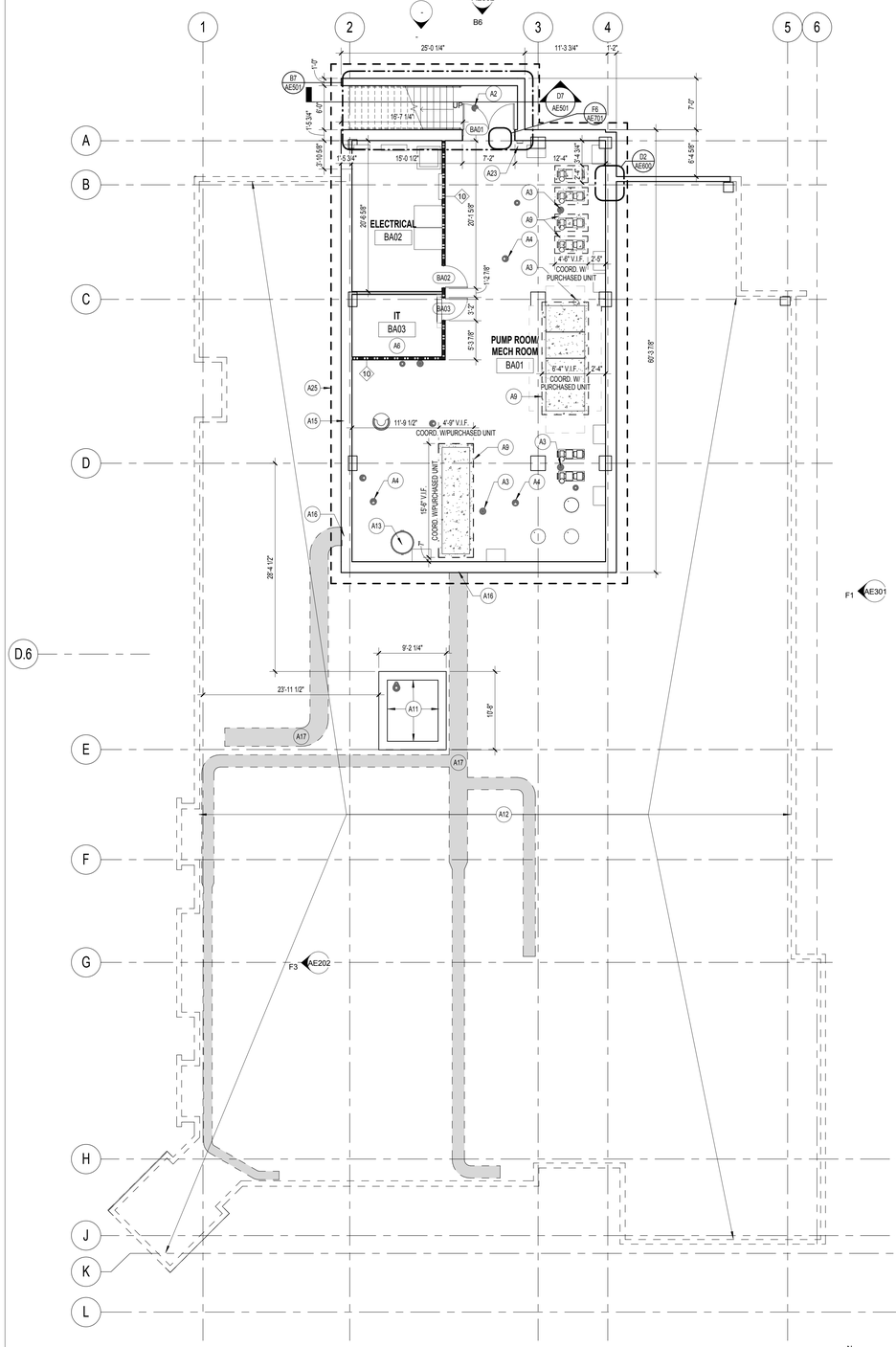
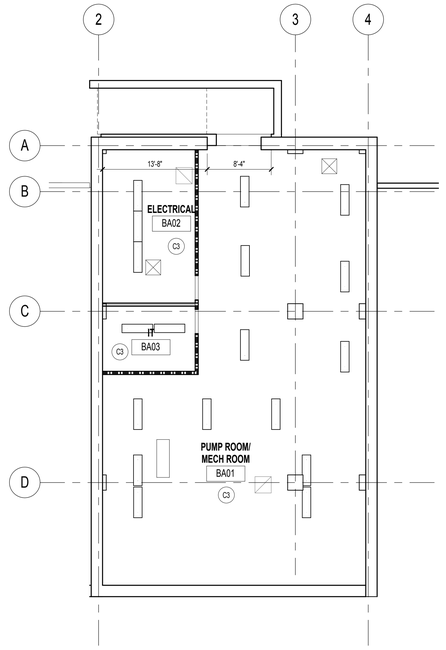
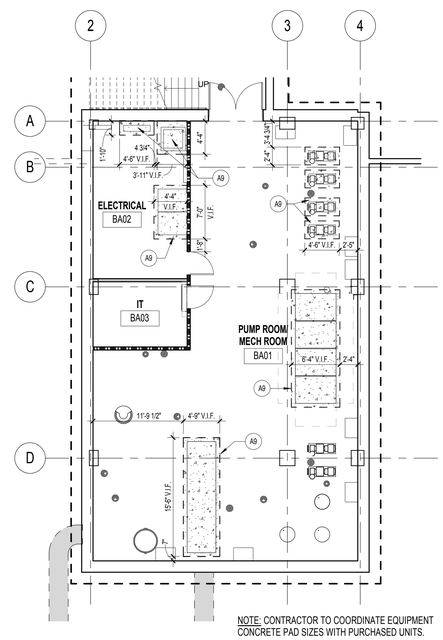


F1 BASEMENT ARCHITECTURAL, EQUIPMENT, AND DIMENSION PLAN
1/8" = 1'-0"



C4 BASEMENT FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



NOTE: CONTRACTOR TO COORDINATE EQUIPMENT CONCRETE PAD SIZES WITH PURCHASED UNITS.

F4 PARTIAL BASEMENT PLAN - CONCRETE PAD LOCATIONS
1/8" = 1'-0"

PARTITION PLAN INDICATIONS

- EXISTING PARTITION TO BE REMOVED
- TYPICAL NON RATED PARTITION
- TYPICAL NON RATED SMOKE PARTITION
- TYPICAL ONE HOUR RATED PARTITION

PARTITION PRIORITY LEGEND

TWO HOUR FIRE RATED PARTITION TWO HOUR FIRE SHAFT WALL	PRIORITY 1 (HIGHEST PRIORITY)
ONE HOUR FIRE RATED PARTITION ONE HOUR FIRE SHAFT WALL	PRIORITY 2
NON-RATED SMOKE PARTITION	PRIORITY 3
NON-RATED PARTITION	PRIORITY 4 (LOWEST PRIORITY)

PARTITION TYPES GENERAL NOTES

1. ALL FIRE RATED PARTITIONS MUST BE INSTALLED PER THEIR UL DESIGN NUMBERS.

2. INSTALL SOUND ATTENUATION BLANKET IN ALL PARTITIONS THAT FORM ANY PART OF THE ENCLOSURE OF THE FOLLOWING ROOMS: TOILET ROOMS, OFFICES AND MECHANICAL ROOMS. THESE PARTITIONS SHALL HAVE 3 1/2" FIBERGLASS BATT SOUND ATTENUATION BLANKETS AND MEET MINIMUM SOUND TRANSMISSION RATING OF STC 45. USE ACOUSTICAL SEALANT AROUND THE ENTIRE PERIMETER ON NON-RATED PARTITIONS.

3. REPLACE 5/8" GYPSUM WALLBOARD WITH 5/8" DENS-SHIELD IN ALL AREAS TO RECEIVE CERAMIC TILE. SKIM COAT ENTIRE SURFACE NOT COVER BY TILE.

4. REPLACE 5/8" GYPSUM WALLBOARD WITH 5/8" MOISTURE AND MOLD-RESISTANT GYPSUM WALL BOARD ON ALL PLUMBING WALL OTHER THAN THOSE COVERED IN NOTE # 4 ABOVE.

5. FOR HEIGHTS UP TO AND INCLUDING 14'-0" TYPICAL INTERIOR METAL STUDS ARE 20 GA. AT 16" O.C.; FOR HEIGHTS ABOVE 14'-0", USE 18 GA AT 16" O.C.; USE DOUBLE 20 GA. STUDS AT DOORS AND BORROWED LIGHT FRAMES.

6. INSTALL SUPPLEMENTARY FRAMING, BLOCKING, AND BRACING IN PARTITIONS TO SUPPORT FIXTURES, EQUIPMENT SERVICES, HEAVY TRIM, GRAB BARS, TOILET ACCESSORIES, DOOR HARDWARE, FURNISHINGS, OR SIMILAR CONSTRUCTION. COMPLY WITH DETAILS INDICATED AND WITH RECOMMENDATIONS OF "GYPSUM CONSTRUCTION HANDBOOK".

7. EXTEND ALL WALLS TO UNDERSIDE OF STRUCTURE ABOVE. PROVIDE SLIP TRACK AT TOP OR ANOTHER APPROVED METHOD TO ALLOW FOR A 1" DEFLECTION OF THE STRUCTURE.

8. ALL PARTITIONS SHALL BE TYPE 5 UNLESS OTHERWISE NOTED.

9. ALL COLUMN COVERS SHALL BE TYPE 1A UNLESS OTHERWISE NOTED.

ARCHITECTURAL KEYNOTES

A1 OFFICES WITHIN ROOM 2A08 TO BE CONSTRUCTED OF MOVABLE WALLS, UNDER SEPARATE CONTRACT. OFFICES WILL CONSIST OF A VARIETY OF SOLID AND GLASS WALLS WITH SLIDING DOORS. LAYOUT SHOWN IS FOR REFERENCE, FINAL LAYOUT AND WALL CONSTRUCTION TO BE SELECTED BY AND COORDINATED WITH OWNER.

A2 AREA DRAIN; SEE PLUMBING DRAWINGS.

A3 FUNNEL DRAIN; SEE PLUMBING DRAWINGS.

A4 FLOOR DRAIN; SEE PLUMBING DRAWINGS.

A5 SOLID PHENOLIC CEILING-MOUNTED TOILET PARTITION.

