE CONDUCTED AFTER HOURS (8:00 PM - 6:00 AM) AND WEEKENDS.
- C. DO NOT REUSE EXISTING WIRING. PROVIDE NEW HOME RUNS UNLESS NOTED OTHERWISE. PROVIDE DEDICATED NEUTRALS AS REQUIRED BY THE NEC. HANDLE TIES OR MULTI-POLE BREAKERS FOR SINGLE PHASE LOADS ARE UNACCEPTABLE.
- D. COORDINATE LOCATION AND INSTALLATION OF CEILING MOUNTED EQUIPMENT WITH THE VA PRIOR TO ROUGH-IN.
- E. INSTALL MINIMUM #10 AWG FOR ALL 120V CIRCUIT HOMERUNS IN EXCESS OF 75'.
- F. ROUTE CONDUITS IN A MANNER TO CONCEAL WHERE POSSIBLE.
- G. WHERE LIGHTING CONTROL DEVICES (OCCUPANCY / VACANCY SENSORS, RELAY MODULES, ETC) ARE SHOWN ON PLANS, LOCATE DEVICES IN EACH SPACE PER DEVICE TYPE AND MANUFACTURER RECOMMENDATIONS. INSTALL ALL RELAYS AND/OR POWER PACKS IN NEMA 1 ENCLOSURES TO ACHIEVE PLENUM RATINGS.
- H. LIFE SAFETY LIGHTING SHALL BE UNSWITCHED UNLESS NOTED OTHERWISE.
- J. ALL NORMAL LIGHTING CONNECTED TO PANEL 28-1-1. ALL CRITICAL LIGHTING CONNECTED TO PANEL 28-EC-1.2. ALL LIFE SAFETY LIGHTING CONNECTED TO PANEL 28-LS-1.2.

KEY NOTES:

- ⬠ CEILING TO BE REMOVED AND REINSTALLED FOR MECHANICAL WORK. REMOVE AND REINSTALL LIGHT FIXTURES AS REQUIRED.
- ⬠ LIGHT FIXTURE 6'-0" AFF.



1 FIRST LIGHTING FLOOR PLAN
1/8" = 1'-0"

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Date: 05/22/2020 Reg. No. 45914

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FIRST FLOOR EAST RTTP
Location
SAINT CLOUD, MN
Phase
CONSTRUCTION DOCUMENTS
Drawing Title
FIRST LIGHTING FLOOR PLAN
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656-19-306
Building Number
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Drawing Number
EL111