A6 FURNISH AND INSTALL 4'-0" HIGH, 3/4" FIRE-TREATED PLYWOOD MOUNTED ON 2x2 FIRE-TREATED WOOD STRIPS ON THE INSIDE OF EACH I.T. ROOM. PLYWOOD TO START @ 3'-0" A.F.F.

A7 PROVIDE DUTY STATION; SEE ELECTRICAL DRAWINGS.

A8 ROOM SCHEDULING BOARD UNDER SEPARATE CONTRACT. PROVIDE POWER AND DATA.

A9 PROVIDE HOUSEKEEPING PAD, 3000 PSI CONCRETE TO BE INSTALLED PER ACI STANDARDS. REFER TO MEP DRAWINGS FOR REQUIRED THICKNES. PAD SIZE TO BE 6" LARGER IN ALL DIRECTIONS. COORDINATE SIZE WITH PURCHASED EQUIPMENT.

A10 DEPRESSED SLAB; SEE STRUCTURAL DRAWINGS.

A11 ELEVATOR PIT; SEE F4/AE503 FOR SUMP PUMP INFORMATION

A12 EXTENT OF FLOOR ABOVE.

A13 SUMP PIT; SEE PLUMBING DRAWINGS.

A14 RECEPTION DESK TO BE PROVIDED BY OWNER.

A15 WALL PENETRATION FOR GEOTHERMAL WELL FIELD; SEE MECHANICAL DRAWINGS.

A16 WALL PENETRATION FOR UNDERGROUND PIPING; SEE MECHANICAL DRAWINGS.

A17 UNDERGROUND PIPING/DUCTWORK; SEE MECHANICAL DRAWINGS.

A18 OPENING ABOVE.

A19 CONCRETE SIDEWALK; SEE CIVIL DRAWINGS.

A20 RECESSED WALKOFF MAT; SEE FINISH DRAWINGS.

A21 CLEANOUT ACCESS PANEL DOOR.

A22 RECESSED FIRE EXTINGUISHER CABINET; SEE DETAIL E9/AE612.

A23 SURFACE-MOUNTED FIRE EXTINGUISHER CABINET.

A24 2-1/2" SLEEVED PIPE THROUGH WALL; SEE WALL SECTION C5/AE405.

A25 PERIMETER FOUNDATION DRAIN; SEE PLUMBING AND CIVIL DRAWINGS. SEE ALSO DETAILS ON DRAWING A600.

A26 CONCRETE PAD; SEE CIVIL DRAWINGS.

A27 CONCRETE PAD; SEE STRUCTURAL DRAWINGS.

REFLECTED CEILING PLAN KEYNOTES

C1 CEMENTITIOUS BOARD TRIM.

C2 SOFFIT VENT.

C3 EXPOSED CEILING.

C4 CEILING FAN.

C5 PENDANT LUMINAIRE; SEE ELECTRICAL DRAWINGS.

C6 CONTROL JOINT.

C7 LINE INDICATES EXTENT OF ROOF DORMER.

C8 LINE OF 1" EXPANSION CAULK JOINT.

C9 INSTALL NEW CAP TO END OF EXISTING GUTTER.

C10 MOTORIZED ROLLER SHADE & ENCLOSURE.

REFLECTED CEILING GENERAL NOTES

1. CONTRACTOR TO INSTALL CEILING IN ALL ROOMS AS SHOWN IN THE REFLECTED CEILING PLAN AND AS INDICATED IN THE FINISH SCHEDULE TO RECEIVE NEW CEILINGS. FOLLOW CEILING SYMBOL LEGEND FOR CEILING LAYOUT.

2. THE CONTRACTOR MUST SUBMIT TO ARCHITECT COORDINATED REFLECTED CEILING PLAN FOR REVIEW AND APPROVAL INCORPORATING LIGHT FIXTURES, SPRINKLER HEADS AND MECHANICAL LAYOUTS.

3. REFER TO HVAC DRAWINGS FOR LOCATION OF SUPPLY DIFFUSERS, RETURN GRILLS.

4. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF LIGHT FIXTURES AND CEILING MOUNTED SMOKE DETECTORS, SPEAKERS, FIRE ALARM DEVICES, NURSE CALL DOME LIGHTS, ETC.

5. SPRINKLER HEADS ARE NOT INDICATED ON THE REFLECTED CEILING PLANS. SPRINKLER HEADS TO ALIGN WITH EACH OTHER IN BOTH NORTH/SOUTH AND EAST/WEST DIRECTIONS WHERE THEY OCCUR IN A SINGLE SPACE. SIMILARLY FOR OTHER CEILING DEVICES. THE CONTRACTOR SHALL INSTALL SUFFICIENT SPRINKLER HEADS IN ALL SPACES TO PROVIDE (100%) COVERAGE AS DEFINED IN NFPA 13. REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS OF THE SPRINKLER HEADS.

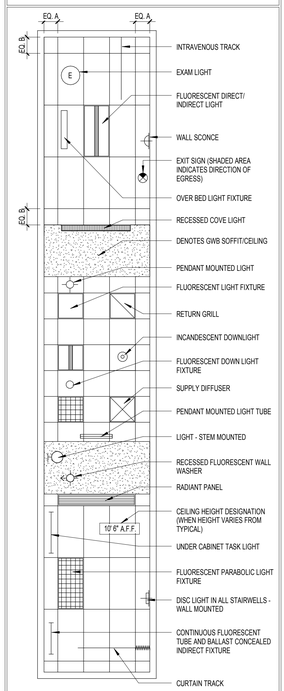
6. THE CONTRACTOR SHALL VERIFY THAT ACCESS PANELS OF APPROPRIATE SIZE AND TYPE ARE INSTALLED IN GYPSUM BOARD CEILINGS OR SOFFITS AND OTHER NON ACCESSIBLE TYPE CEILINGS OR SOFFITS WHERE ACCESS, SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING OR ELECTRICAL ITEMS MAY BE NEEDED. ACCESS PANELS SHALL BE OF FIRE RATED TYPE EQUAL TO THE RATING OF THE CEILING OR SOFFIT IN WHICH THEY OCCUR.

7. THE CONTRACTOR SHALL PROVIDE ACCESS PANELS IN GYPSUM BOARD CEILINGS AND IN HARD SURFACE SOFFITS SO THAT THE ARCHITECT, THE STATE AND LOCAL OFFICIALS CAN INSPECT RATED WALLS. THESE ACCESS PANELS SHALL BE LOCATED AS NECESSARY TO VIEW ALL SURFACES OF THE RATED WALL(S).

8. ALL CEILING HEIGHTS TO BE 9'-0" U.N.O. ALL GWB SOFFIT HEIGHTS TO BE 8'-0" U.N.O.

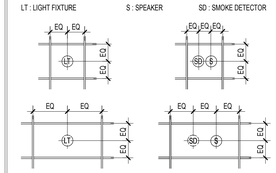
9. WHERE SUPPORT WIRES FOR ACOUSTICAL CEILING GRID CANNOT BE INSTALLED VERTICALLY, THE CONTRACTOR SHALL PROVIDE A UNISTRUT BENEATH THE OBSTRUCTION AS TO PERMIT WIRES TO BE VERTICALLY ATTACHED TO THE UNISTRUT.

CEILING SYMBOL LEGEND



CEILING CONTRACTOR TO MEASURE EACH CEILING AREA AND ESTABLISH A CEILING LAYOUT TO BALANCE BORDER WIDTHS AT OPPOSITE EDGES OF EACH ROOM. AVOID USE OF LESS-THAN 6" TILES.

FIXTURE MOUNTING MATRIX



GENERAL NOTES

1. SEE SHEET AE701 FOR DOOR SCHEDULE.

2. SEE SHEET AE702 FOR WINDOW SCHEDULE.

3. SEE SHEET AE201 FOR EQUIPMENT SCHEDULE.

4. SEE SHEET AE621 FOR TOILET ACCESSORIES SCHEDULE.

5. SEE SHEET AE612 FOR COLD-FORMED FRAMING NOTES.

ARCHITECTURAL FLOOR PLAN GENERAL NOTES

1. DO NOT SCALE DRAWINGS. DIMENSIONS IN LARGE SCALE PLANS, ELEVATIONS, AND DETAILS SHALL GOVERN OVER SMALL SCALE DETAILS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.

2. DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO CENTERLINE OF COLUMNS TO FINISH FACE OF INTERIOR PARTITION, CONCRETE OR MASONRY INTERIOR WALLS AND TO EXTERIOR FACE OF COLD-FORMED FRAMING AT EXTERIOR WALLS.

3. WHERE A ONE HOUR OR NON-RATED PARTITION IS SHOWN AS A CONTINUATION OF A TWO HOUR PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE GYPSUM BOARD SHALL BE ALIGNED. STUDS SHALL BE OFFSET AND AN ADDITIONAL LAYER OF GYPSUM BOARD SHALL BE PROVIDED TO PROVIDE FACE ALIGNMENT OF GYPSUM BOARD.

4. ALL WALL MOUNTED LAVATORIES SHALL BE MOUNTED TO ALLOW FOR 1'-3" MINIMUM BETWEEN THE CENTERLINE OF THE LAVATORY AND FACE OF ADJACENT WALL, UNLESS OTHERWISE NOTED. THERE IS AN ADDITIONAL REQUIREMENT TO PROVIDE A MINIMUM OF 4" BETWEEN SIDE OF LAVATORY AND FACE OF ADJACENT WALL, FIXED EQUIPMENT, CASEWORK, ETC.

5. ALL WATER CLOSETS SHALL BE MOUNTED SO THAT THERE IS 1'-6" BETWEEN FACE OF THE CLOSEST ADJACENT SIDE WALL OR TOILET PARTITION AND THE CENTERLINE OF THE WATER CLOSET. THE FLUSH VALVE FOR ALL WATER CLOSETS SHALL BE MOUNTED ON THE "OPEN-MOST" SIDE OF THE WATER CLOSET AT 44" MAXIMUM A.F.F. TO THE TOP.

6. DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION AND INSTALLATION OF CASEWORK. REFER TO CASEWORK NOTES FOR ADDITIONAL INFORMATION.

7. CONTRACTOR SHALL BUILD OUT PARTITIONS TO ACCOMMODATE DEPTH REQUIRED BY FIRE EXTINGUISHER CABINETS AND RECESSED POWER PANELS. COORDINATE WITH ENGINEERING DRAWINGS. FINAL LOCATIONS OF ALL CABINETS AND PANELS TO BE APPROVED BY ARCHITECT.

8. PROVIDE METAL STUD FRAMING AROUND ALL PENETRATIONS THRU METAL STUD PARTITIONS.

9. THE FLOOR SLAB SHALL BE SLOPED (2%) TO DRAIN. DO NOT INTERRUPT INTEGRITY OF FIRE RATING OF RAISED FLOOR SLAB.

ARCHITECTURAL GENERAL NOTES

1. PROJECT MANUAL, DRAWINGS AND ADDITIONAL OWNER PROVIDED INFORMATION DESCRIBE THE EXTENT OF THE WORK. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE COMPLIMENTARY. ANY WORK EXHIBITED IN EITHER OF THEM WHETHER IN THE OTHER OR NOT, IS TO BE EXECUTED AS PART OF THE WORK. WHERE ITEMS OF MATERIAL, EQUIPMENT AND LABOR ARE REFERRED TO IN THE SINGULAR, SUCH ITEM OR ITEMS SHALL BE PROVIDED IN THE NUMBER NECESSARY FOR THE PROPER COMPLETION OF THE WORK. THE DRAWINGS ARE A GRAPHIC REPRESENTATION OF THE SCOPE, LOCATION AND ARRANGEMENT OF MATERIALS AND EQUIPMENT SHOWING THE EXECUTION OF THE WORK. THE INTENT OF THE SPECIFICATIONS IS TO OUTLINE OR INDICATE THE ITEMS OF WORK, OR OTHER, WHICH CANNOT READILY BE SHOWN ON THE DRAWINGS, AND FURTHER TO INDICATE THE TYPES AND QUALITIES OF MATERIALS AND WORKMANSHIP. SHOULD THE SPECIFICATIONS AND DRAWINGS DISAGREE IN THEMSELVES, OR WITH EACH OTHER, WRITTEN CLARIFICATIONS SHOULD BE REQUESTED OF THE ARCHITECT BY THE CONTRACTOR.

2. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED TO COMPLETE THE WORK. ALL THE WORK SHALL BE INSTALLED WITH QUALITY WORKMANSHIP IN ACCORDANCE WITH INDUSTRY STANDARDS AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

3. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE CODE AND ALL APPLICABLE COUNTY, CITY, STATE, FEDERAL LAWS AND REGULATIONS. NO WORK SHALL BE INSTALLED IN VIOLATION OF ANY CODES; ANY WORK SHOWN ON THE DRAWINGS WHICH IS IN VIOLATION OF SUCH CODES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.

4. ANY UTILITY SHUT-OFFS REQUIRED BY CONTRACTORS FOR THE COMPLETION OF THEIR WORK SUCH AS ELECTRICAL, GAS, WATER, SEWER, STEAM, SPRINKLER, ETC., MUST BE INDICATED ON THE PROJECT SCHEDULED, REVIEWED AT THE PROJECT MEETING AND COORDINATED WITH THE OWNER PRIOR TO COMMENCEMENT OF THE WORK.

5. THE CONTRACTOR SHALL PROVIDE CHASES TO CONCEAL MECHANICAL, PLUMBING, AND ELECTRICAL WORK. PIPING LOCATED INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN STAIRWAYS, EQUIPMENT ROOMS, AND MECHANICAL ROOMS. THE CONTRACTOR SHALL COORDINATE WITH THE OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISHED AREAS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ARCHITECT PRIOR TO LOCATING AND/OR PROVIDING "FURRED SPACES" NOT INDICATED ON THE DRAWINGS.

7. EACH CONTRACTOR IS RESPONSIBILITY TO COORDINATE THE SEQUENCE OF THEIR WORK WITH THAT OF ALL OTHER TRADES ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT, AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.

8. EACH CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS FOR THE PROPER STORAGE OF BUILDING MATERIALS ON THE SITE TO AVOID OVERLOADING THE FLOOR OR IMPEDING WITH COMPLETION OF THE WORK. MATERIALS ARE TO BE PROPERLY DISPERSED OVER BEAMS BETWEEN COLUMNS.

9. WHERE NEW WORK CONNECTS WITH EXISTING, THE CONTRACTOR SHALL DO ALL NECESSARY CUTTING, FITTING, AND PATCHING. CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR AND MATERIALS TO EXECUTE WORK.

10. ALL MATERIALS AND METHODS OF INSTALLATION SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.

EQUIPMENT GENERAL NOTES

1. CONTRACTOR TO SEE THE EQUIPMENT MANUAL AND / OR EQUIPMENT SCHEDULE FOR SCOPE OF WORK AND RESPONSIBILITY IN THE PURCHASING, PLACEMENT AND INSTALLATION OF EQUIPMENT.

2. CONTRACTOR MUST PROVIDE ALL MPE ROUGH-INS FOR ALL EQUIPMENT AS INDICATED ON THE DRAWINGS AND / OR EQUIPMENT MANUAL , WHETHER PROVIDED BY OWNER, OWNER VENDOR, OR GC / CM.

3. CONTRACTOR MUST PROVIDE IN-WALL BLOCKING FOR ALL WALL MOUNTED EQUIPMENT, WHETHER PROVIDED BY OWNER, OWNER VENDOR, OR GC / CM.

4. CONTRACTOR TO SEE VENDOR EQUIPMENT DRAWINGS FOR RESPONSIBILITY AND SCOPE OF WORK IN THE INSTALLATION OF VENDOR EQUIPMENT. ALL WORK REFERRED TO IN THE VENDOR EQUIPMENT DRAWINGS AS BY OWNER / CUSTOMER, CONTRACTOR OR BY OTHERS IS IN THE SCOPE OF WORK OF THE GC / CM

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer: Dewberry — 600 Parsippany Road, Suite 301, Parsippany, NJ 07054-3715, Tel (973) 739-9400, Fax (973) 730-9710

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MEP Engineer: H.E. LENZ COMPANY — 1407 Scalp Avenue, Johnstown, PA 15904, Tel (814) 269-9300, Fax (814) 269-9301

Environmental Consultant: SSM — 1047 North Park Road, P.O. Box 6307, Reading, PA 19610, Tel (610) 621-2000

Cost Estimator: International Consultants, Inc. — 221 Chestnut Street, Suite 200, Philadelphia, PA 19106, Tel (215) 923-8888

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Project Number	Scale
3468	As indicated