VA U.S. Department of Veterans Affairs
Veterans Health Administration
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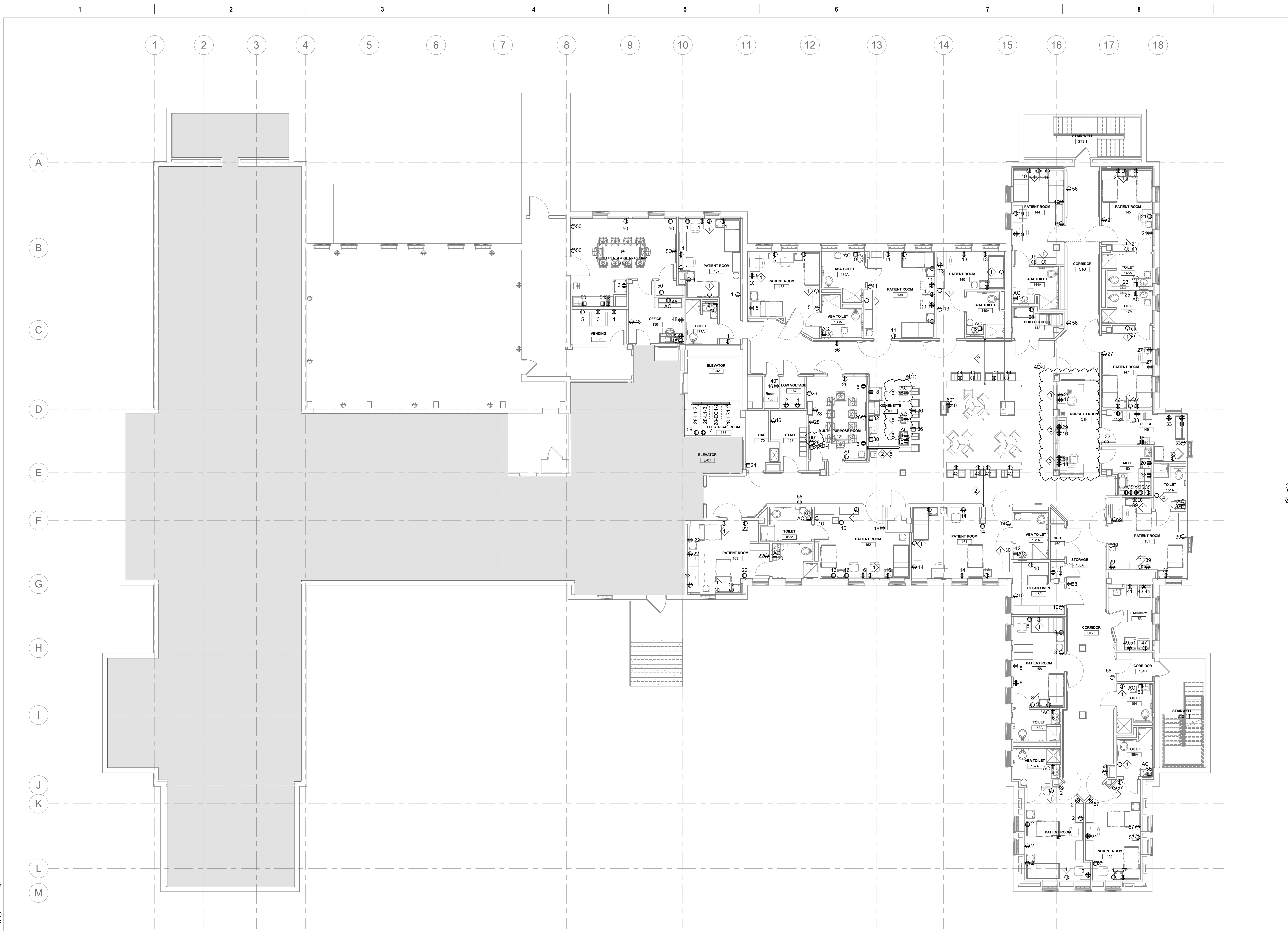
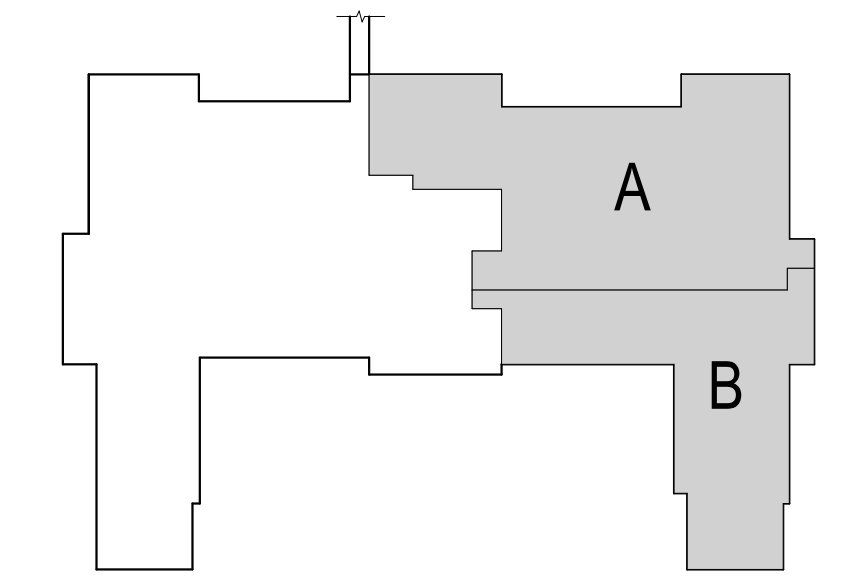
GENERAL NOTES:

- A. BUILDING WILL BE IN USE DURING CONSTRUCTION. SCHEDULE AND CARRY OUT THE WORK IN SUCH A MANNER AS TO CAUSE THE OWNER A MINIMUM OF INCONVENIENCE DUE TO SERVICE INTERRUPTION. TEMPORARY SERVICES (FEEDER, BRANCH CIRCUIT, AND SIGNAL SYSTEMS) SHALL BE INSTALLED IF ONE AREA OR PHASE OF CONSTRUCTION DISRUPTS SERVICE TO ANOTHER AREA OF THE BUILDING(S) OR IF THE EQUIPMENT, CONDUITS, OR FEEDERS HAVE TO BE RELOCATED TO ALLOW CONSTRUCTION TO PROGRESS. SERVICE INTERRUPTIONS SHALL BE CONFINED TO THE SMALLEST AREA POSSIBLE AT ANY ONE TIME AND INTERRUPTIONS SHALL BE SCHEDULED WITH THE OWNER'S SITE REPRESENTATIVE. THERE SHALL BE DESIGNATED AREAS WHERE INTERRUPTIONS LIMITED TO AND SHALL BE CONDUCTED AFTER HOURS (8:00 PM - 6:00 AM) MONDAY THROUGH SATURDAY. AFTER SERVICE HAS BEEN RESTORED FOLLOWING AN INTERRUPTION, INSPECT AREAS AFFECTED BY THE INTERRUPTION AND BE RESPONSIBLE FOR RETURNING AUTOMATICALLY CONTROLLED EQUIPMENT TO THE SAME OPERATING CONDITION WHICH EXISTED PRIOR TO THE INTERRUPTION.
- B. SIGNIFICANT NOISE PRODUCING WORK SHALL BE CONDUCTED AFTER HOURS (8:00 PM - 6:00 AM) AND WEEKENDS.
- C. DO NOT REUSE EXISTING WIRING. PROVIDE NEW HOME RUNS UNLESS NOTED OTHERWISE. PROVIDE DEDICATED NEUTRALS AS REQUIRED BY THE NEC. HANDLE TIES OR MULTI POLE BREAKERS FOR SINGLE PHASE LOADS ARE UNACCEPTABLE.
- D. COORDINATE LOCATION AND INSTALLATION OF CEILING MOUNTED EQUIPMENT WITH THE VA PRIOR TO ROUGH-IN.
- E. INSTALL MINIMUM #10 AWG FOR ALL 120V CIRCUIT HOMERUNS IN EXCESS OF 75'.
- F. ROUTE CONDUITS IN A MANNER TO CONCEAL WHERE POSSIBLE.
- G. DEVICES SHOWN BACK-TO-BACK ARE FOR INTENT PURPOSES ONLY. DO NOT INSTALL BACK-TO-BACK TO PREVENT NOISE TRAVEL. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- H. ALL FURNITURE LAYOUTS ARE SHOWN FOR DESIGN INTENT ONLY. FINAL LOCATIONS OF FURNITURE AND ASSOCIATED POWER/DATA OUTLETS TO BE COORDINATED WITH OWNER.
- I. REFER TO MECHANICAL ELECTRICAL (ME) SCHEDULES FOR ELECTRICAL CONNECTION REQUIREMENTS TO MECHANICAL EQUIPMENT.
- J. COORDINATE RECEPTACLE DEVICES NEXT TO COMMUNICATION DEVICES, SUCH THAT THE DEVICES ARE MOUNTED NEXT TO EACH OTHER.
- K. UNLESS NOTED OTHERWISE, NORMAL POWER-FED DEVICES AND EQUIPMENT ARE CIRCUITED TO PANEL 28-L1-3. CRITICAL POWER-FED DEVICES AND EQUIPMENT ARE CIRCUITED TO PANEL 28-EC1-2.

KEY NOTES:

- 1 PROVIDE DOUBLE GANG DEEP JUNCTION BOX WITH SINGLE GANG MUDRING, BLANK COVER PLATE AND A 3/4" CONDUIT STUB TO CABLE TRAY FOR FUTURE USE.
- 2 PROVIDE CONDUIT(S) UNDER FLOOR BELOW TO DEVICES IN ISLANDS.
- 3 MOUNT DEVICES TO OWNER PROVIDED FURNITURE.
- 4 PROVIDE CONNECTION FOR EBR-01 WALL HEATER.
- 5 PROVIDE SEPERATE CONDUIT FOR CRITICAL POWER.
- 6 MOUNT DEVICE HORIZONTAL.