Drawing Title: BASEMENT ARCHITECTURAL, EQUIPMENT, DIMENSION PLAN AND REFLECTED CEILING PLAN

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	JP	NH

VA Project Number: 595-109

Building Number: 34

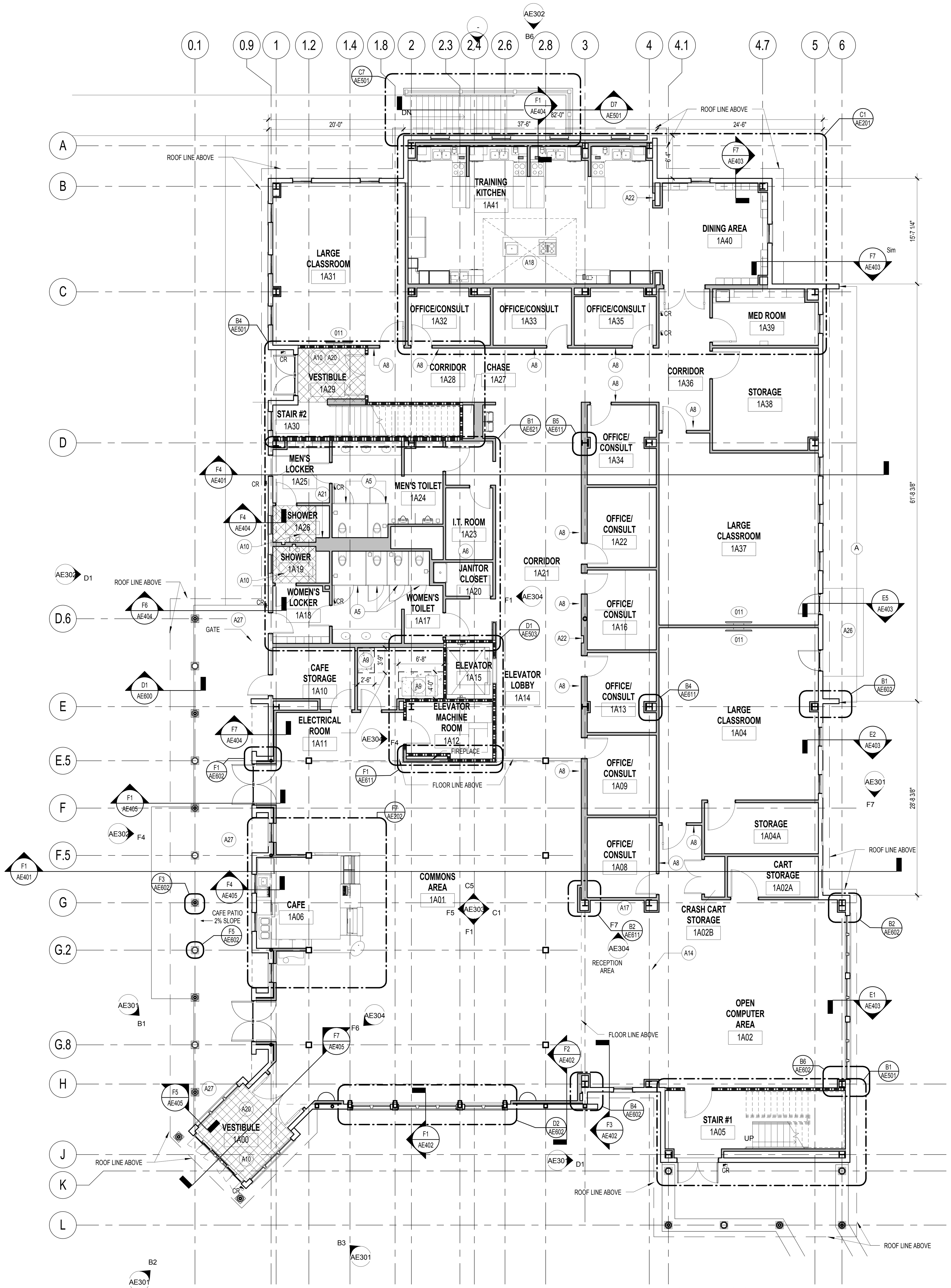
Drawing Number: AE101

Dwg. 35 of 123

Office of Facilities Management

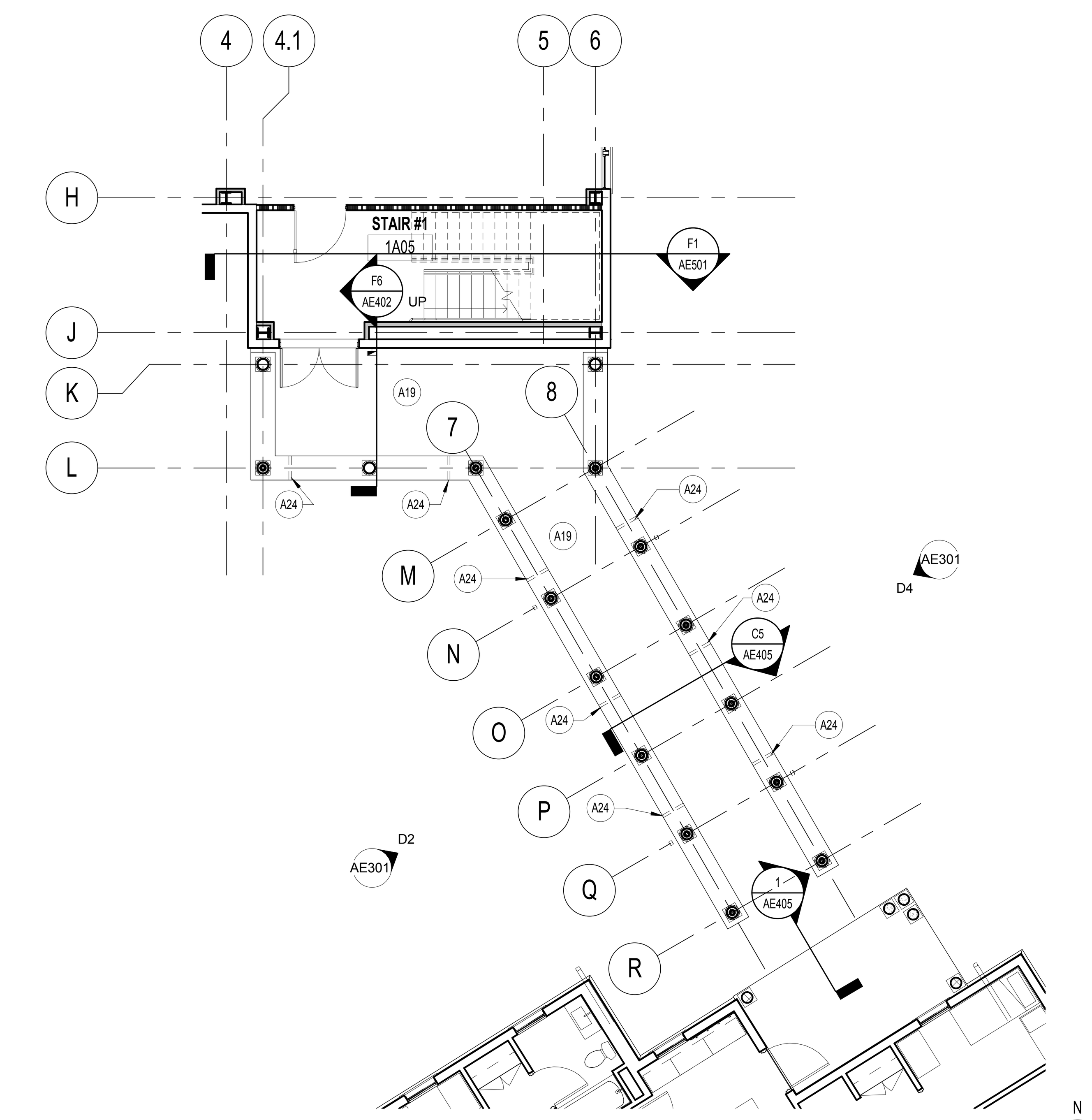
Department of Veterans Affairs

VA FORM 08-6231, OCT. 1978



NOTE: CONTRACTOR TO COORDINATE EQUIPMENT CONCRETE PAD SIZES WITH PURCHASED UNITS.

F1 FIRST FLOOR ARCHITECTURAL & EQUIPMENT PLAN
1/8" = 1'-0"



F5 PARTIAL FIRST FLOOR ARCHITECTURAL & EQUIPMENT PLAN - CONNECTOR ALTERNATE NO. 3
1/8" = 1'-0"

ARCHITECTURAL KEYNOTES

- A1 OFFICES WITHIN ROOM 2A08 TO BE CONSTRUCTED OF MOVABLE WALLS, UNDER SEPARATE CONTRACT. OFFICES WILL CONSIST OF A VARIETY OF SOLID AND GLASS WALLS WITH SLIDING DOORS. LAYOUT SHOWN IS FOR REFERENCE, FINAL LAYOUT AND WALL CONSTRUCTION TO BE SELECTED BY AND COORDINATED WITH OWNER.
- A2 AREA DRAIN; SEE PLUMBING DRAWINGS.
- A3 FUNNEL DRAIN; SEE PLUMBING DRAWINGS.
- A4 FLOOR DRAIN; SEE PLUMBING DRAWINGS.
- A5 SOLID PHENOLIC CEILING-MOUNTED TOILET PARTITION.
- A6 FURNISH AND INSTALL 4'-0" HIGH, 3/4" FIRE-TREATED PLYWOOD MOUNTED ON 2x2 FIRE-TREATED WOOD STRIPS ON THE INSIDE OF EACH I.T. ROOM. PLYWOOD TO START @ 3'-0" A.F.F.
- A7 PROVIDE DUTY STATION; SEE ELECTRICAL DRAWINGS.
- A8 ROOM SCHEDULING BOARD UNDER SEPARATE CONTRACT. PROVIDE POWER AND DATA.
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- A10 DEPRESSED SLAB; SEE STRUCTURAL DRAWINGS.
- A11 ELEVATOR PIT; SEE F4/AE503 FOR SUMP PUMP INFORMATION
- A12 EXTENT OF FLOOR ABOVE.
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- A14 RECEPTION DESK TO BE PROVIDED BY OWNER.
- A15 WALL PENETRATION FOR GEOTHERMAL WELL FIELD; SEE MECHANICAL DRAWINGS.
- A16 WALL PENETRATION FOR UNDERGROUND PIPING; SEE MECHANICAL DRAWINGS.
- A17 UNDERGROUND PIPING/DUCTWORK; SEE MECHANICAL DRAWINGS.
- A18 OPENING ABOVE.
- A19 CONCRETE SIDEWALK; SEE CIVIL DRAWINGS.
- A20 RECESSED WALKOFF MAT; SEE FINISH DRAWINGS.
- A21 CLEANOUT ACCESS PANEL DOOR.
- A22 RECESSED FIRE EXTINGUISHER CABINET; SEE DETAIL E9/AE612.
- A23 SURFACE-MOUNTED FIRE EXTINGUISHER CABINET.
- A24 2-1/2" SLEEVED PIPE THROUGH WALL; SEE WALL SECTION C5/AE405.
- A25 PERIMETER FOUNDATION DRAIN; SEE PLUMBING AND CIVIL DRAWINGS. SEE ALSO DETAILS ON DRAWING A600.
- A26 CONCRETE PAD; SEE CIVIL DRAWINGS.
- A27 CONCRETE PAD; SEE STRUCTURAL DRAWINGS.

GENERAL NOTES

1. SEE SHEET AE701 FOR DOOR SCHEDULE.
2. SEE SHEET AE702 FOR WINDOW SCHEDULE.
3. SEE SHEET AE201 FOR EQUIPMENT SCHEDULE.
4. SEE SHEET AE621 FOR TOILET ACCESSORIES SCHEDULE.
5. SEE SHEET AE612 FOR COLD-FORMED FRAMING NOTES.

ARCHITECTURAL FLOOR PLAN GENERAL NOTES

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6. DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION AND INSTALLATION OF CASEWORK. REFER TO CASEWORK NOTES FOR ADDITIONAL INFORMATION.

7. CONTRACTOR SHALL BUILD OUT PARTITIONS TO ACCOMMODATE DEPTH REQUIRED BY FIRE EXTINGUISHER CABINETS AND RECESSED POWER PANELS. COORDINATE WITH ENGINEERING DRAWINGS. FINAL LOCATIONS OF ALL CABINETS AND PANELS TO BE APPROVED BY ARCHITECT.

8. PROVIDE METAL STUD FRAMING AROUND ALL PENETRATIONS THRU METAL STUD PARTITIONS.

9. THE FLOOR SLAB SHALL BE SLOPED (2%) TO DRAIN. DO NOT INTERRUPT INTEGRITY OF FIRE RATING OF RAISED FLOOR SLAB.

ARCHITECTURAL GENERAL NOTES

1. PROJECT MANUAL, DRAWINGS AND ADDITIONAL OWNER PROVIDED INFORMATION DESCRIBE THE EXTENT OF THE WORK. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE COMPLIMENTARY. ANY WORK EXHIBITED IN EITHER OF THEM WHETHER IN THE OTHER OR NOT, IS TO BE EXECUTED AS PART OF THE WORK. WHERE ITEMS OF MATERIAL, EQUIPMENT AND LABOR ARE REFERRED TO IN THE SINGULAR, SUCH ITEM OR ITEMS SHALL BE PROVIDED IN THE NUMBER NECESSARY FOR THE PROPER COMPLETION OF THE WORK. THE DRAWINGS ARE A GRAPHIC REPRESENTATION OF THE SCOPE, LOCATION AND ARRANGEMENT OF MATERIALS AND EQUIPMENT SHOWING THE EXECUTION OF THE WORK. THE INTENT OF THE SPECIFICATIONS IS TO OUTLINE OR INDICATE THE ITEMS OF WORK, OR OTHER, WHICH CANNOT READILY BE SHOWN ON THE DRAWINGS, AND FURTHER TO INDICATE THE TYPES AND QUALITIES OF MATERIALS AND WORKMANSHIP. SHOULD THE SPECIFICATIONS AND DRAWINGS DISAGREE IN THEMSELVES, OR WITH EACH OTHER, WRITTEN CLARIFICATIONS SHOULD BE REQUESTED OF THE ARCHITECT BY THE CONTRACTOR.

2. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED TO COMPLETE THE WORK. ALL THE WORK SHALL BE INSTALLED WITH QUALITY WORKMANSHIP IN ACCORDANCE WITH INDUSTRY STANDARDS AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

3. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE CODE AND ALL APPLICABLE COUNTY, CITY, STATE, FEDERAL LAWS AND REGULATIONS. NO WORK SHALL BE INSTALLED IN VIOLATION OF ANY CODES; ANY WORK SHOWN ON THE DRAWINGS WHICH IS IN VIOLATION OF SUCH CODES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.

4. ANY UTILITY SHUT-OFFS REQUIRED BY CONTRACTORS FOR THE COMPLETION OF THEIR WORK SUCH AS ELECTRICAL, GAS, WATER, SEWER, STEAM, SPRINKLER, ETC., MUST BE INDICATED ON THE PROJECT SCHEDULED, REVIEWED AT THE PROJECT MEETING AND COORDINATED WITH THE OWNER PRIOR TO COMMENCEMENT OF THE WORK.

5. THE CONTRACTOR SHALL PROVIDE CHASES TO CONCEAL MECHANICAL, PLUMBING, AND ELECTRICAL WORK. PIPING LOCATED INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN STAIRWAYS, EQUIPMENT ROOMS, AND MECHANICAL ROOMS. THE CONTRACTOR SHALL COORDINATE WITH THE OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISHED AREAS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ARCHITECT PRIOR TO LOCATING AND/OR PROVIDING "FURRED SPACES" NOT INDICATED ON THE DRAWINGS.

7. EACH CONTRACTOR IS RESPONSIBILITY TO COORDINATE THE SEQUENCE OF THEIR WORK WITH THAT OF ALL OTHER TRADES ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT, AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.

8. EACH CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS FOR THE PROPER STORAGE OF BUILDING MATERIALS ON THE SITE TO AVOID OVERLOADING THE FLOOR OR IMPEDING WITH COMPLETION OF THE WORK. MATERIALS ARE TO BE PROPERLY DISPERSED OVER BEAMS BETWEEN COLUMNS.

9. WHERE NEW WORK CONNECTS WITH EXISTING, THE CONTRACTOR SHALL DO ALL NECESSARY CUTTING, FITTING, AND PATCHING. CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR AND MATERIALS TO EXECUTE WORK.

10. ALL MATERIALS AND METHODS OF INSTALLATION SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.

ALTERNATES

ADD ALTERNATE No. 1:
PROVIDE DEMOLITION AND ABATEMENT SERVICES ASSOCIATED WITH THE DEMOLITION OF BUILDINGS 26 AND 28 AND ASSOCIATED SITE DEMOLITION WORK AS SHOWN ON CIVIL DRAWINGS AND ABATEMENT REPORT.

ADD ALTERNATE No.2:
PROVIDE NEW PARKING, HARDSCAPE, LANDSCAPE, SITE LIGHTING AND STORM WATER RETENTION ASSOCIATED WITH THE ADDITIONAL SURFACE PARKING. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

ADD ALTERNATE No.3:
PROVIDE COVERED ROOF OVER BASE BID SIDEWALK CONNECTING NEW BEHAVIORAL HEALTH BUILDING TO RESIDENTIAL REHAB AND RECOVERY BUILDING. CONNECTING ROOF TO START FROM BASE BID ROOF OVER STAIR DOOR 1A05.

ADD ALTERNATE No.4:
PROVIDE LANDSCAPE WORK BEYOND 5'-0" FROM BUILDING AND BICYCLE RACK. SCOPE OF WORK INCLUDES TREES, SHRUBS AND PERENIALS INDICATED ON THE ALTERNATE LADSCAPE PLAN PLANT LIST. IN THE EVENT THAT ALTERNATE No. 4 IS NOT AWARDED, CONTRACTOR SHALL PROVIDE INSTALLATION OF LAWN IN GROUNDCOVER AREAS. LAWN AREAS OUTSIDE OF GROUNDCOVER AREAS ARE TO BE INCLUDED WITHIN BASE BID. SEE CIVIL DRAWING FOR ADDITIONAL INFORMATION.

ADD ALTERNATE No.5:
ADD BIORETENTION BASIN #1 - WORK INCLUDES EXCAVATION OF BASIN, INSTALLATION OF MANHOLES, HEADWALL, PIPE, RELOCATED OUTLET STRUCTURE, IMPERMEABLE LINER, UNDERDRAIN, AND BASIN LANDSCAPING.

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions | Date

CONSULTANTS:

Civil Engineer	Structural Engineer	MEP Engineer	Environmental Consultant	Cost Estimator
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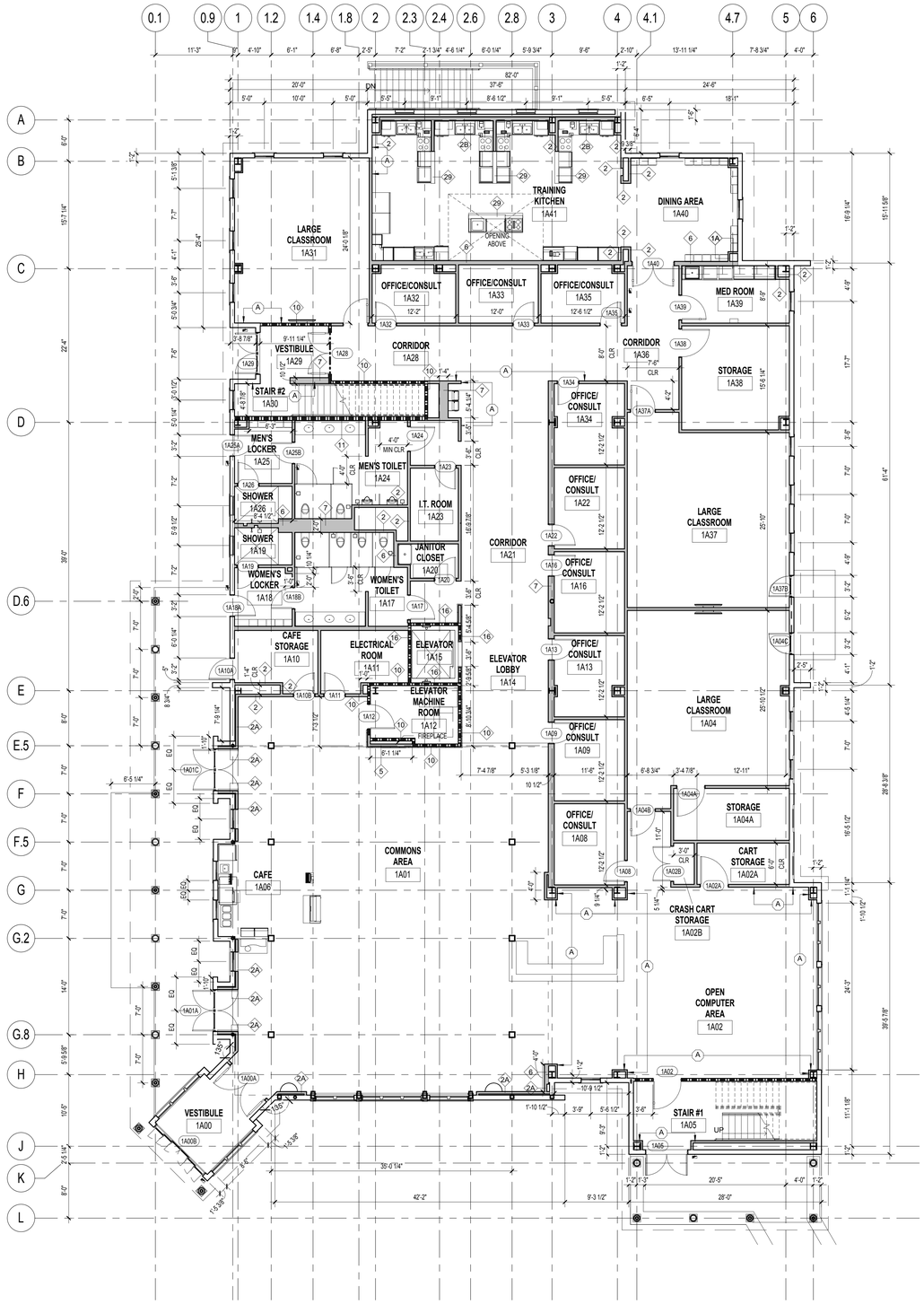
Project Number	3468
Scale	As indicated
Drawing Title	FIRST FLOOR ARCHITECTURAL & EQUIPMENT PLAN
Approved: Project Director	
Project Title	Behavioral Health Complex
Location	1700 South Lincoln Ave. Lebanon, PA 17042
Date	07/27/2012
Checked	JP
Drawn	NH
VA Project Number	595-109
Building Number	34
Drawing Number	AE111
Dwg.	36 of 123

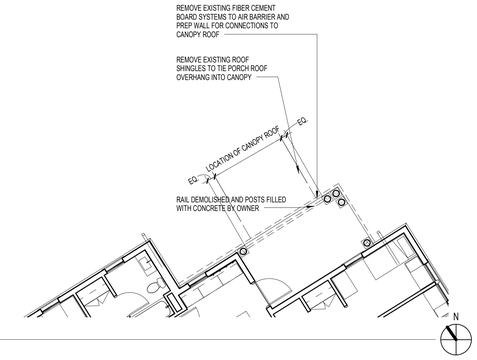
Office of Facilities Management

Department of Veterans Affairs

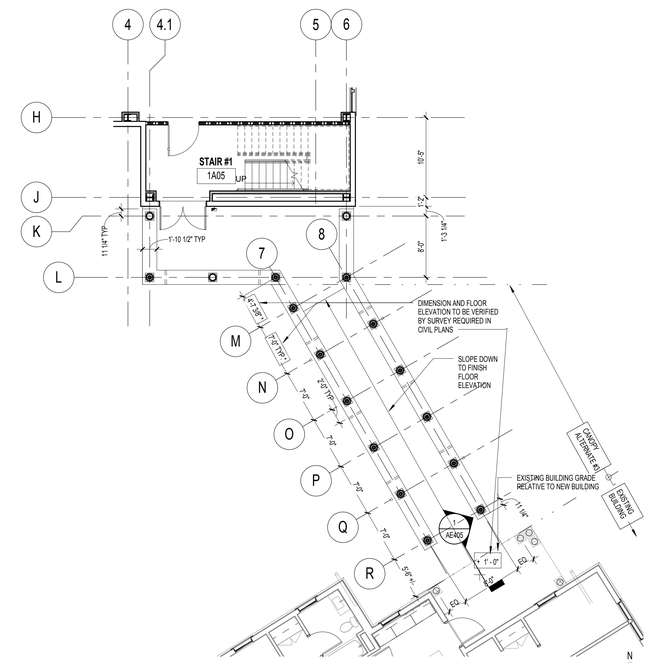
VA FORM 08-6231, OCT 1978



F1 FIRST FLOOR DIMENSION PLAN
1/8" = 1'-0"



C5 PARTIAL FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"



F5 PARTIAL FIRST FLOOR DIMENSION PLAN - CONNECTOR ALTERNATE NO. 3
1/8" = 1'-0"

PARTITION PRIORITY LEGEND

TWO HOUR FIRE RATED PARTITION TWO HOUR FIRE SHAFT WALL	PRIORITY 1 (HIGHEST PRIORITY)
ONE HOUR FIRE RATED PARTITION ONE HOUR FIRE SHAFT WALL	PRIORITY 2
NON-RATED SMOKE PARTITION	PRIORITY 3
NON-RATED PARTITION	PRIORITY 4 (LOWEST PRIORITY)

PARTITION PLAN INDICATIONS

- EXISTING PARTITION TO BE REMOVED
- TYPICAL NON RATED PARTITION
- TYPICAL NON RATED SMOKE PARTITION
- TYPICAL ONE HOUR RATED PARTITION

GENERAL NOTES

1. SEE SHEET AE701 FOR DOOR SCHEDULE.
2. SEE SHEET AE702 FOR WINDOW SCHEDULE.
3. SEE SHEET AE201 FOR EQUIPMENT SCHEDULE.
4. SEE SHEET AE621 FOR TOILET ACCESSORIES SCHEDULE.
5. SEE SHEET AE612 FOR COLD-FORMED FRAMING NOTES.