KEY PLAN



1 FIRST POWER FLOOR PLAN
1/8" = 1'-0"

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FIRST POWER FLOOR PLAN

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Building Number
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VA

U.S. Department of Veterans Affairs

Veterans Health Administration
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LIGHTING CONTROL SEQUENCE SCHEDULE

LIGHTING CONTROL SEQUENCE SYMBOL FOUND ON LIGHTING PLANS(S)										
LIGHTING CONTROL SEQUENCE	VACANCY SENSOR	OCCUPANCY SENSOR	AUTO OFF TIME (MINUTES)	LIGHT SWITCHING % (MIN 50%)	DIMMING TYPE	DIMMING LEVEL	MANUAL ON/OFF	NOTES		
LC 01	YES	NO	15	50	0-10V	1%	AUTO/NO			

GENERAL NOTES:
 A. PROVIDE ALL PARTS AND PIECES NECESSARY TO MAKE A FUNCTIONAL LIGHTING CONTROL SYSTEM WITH ALL CONTROLS AS MARKED ABOVE.
 B. SUPPLIER TO PROVIDE COMPLETE WIRING DIAGRAM PRIOR TO INSTALLATION.
 C. IF DIMMING IS CALLED FOR IN SCHEDULE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND PROVIDE ALL NECESSARY PARTS, BALLASTS, DRIVERS, ETC. TO PROVIDE THE DIMMING FUNCTION.
 D. CONTRACTOR TO PROVIDE ALL WIRING NECESSARY INCLUDING ANY 0-10V CONTROL WIRING AS REQUIRED.
 E. CONTRACTOR MUST COMPLY WITH THE CONTROLS INTENT AS INDICATED ON THE DRAWINGS.
 F. AT MINIMUM, CONTRACTOR SHALL HOLD TWO PRE CONSTRUCTION MEETINGS PRIOR TO BID, WITH THEIR SELECTED LIGHTING CONTROLS VENDOR OR SUPPLIER.
 G. THE INTENT OF (F) PRE CONSTRUCTION MEETINGS IS TO DEVELOP AN UNDERSTANDING OF THE CONTROLS SYSTEM TO ACCURATELY ACCOUNT FOR ALL POWER, CONTROLS, CABLING, EQUIPMENT AND CONNECTION REQUIREMENTS.
 H. CONTRACTOR SHALL PROVIDE ALL NECESSARY COMPONENTS, ACCESSORIES AND ASSOCIATED LABOR FOR THEIR SELECTED LIGHTING CONTROLS SYSTEM.

ELECTRICAL NOTES:

LIGHT FIXTURE SCHEDULE

FIXTURE LETTER	FIXTURE STYLE	VOLTAGE	MOUNTING	LAMPS		BALLAST/ DRIVER	FIXTURE MAX VA	CONTROL MEDIA (LENS, LENS, ETC.)	MANUFACTURER'S SERIES NUMBER	FIXTURE DESCRIPTION	NOTES
				TYPE	COLOR						
A	2X4 LED VOLUMETRIC TROFFER	120	RECESSED GYP-BOARD AND/OR LAY-IN GRID INVERTED TEE	LED 4800 LUM MIN	4000K	DIMMING TO 10% (0-10V)	38.4 VA	0.125" MINIMUM ACRYLIC LINEAR PRISMATIC LENS	LITHONIA ZVTL4 SERIES METZLUX #ST 24C22 COLUMBIA LCAT HE WILLIAMS PT SERIES	ONE-PIECE COLD-ROLLED STEEL COATED POLYESTER, PAINTED AFTER FABRICATION WITH EMBOSSED FACETS. IMPACT-MODIFIED, SINGLE CLEAR DIFFUSER	
A1	2X2 LED LENSED TROFFER	120	RECESSED GYP-BOARD AND/OR LAY-IN GRID INVERTED TEE	LED 3000 LUM MIN	4000K	DIMMING 0-10V	26.3 VA	0.125" MINIMUM ACRYLIC LINEAR PRISMATIC LENS	LITHONIA ZVTL2 SERIES METALUX #ST 22C22 COLUMBIA LCAT HE WILLIAMS PT SERIES	ONE-PIECE COLD-ROLLED STEEL COATED POLYESTER, PAINTED AFTER FABRICATION WITH EMBOSSED FACETS. IMPACT-MODIFIED, SINGLE CLEAR DIFFUSER	
B	2X4 LED VOLUMETRIC TROFFER	120	RECESSED GYP-BOARD AND/OR LAY-IN GRID INVERTED TEE	LED 7200 LUM MIN	4000K	DIMMING TO 1% (0-10V)	59 VA	0.125" MINIMUM ACRYLIC LINEAR PRISMATIC LENS	LITHONIA ZVTL4 SERIES METALUX #ST 24C22 COLUMBIA LCAT HE WILLIAMS PT SERIES	ONE-PIECE COLD-ROLLED STEEL COATED POLYESTER, PAINTED AFTER FABRICATION WITH EMBOSSED FACETS. IMPACT-MODIFIED, SINGLE CLEAR DIFFUSER	
D	2" LINEAR FLUSH MOUNT	120	SURFACE	LED 2200 LUM MIN	4000K		25 VA	EXTRUDED ACRYLIC DIFFUSER	LITHONIA FMCLCCL SERIES METALUX CWPLD APX PIERCE HE WILLIAMS SFL SERIES	UV STABILIZED IMPACT-RESISTANT POLYCARBONATE DIFFUSER. FLANKED BY DECORATIVE BRUSHED NICKEL STEEL END CAPS	
D02	6" ROUND DIAMETER DIMMABLE DOWNLIGHT	120	RECESSED GYP-BOARD AND/OR LAY-IN GRID INVERTED TEE	LED 1700 LUM MIN	4000K	DIMMING 0-10V	19.7 VA	OPEN CLEAR SELF FLANGED MEDIUM DISTRIBUTION	GOTHAM LIGHTING EVO SERIES PORTFOLIO #LDB6 PRESCOLITE LITESTRY INTENSE IHO, SERIES OR EQUAL	WHITE SELF FLANGED TRIM. PRE-PAINTED WHITE ALUMINUM HOUSING. PRE-WIRED J-BOX. TWO 27" HANGER BARS	
E1	LED EXIT SIGN - SINGLE FACE, AC ONLY	120	RECESSED WALL/CEILING	LED	RED	N/A	4 VA	MOLDED STENCIL LETTERS	LITHONIA LE SERIES SURE-LITES CX SERIES DUALITE SE SERIES LIGHT ALARMS XD SERIES OR EQUAL	DIE CAST, BRUSHED ALUMINUM FACE, BLACK HOUSING, RED LETTERS, FACES AND ARROWS AS SHOWN ON PLANS. AC ONLY UL924	
E2	LED EXIT SIGN - DOUBLE FACE, AC ONLY	120	RECESSED WALL/CEILING	LED	RED	N/A	5 VA	MOLDED STENCIL LETTERS	LITHONIA LE SERIES SURE-LITES CX SERIES DUALITE SE SERIES LIGHT ALARMS XD SERIES OR EQUAL	DIE CAST, BRUSHED ALUMINUM FACE, BLACK HOUSING, RED LETTERS, FACES AND ARROWS AS SHOWN ON PLANS. AC ONLY UL924	
F	PATIENT ROOM LED NIGHT LIGHT	120	SURFACE	LED 39 LUM MIN	4000K		1.2 VA	VANITY LIGHT	HEALTHCARE-LIGHTING # PATHFINDER HNL610 SERIES OR EQUAL	DIE CAST ALUMINUM HOUSING. POWDERCOAT FINISH (BRONZE). WET LOCATION WITH INTEGRAL PHOTOCCELL	
F01	4' INDUSTRIAL	120	SURFACE/ CHAIN HUNG	LED 1800 LUM MIN	4000K	DIMMING 0-10V	14 VA	SEMI FROSTED ACRYLIC LENS	EATON-METALUX SNILED SERIES COLUMBIA LCL SERIES LITHONIA CLX SERIES H.E. WILLIAMS T55 SERIES	STEEL CHANNEL, WHITE POWDER COAT	
K	SURFACE MOUNT LED WALL PACK	120	SURFACE MOUNTED	LED 2508 LUM MIN	5000K	NA	18 VA	LED WALL PACK EXTERIOR FIXTURE. DIE-CAST ALUMINUM HOUSING. 10 WATT HIGH OUTPUT LED LIGHT ENGINE. WET LOCATION LISTED. BRONZE FINISH. COOL WHITE TEMPERATURE. INTEGRAL PHOTOCCELL CONTROL.	RAB W/PLED 18 SERIES. PROVIDE \$300 MATERIAL ALLOWANCE.	FLAT WHITE, INTEGRATED PHOTOCCELL.	