ARCHITECTURAL FLOOR PLAN GENERAL NOTES

1. DO NOT SCALE DRAWINGS. DIMENSIONS IN LARGE SCALE PLANS, ELEVATIONS, AND DETAILS SHALL GOVERN OVER SMALL SCALE DETAILS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.

2. DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO CENTERLINE OF COLUMNS TO FINISH FACE OF INTERIOR PARTITION, CONCRETE OR MASONRY INTERIOR WALLS AND TO EXTERIOR FACE OF COLD-FORMED FRAMING AT EXTERIOR WALLS.

3. WHERE A ONE HOUR OR NON-RATED PARTITION IS SHOWN AS A CONTINUATION OF A TWO HOUR PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE GYPSUM BOARD SHALL BE ALIGNED. STUDS SHALL BE OFFSET AND AN ADDITIONAL LAYER OF GYPSUM BOARD SHALL BE PROVIDED TO PROVIDE FACE ALIGNMENT OF GYPSUM BOARD.

4. ALL WALL MOUNTED LAVATORIES SHALL BE MOUNTED TO ALLOW FOR 1'-3" MINIMUM BETWEEN THE CENTERLINE OF THE LAVATORY AND FACE OF ADJACENT WALL. UNLESS OTHERWISE NOTED. THERE IS AN ADDITIONAL REQUIREMENT TO PROVIDE A MINIMUM OF 4" BETWEEN SIDE OF LAVATORY AND FACE OF ADJACENT WALL, FIXED EQUIPMENT, CASEWORK, ETC.

5. ALL WATER CLOSETS SHALL BE MOUNTED SO THAT THERE IS 1'-6" BETWEEN FACE OF THE CLOSEST ADJACENT SIDE WALL OR TOILET PARTITION AND THE CENTERLINE OF THE WATER CLOSET. THE FLUSH VALVE FOR ALL WATER CLOSETS SHALL BE MOUNTED ON THE "OPEN-MOST" SIDE OF THE WATER CLOSET AT 44" MAXIMUM A.F.F. TO THE TOP.

6. DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION AND INSTALLATION OF CASEWORK. REFER TO CASEWORK NOTES FOR ADDITIONAL INFORMATION.

7. CONTRACTOR SHALL BUILD OUT PARTITIONS TO ACCOMMODATE DEPTH REQUIRED BY FIRE EXTINGUISHER CABINETS AND RECESSED POWER PANELS. COORDINATE WITH ENGINEERING DRAWINGS. FINAL LOCATIONS OF ALL CABINETS AND PANELS TO BE APPROVED BY ARCHITECT.

8. PROVIDE METAL STUD FRAMING AROUND ALL PENETRATIONS THRU METAL STUD PARTITIONS.

9. THE FLOOR SLAB SHALL BE SLOPED (2%) TO DRAIN. DO NOT INTERRUPT INTEGRITY OF FIRE RATING OF RAISED FLOOR SLAB.

PARTITION TYPES GENERAL NOTES

1. ALL FIRE RATED PARTITIONS MUST BE INSTALLED PER THEIR UL DESIGN NUMBERS.

2. INSTALL SOUND ATTENUATION BLANKET IN ALL PARTITIONS THAT FORM ANY PART OF THE ENCLOSURE OF THE FOLLOWING ROOMS: TOILET ROOMS, OFFICES AND MECHANICAL ROOMS. THESE PARTITIONS SHALL HAVE 3-1/2" FIBERGLASS BATT SOUND ATTENUATION BLANKETS AND MEET MINIMUM SOUND TRANSMISSION RATING OF STC 45. USE ACOUSTICAL SEALANT AROUND THE ENTIRE PERIMETER ON NON-RATED PARTITIONS.

3. REPLACE 5/8" GYPSUM WALLBOARD WITH 5/8" DENS-SHIELD IN ALL AREAS TO RECEIVE CERAMIC TILE. SKIM COAT ENTIRE SURFACE NOT COVER BY TILE.

4. REPLACE 5/8" GYPSUM WALLBOARD WITH 5/8" MOISTURE AND MOLD-RESISTANT GYPSUM WALL BOARD ON ALL PLUMBING WALL OTHER THAN THOSE COVERED IN NOTE # 4 ABOVE.

5. FOR HEIGHTS UP TO AND INCLUDING 14'-0" TYPICAL INTERIOR METAL STUDS ARE 20 GA. AT 16" O.C.; FOR HEIGHTS ABOVE 14'-0", USE 18 GA AT 16" O.C.; USE DOUBLE 20 GA. STUDS AT DOORS AND BORROWED LIGHT FRAMES.

6. INSTALL SUPPLEMENTARY FRAMING, BLOCKING, AND BRACING IN PARTITIONS TO SUPPORT FIXTURES, EQUIPMENT SERVICES, HEAVY TRIM, GRAB BARS, TOILET ACCESSORIES, DOOR HARDWARE, FURNISHINGS, OR SIMILAR CONSTRUCTION. COMPLY WITH DETAILS INDICATED AND WITH RECOMMENDATIONS OF "GYPSUM CONSTRUCTION HANDBOOK".

7. EXTEND ALL WALLS TO UNDERSIDE OF STRUCTURE ABOVE. PROVIDE SLIP TRACK AT TOP OR ANOTHER APPROVED METHOD TO ALLOW FOR A 1" DEFLECTION OF THE STRUCTURE.

8. ALL PARTITIONS SHALL BE TYPE 5 UNLESS OTHERWISE NOTED.

9. ALL COLUMN COVERS SHALL BE TYPE 1A UNLESS OTHERWISE NOTED.

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer: Dewberry — 600 Parsippany Road, Suite 301, Parsippany, NJ 07054-3715, Tel (973) 739-9400, Fax (973) 730-9710

Structural Engineer: WZG — 180 W. Ridge Pike, Limerick, PA 19468, Tel (214) 329-5559

MEP Engineer: H.E. Lenz Company — 1407 Scalp Avenue, Johnstown, PA 15904, Tel (814) 269-9300, Fax (814) 269-9301

Environmental Consultant: SSM — 1047 North Park Road, P.O. Box 6307, Reading, PA 19610, Tel (610) 621-2000

Cost Estimator: International Consultants, Inc. — 221 Chestnut Street, Suite 200, Philadelphia, PA 19106, Tel (215) 923-8888

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Project Number	Scale
3468	As indicated

Drawing Title: FIRST FLOOR DIMENSION PLAN

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	EBC	NH

VA Project Number: 595-109

Building Number: 34

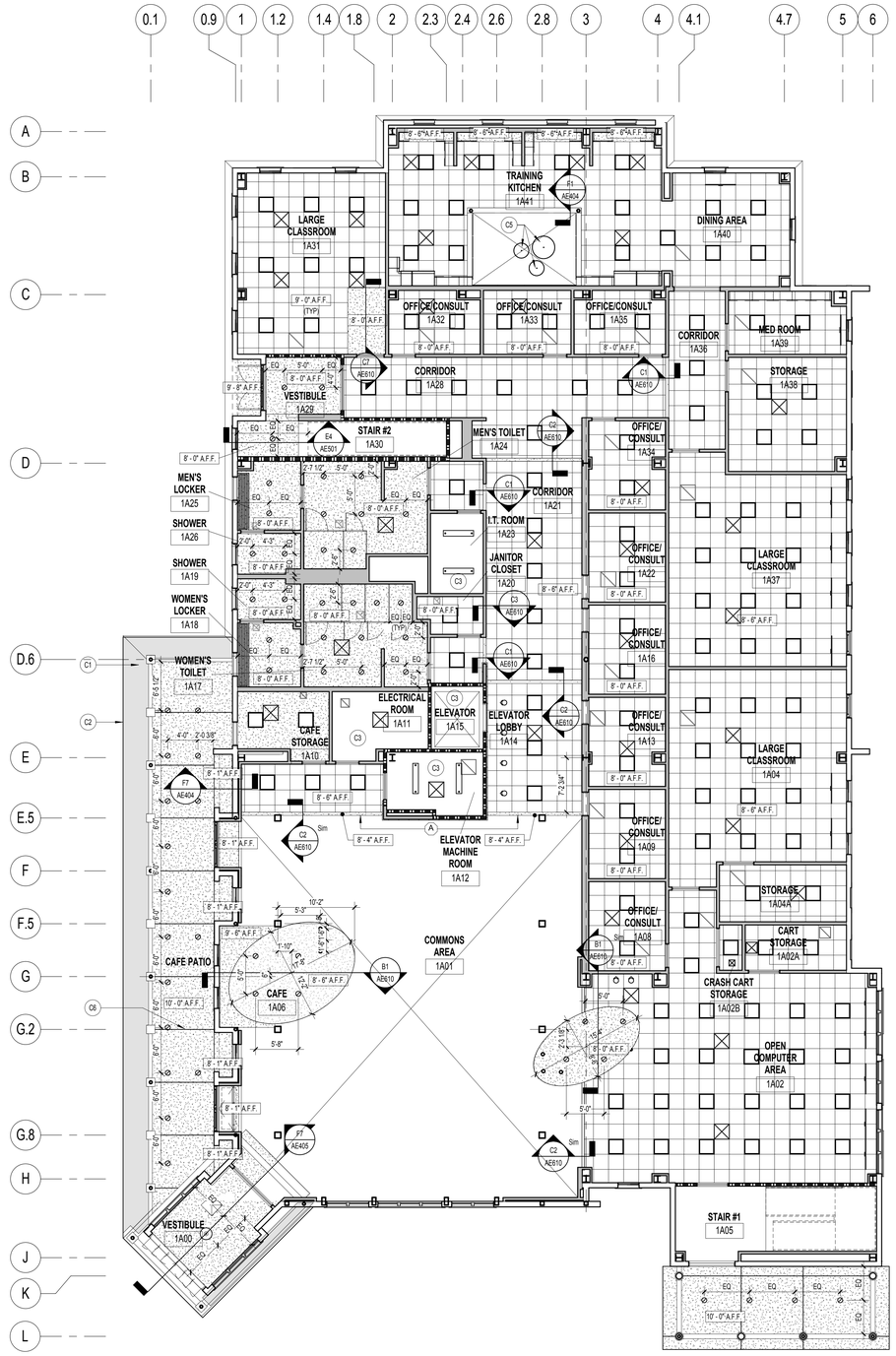
Drawing Number: AE112

Dwg. 37 of 123

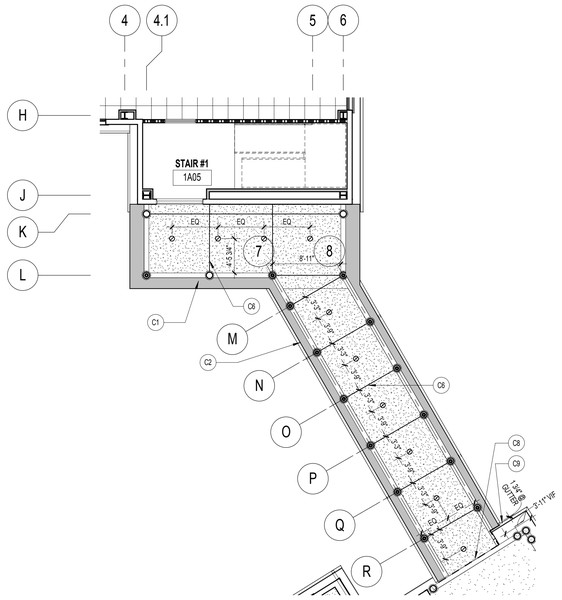
Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

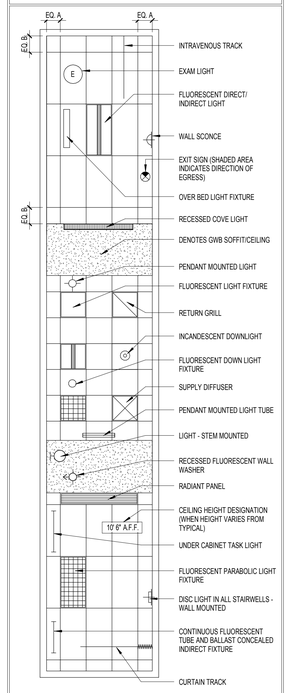


F1 FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



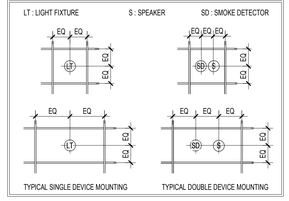
F5 PARTIAL FIRST FLOOR REFLECTED CEILING PLAN - CONNECTOR ALTERNATE NO. 3
1/8" = 1'-0"

CEILING SYMBOL LEGEND



CEILING CONTRACTOR TO MEASURE EACH CEILING AREA AND ESTABLISH A CEILING LAYOUT TO BALANCE BORDER WIDTHS AT OPPOSITE EDGES OF EACH ROOM. AVOID USE OF LESS-THAN 6" TILES.

FIXTURE MOUNTING MATRIX



REFLECTED CEILING GENERAL NOTES

1. CONTRACTOR TO INSTALL CEILING IN ALL ROOMS AS SHOWN IN THE REFLECTED CEILING PLAN AND AS INDICATED IN THE FINISH SCHEDULE TO RECEIVE NEW CEILINGS. FOLLOW CEILING SYMBOL LEGEND FOR CEILING LAYOUT.

2. THE CONTRACTOR MUST SUBMIT TO ARCHITECT COORDINATED REFLECTED CEILING PLAN FOR REVIEW AND APPROVAL INCORPORATING LIGHT FIXTURES, SPRINKLER HEADS AND MECHANICAL LAYOUTS.

3. REFER TO HVAC DRAWINGS FOR LOCATION OF SUPPLY DIFFUSERS, RETURN GRILLS.

4. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF LIGHT FIXTURES AND CEILING MOUNTED SMOKE DETECTORS, SPEAKERS, FIRE ALARM DEVICES, NURSE CALL DOME LIGHTS, ETC.

5. SPRINKLER HEADS ARE NOT INDICATED ON THE REFLECTED CEILING PLANS. SPRINKLER HEADS TO ALIGN WITH EACH OTHER IN BOTH NORTH/SOUTH AND EAST/WEST DIRECTIONS WHERE THEY OCCUR IN A SINGLE SPACE. SIMILARLY FOR OTHER CEILING DEVICES. THE CONTRACTOR SHALL INSTALL SUFFICIENT SPRINKLER HEADS IN ALL SPACES TO PROVIDE (100%) COVERAGE AS DEFINED IN NFPA 13. REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS OF THE SPRINKLER HEADS.

6. THE CONTRACTOR SHALL VERIFY THAT ACCESS PANELS OF APPROPRIATE SIZE AND TYPE ARE INSTALLED IN GYPSUM BOARD CEILINGS OR SOFFITS AND OTHER NON ACCESSIBLE TYPE CEILINGS OR SOFFITS WHERE ACCESS, SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING OR ELECTRICAL ITEMS MAY BE NEEDED. ACCESS PANELS SHALL BE OF FIRE RATED TYPE EQUAL TO THE RATING OF THE CEILING OR SOFFIT IN WHICH THEY OCCUR.

7. THE CONTRACTOR SHALL PROVIDE ACCESS PANELS IN GYPSUM BOARD CEILINGS AND IN HARD SURFACE SOFFITS SO THAT THE ARCHITECT, THE STATE AND LOCAL OFFICIALS CAN INSPECT RATED WALLS. THESE ACCESS PANELS SHALL BE LOCATED AS NECESSARY TO VIEW ALL SURFACES OF THE RATED WALL(S).

8. ALL CEILING HEIGHTS TO BE 9'-0" U.N.O. ALL GWB SOFFIT HEIGHTS TO BE 8'-0" U.N.O.

9. WHERE SUPPORT WIRES FOR ACOUSTICAL CEILING GRID CANNOT BE INSTALLED VERTICALLY, THE CONTRACTOR SHALL PROVIDE A UNISTRUT BENEATH THE OBSTRUCTION AS TO PERMIT WIRES TO BE VERTICALLY ATTACHED TO THE UNISTRUT.

REFLECTED CEILING PLAN KEYNOTES

C1	CEMENTITIOUS BOARD TRIM.
C2	SOFFIT VENT.
C3	EXPOSED CEILING.
C4	CEILING FAN.
C5	PENDANT LUMINAIRE; SEE ELECTRICAL DRAWINGS.
C6	CONTROL JOINT.
C7	LINE INDICATES EXTENT OF ROOF DORMER.
C8	LINE OF 1" EXPANSION CAULK JOINT.
C9	INSTALL NEW CAP TO END OF EXISTING GUTTER.
C10	MOTORIZED ROLLER SHADE & ENCLOSURE.

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

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Project Number	Scale
3468	As indicated

Drawing Title: FIRST FLOOR REFLECTED CEILING PLAN

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	EBC	NH

VA Project Number: 595-109

Building Number: 34

Drawing Number: AE113

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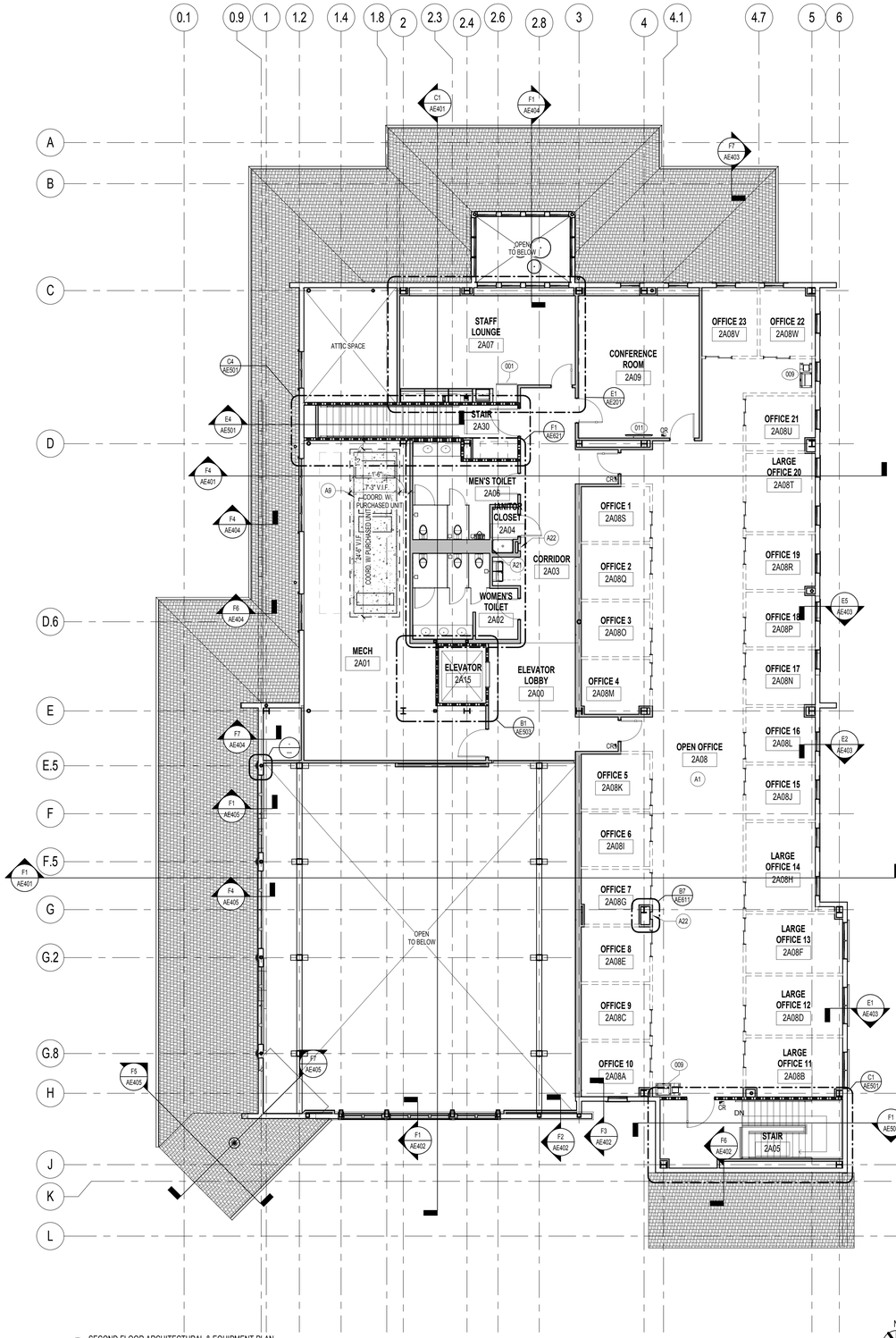
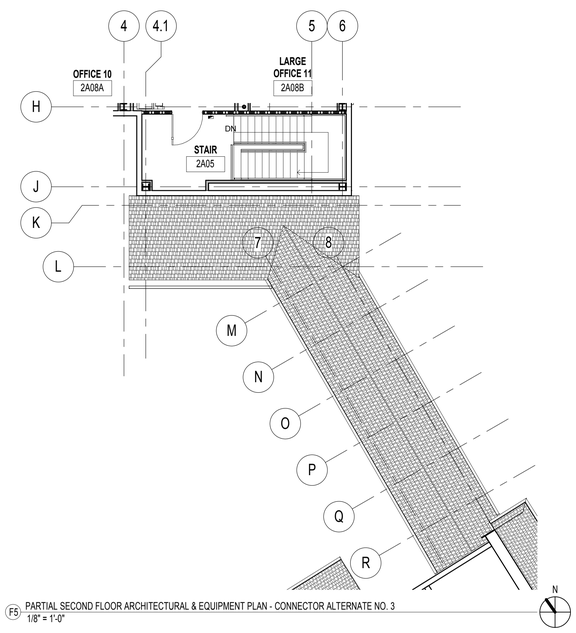
Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