GENERAL ELECTRICAL NOTES:
 A. REFER TO SPECIFICATION SECTIONS 265100 AND 265600 FOR LUMINAIRE REQUIREMENTS.
 B. BRING CONFLICTS BETWEEN THE MANUFACTURER'S CATALOG NUMBER AND DESCRIPTIONS TO THE ATTENTION OF THE ENGINEER.
 C. PROVIDE LAMPS AND LUMINAIRES FROM THE SAME MANUFACTURER TO ENSURE MATCHING COLOR AND APPEARANCE. LAMPS SHALL HAVE COLOR TEMPERATURE 3500K WITH MINIMUM CRI OF 80 UNLESS OTHERWISE NOTED.
 D. UNLESS A SPECIFIC CATALOG NUMBER OR SERIES IS NAMED, THE MANUFACTURER'S NAMED ALTERNATES MUST SUBMIT CATALOG CUT SHEETS AND IES FORMATTED PHOTOMETRIC REPORT TO THE ENGINEER FOR APPROVAL AT LEAST 10 DAYS PRIOR TO BID DATE. THE ENGINEER MAY REQUEST SAMPLE OF LUMINAIRE TO BE SUPPLIED.
 E. MINIMUM LUMENS LISTED FOR SOLID STATE LIGHT LUMINAIRES ARE DELIVERED LUMENS BASED ON PHOTOMETRIC TESTING COMPLETED IN ACCORDANCE WITH IES LM-79 STANDARDS.
 F. SUBSTITUTE LUMINAIRE SUBJECT TO ARCHITECT/ENGINEER APPROVAL.

SYSTEMS - VIDEO SURVEILLANCE SCHEDULE

CAMERA	ROOM NAME	ROOM #	HOUSING TYPE	MOUNTING	NOTES
FIRST FLOOR					
C 1	CORRIDOR	CE-1	DOME	CEILING	
C 2	CORRIDOR	CE-2	DOME	CEILING	
C 3	CORRIDOR	C1G	DOME	CEILING	
C 4	CORRIDOR	CE-4	DOME	CEILING	
C 5	CORRIDOR	CE-3	DOME	CEILING	
C 6	CORRIDOR	CE-3	DOME	CEILING	
C 7	CORRIDOR	C1E	DOME	CEILING	
C 8	LAUNDRY	153	DOME	CEILING	

GENERAL ELECTRICAL NOTES:
 A. UPON COMPLETION, RECALIBRATE CAMERA VIEWS WITH OWNER TO ENSURE DESIRED CONTENT IS CAPTURED.

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U.S. Department of Veterans Affairs
 Veterans Health Administration
 St. Cloud VA Health Care System

NAME: 28 MSB-1
 ENCLOSURE: NEMA 1 VOLTAGE: 120/208 EQUIPMENT OPTIONS: MAIN OCPD TYPE: MCB MAIN OCPD OPTIONS: MCB MINIMUM BUS SIZE: 2000 A
 MOUNTING: SURFACE PHASE: 3 MAIN SIZE: 2000 A
 LOCATION: ELECTRICAL ROOM 77 WIRE: 4 MAIN SETTING:

CKT	CIRCUIT DESCRIPTION	# OF POLES	OCPD FRAME SIZE	TRIP RATING	OCPD TYPE	OCPD OPTIONS	NOTES
1	28 LB-9	3	600	200			
2	28 L2-4	3	--	250	--	--	
3	28 LB-1	3	--	250	--	--	
4	28 L2-2	3	--	250	--	--	
5	28 L2-3	3	--	250	--	--	
6	28 LB-8	3	400	250			
7	SPACE	3	--	100	--	--	
8	SPACE	--	--	--	--	--	
9	28-L1-2	3	400	250			
10	28-L1-3	3	400	250			
11	CH-01	3	1000	1000			
12	28-LA-DP	3	600	600			
13	FG 28-1	3	60	50			
14	SPACE	--	--	--	--	--	
15	SPACE	--	--	--	--	--	
16	SPACE	--	--	--	--	--	
17	SPACE	--	--	--	--	--	
18	SPACE	--	--	--	--	--	
19	SPACE	--	--	--	--	--	
20	SPACE	--	--	--	--	--	

GENERAL NOTES:
 A. SEE RISER DIAGRAM FOR CALCULATED AVAILABLE FAULT CURRENT. EQUIPMENT SHALL HAVE STANDARD SHORT-CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN ON RISER DIAGRAM.

NOTES:
 1.
 2.
 3.
 4.

NAME: 28-LA-DP
 ENCLOSURE: NEMA 1 SUPPLY FROM: 28 MSB-1 VOLTAGE: 120/208 MIN. BUS RATING: 600 A
 MOUNTING: SURFACE PHASE: 3 MAIN SIZE: 600 A
 LOCATION: ELECTRICAL ROOM... WIRE: 4 MAIN OPTIONS: MCB

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1									2
3	AHU 28-1A,1B		35	3	3	35		AHU 28-3A,3B	4
5									6
7									8
9	AHU 28-1C,1D,1E,1F		50	3	3	50		AHU 28-3C,3D,3E,3F	10
11									12
13									14
15	AHU 28-2A,2B		35	3	3	35		AHU 28-4A,4B	16
17									18
19									20
21	AHU 28-2C,2D,2E,2F		50	3	3	50		AHU 28-4C,4D,4E,4F	22
23									24
25	EF-01				1	20		UH 3-01	26
27	EF-02				1	20		UN 3-02	28
29	AHU LIGHTS/RCP				1	20		UN 3-03	30
31	SPACE	--	--	--	1	20		UN 3-04	32
33	SPACE	--	--	--	1	20		UN 3-05	34
35	SPACE	--	--	--	1	20		UN 3-06	36
37	SPACE	--	--	--	--	--		SPACE	38
39	SPACE	--	--	--	--	--		SPACE	40
41	SPACE	--	--	--	--	--		SPACE	42

GENERAL NOTES:
 A. SEE RISER DIAGRAM FOR CALCULATED AVAILABLE FAULT CURRENT. PANELBOARD AND ASSOCIATED DEVICES WITHIN PANELBOARD ASSEMBLY SHALL HAVE A SHORT CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN ON RISER DIAGRAM.

NOTES:
 1.
 2.
 3.
 4.

NAME: 28-EC DP
 ENCLOSURE: NEMA 1 SUPPLY FROM: VOLTAGE: 120/208 MIN. BUS RATING: 400 A
 MOUNTING: SURFACE PHASE: 3 MAIN SIZE: 400 A
 LOCATION: ELECTRICAL 68 WIRE: 4 MAIN OPTIONS: MCB

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1									2
3	28-EC-1		200	3	2	20		SPARE	4
5					2	20		SPARE	6
7									8
9	NORTH ELEVATOR		200	3	3	100		28 CR-2	10
11									12
13	SPARE				3	100		28 CR-B	14
15	SPARE								16
17	SPARE								18
19	SPARE								20
21	SPARE								22
23	SPARE								24
25	SPARE								26
27	SPARE								28
29					3	100	1	28-EC1-2	30
31	SEWER PUMP				1	20		SPARE	32
33					1	20		SPARE	34
35	PROTECTION	--	--	--	1	20		SPARE	36
37					1	20		SPARE	38
39	SERVICE DISCONNECT				1	20		SPARE	40
41					1	20		SPARE	42

GENERAL NOTES:
 A. SEE RISER DIAGRAM FOR CALCULATED AVAILABLE FAULT CURRENT. PANELBOARD AND ASSOCIATED DEVICES WITHIN PANELBOARD ASSEMBLY SHALL HAVE A SHORT CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN ON RISER DIAGRAM.

NOTES:
 1. PROVIDE NEW SQUARE D BREAKER. EXISTING PANEL HCP I-LINE PANELBOARD.
 2.
 3.
 4.

NAME: 28-LS-1
 ENCLOSURE: NEMA 1 SUPPLY FROM: VOLTAGE: 120/208 MIN. BUS RATING: 100 A
 MOUNTING: SURFACE PHASE: 3 MAIN SIZE: 100 A
 LOCATION: Space 49 WIRE: 4 MAIN OPTIONS:

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	EXISTING		20	1	1	20		EXISTING	2
3	EXISTING		20	1	1	20		EXISTING	4
5	EXISTING		20	1	1	20		EXISTING	6
7	EXISTING		20	1	1	20		EXISTING	8
9	EXISTING		20	1	1	20		EXISTING	10
11	EXISTING		20	1	1	20		EXISTING	12
13	EXISTING		20	1	1	20		EXISTING	14
15	SPARE				1	20		EXISTING	16
17	EXISTING		20	1	1	20		EXISTING	18
19	SPARE				1	20		EXISTING	20
21	SPARE				1	20		EXISTING	22
23	SPARE				1	20		EXISTING	24
25	SPACE	--	--	--	--	--		SPACE	26
27	SPACE	--	--	--	--	--		SPACE	28
29	SPACE	--	--	--	--	--		SPACE	30
31	SPACE	--	--	--	--	--		SPACE	32
33	SPACE	--	--	--	--	--		SPACE	34
35	SPACE	--	--	--	--	--		SPACE	36
37	SPACE	--	--	--	--	--		SPACE	38
39	SPACE	--	--	--	--	--		SPACE	40
41	SPACE	--	--	--	--	--		SPACE	42

GENERAL NOTES:
 A. SEE RISER DIAGRAM FOR CALCULATED AVAILABLE FAULT CURRENT. PANELBOARD AND ASSOCIATED DEVICES WITHIN PANELBOARD ASSEMBLY SHALL HAVE A SHORT CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN ON RISER DIAGRAM.

NOTES:
 1.
 2.
 3.
 4.

NAME: 28-LS1-2
 ENCLOSURE: NEMA 1 SUPPLY FROM: 28-LS-1 VOLTAGE: 120/208 MIN. BUS RATING: 100 A
 MOUNTING: SURFACE PHASE: 3 MAIN SIZE: 50 A
 LOCATION: ELECTRICAL ROOM... WIRE: 4 MAIN OPTIONS: MCB

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	LIGHTS ROOMS 76, 78, 79		20	1					2
3	1ST FLR EAST LIGHTS & EXITS		20	1					4
5									6
7									8
9									10
11									12
13									14
15									16
17									18

GENERAL NOTES:
 A. SEE RISER DIAGRAM FOR CALCULATED AVAILABLE FAULT CURRENT. PANELBOARD AND ASSOCIATED DEVICES WITHIN PANELBOARD ASSEMBLY SHALL HAVE A SHORT CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN ON RISER DIAGRAM.

NOTES:
 1.
 2.
 3.
 4.

Revision#	Description	Date
1	Addendum 1	06/15/2021

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 Anderson Engineering of Minnesota, LLC | Proj # Project Number

STAMP
 I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.
 Name: Curtis D. Barlage, P.E.
 Date: 05/22/2020 Reg. No. 45914

Project Title
 RENOVATE BUILDING 28
 FIRST FLOOR EAST RTTP
Location
 SAINT CLOUD, MN
Phase
 CONSTRUCTION DOCUMENTS
Drawing Title
 ELECTRICAL SCHEDULES
Issue Date
 MAY 22, 2020
Checked
Drawn

Project Number
 656-19-306
Building Number
 28
Drawing Number
 EE603

VA
U.S. Department of Veterans Affairs
 Veterans Health Administration
 St. Cloud VA Health Care System