F1 SECOND FLOOR ARCHITECTURAL & EQUIPMENT PLAN
1/8" = 1'-0"



F5 PARTIAL SECOND FLOOR ARCHITECTURAL & EQUIPMENT PLAN - CONNECTOR ALTERNATE NO. 3
1/8" = 1'-0"

ARCHITECTURAL KEYNOTES

- A1 OFFICES WITHIN ROOM 2A08 TO BE CONSTRUCTED OF MOVABLE WALLS, UNDER SEPARATE CONTRACT. OFFICES WILL CONSIST OF A VARIETY OF SOLID AND GLASS WALLS WITH SLIDING DOORS. LAYOUT SHOWN IS FOR REFERENCE, FINAL LAYOUT AND WALL CONSTRUCTION TO BE SELECTED BY AND COORDINATED WITH OWNER.
- A2 AREA DRAIN; SEE PLUMBING DRAWINGS.
- A3 FUNNEL DRAIN; SEE PLUMBING DRAWINGS.
- A4 FLOOR DRAIN; SEE PLUMBING DRAWINGS.
- A5 SOLID PHENOLIC CEILING-MOUNTED TOILET PARTITION.
- A6 FURNISH AND INSTALL 4'-0" HIGH, 3/4" FIRE-TREATED PLYWOOD MOUNTED ON 2x2 FIRE-TREATED WOOD STRIPS ON THE INSIDE OF EACH I.T. ROOM. PLYWOOD TO START @ 3'-0" A.F.F.
- A7 PROVIDE DUTY STATION; SEE ELECTRICAL DRAWINGS.
- A8 ROOM SCHEDULING BOARD UNDER SEPARATE CONTRACT. PROVIDE POWER AND DATA.
- A9 PROVIDE HOUSEKEEPING PAD, 3000 PSI CONCRETE TO BE INSTALLED PER ACI STANDARDS. REFER TO MEP DRAWINGS FOR REQUIRED THICKNES. PAD SIZE TO BE 6" LARGER IN ALL DIRECTIONS. COORDINATE SIZE WITH PURCHASED EQUIPMENT.
- A10 DEPRESSED SLAB; SEE STRUCTURAL DRAWINGS.
- A11 ELEVATOR PIT; SEE F4/AE503 FOR SUMP PUMP INFORMATION
- A12 EXTENT OF FLOOR ABOVE.
- A13 SUMP PIT; SEE PLUMBING DRAWINGS.
- A14 RECEPTION DESK TO BE PROVIDED BY OWNER.
- A15 WALL PENETRATION FOR GEOTHERMAL WELL FIELD; SEE MECHANICAL DRAWINGS.
- A16 WALL PENETRATION FOR UNDERGROUND PIPING; SEE MECHANICAL DRAWINGS.
- A17 UNDERGROUND PIPING/DUCTWORK; SEE MECHANICAL DRAWINGS.
- A18 OPENING ABOVE.
- A19 CONCRETE SIDEWALK; SEE CIVIL DRAWINGS.
- A20 RECESSED WALKOFF MAT; SEE FINISH DRAWINGS.
- A21 CLEANOUT ACCESS PANEL DOOR.
- A22 RECESSED FIRE EXTINGUISHER CABINET; SEE DETAIL E9/AE612.
- A23 SURFACE-MOUNTED FIRE EXTINGUISHER CABINET.
- A24 2-1/2" SLEEVED PIPE THROUGH WALL; SEE WALL SECTION C5/AE405.
- A25 PERIMETER FOUNDATION DRAIN; SEE PLUMBING AND CIVIL DRAWINGS. SEE ALSO DETAILS ON DRAWING A600.
- A26 CONCRETE PAD; SEE CIVIL DRAWINGS.
- A27 CONCRETE PAD; SEE STRUCTURAL DRAWINGS.

GENERAL NOTES

1. SEE SHEET AE701 FOR DOOR SCHEDULE.
2. SEE SHEET AE702 FOR WINDOW SCHEDULE.
3. SEE SHEET AE201 FOR EQUIPMENT SCHEDULE.
4. SEE SHEET AE621 FOR TOILET ACCESSORIES SCHEDULE.
5. SEE SHEET AE612 FOR COLD-FORMED FRAMING NOTES.

ARCHITECTURAL FLOOR PLAN GENERAL NOTES

1. DO NOT SCALE DRAWINGS. DIMENSIONS IN LARGE SCALE PLANS, ELEVATIONS, AND DETAILS SHALL GOVERN OVER SMALL SCALE DETAILS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.

2. DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO CENTERLINE OF COLUMNS TO FINISH FACE OF INTERIOR PARTITION, CONCRETE OR MASONRY INTERIOR WALLS AND TO EXTERIOR FACE OF COLD-FORMED FRAMING AT EXTERIOR WALLS.

3. WHERE A ONE HOUR OR NON-RATED PARTITION IS SHOWN AS A CONTINUATION OF A TWO HOUR PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE GYPSUM BOARD SHALL BE ALIGNED. STUDS SHALL BE OFFSET AND AN ADDITIONAL LAYER OF GYPSUM BOARD SHALL BE PROVIDED TO PROVIDE FACE ALIGNMENT OF GYPSUM BOARD.

4. ALL WALL MOUNTED LAVATORIES SHALL BE MOUNTED TO ALLOW FOR 1'-3" MINIMUM BETWEEN THE CENTERLINE OF THE LAVATORY AND FACE OF ADJACENT WALL, UNLESS OTHERWISE NOTED. THERE IS AN ADDITIONAL REQUIREMENT TO PROVIDE A MINIMUM OF 4" BETWEEN SIDE OF LAVATORY AND FACE OF ADJACENT WALL, FIXED EQUIPMENT, CASEWORK, ETC.

5. ALL WATER CLOSETS SHALL BE MOUNTED SO THAT THERE IS 1'-6" BETWEEN FACE OF THE CLOSEST ADJACENT SIDE WALL OR TOILET PARTITION AND THE CENTERLINE OF THE WATER CLOSET. THE FLUSH VALVE FOR ALL WATER CLOSETS SHALL BE MOUNTED ON THE "OPEN-MOST" SIDE OF THE WATER CLOSET AT 44" MAXIMUM A.F.F. TO THE TOP.

6. DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION AND INSTALLATION OF CASEWORK. REFER TO CASEWORK NOTES FOR ADDITIONAL INFORMATION.

7. CONTRACTOR SHALL BUILD OUT PARTITIONS TO ACCOMMODATE DEPTH REQUIRED BY FIRE EXTINGUISHER CABINETS AND RECESSED POWER PANELS. COORDINATE WITH ENGINEERING DRAWINGS. FINAL LOCATIONS OF ALL CABINETS AND PANELS TO BE APPROVED BY ARCHITECT.

8. PROVIDE METAL STUD FRAMING AROUND ALL PENETRATIONS THRU METAL STUD PARTITIONS.

9. THE FLOOR SLAB SHALL BE SLOPED (2%) TO DRAIN. DO NOT INTERRUPT INTEGRITY OF FIRE RATING OF RAISED FLOOR SLAB.

ARCHITECTURAL GENERAL NOTES

1. PROJECT MANUAL, DRAWINGS AND ADDITIONAL OWNER PROVIDED INFORMATION DESCRIBE THE EXTENT OF THE WORK. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE COMPLIMENTARY. ANY WORK EXHIBITED IN EITHER OF THEM WHETHER IN THE OTHER OR NOT, IS TO BE EXECUTED AS PART OF THE WORK. WHERE ITEMS OF MATERIAL, EQUIPMENT AND LABOR ARE REFERRED TO IN THE SINGULAR, SUCH ITEM OR ITEMS SHALL BE PROVIDED IN THE NUMBER NECESSARY FOR THE PROPER COMPLETION OF THE WORK. THE DRAWINGS ARE A GRAPHIC REPRESENTATION OF THE SCOPE, LOCATION AND ARRANGEMENT OF MATERIALS AND EQUIPMENT SHOWING THE EXECUTION OF THE WORK. THE INTENT OF THE SPECIFICATIONS IS TO OUTLINE OR INDICATE THE ITEMS OF WORK, OR OTHER, WHICH CANNOT READILY BE SHOWN ON THE DRAWINGS, AND FURTHER TO INDICATE THE TYPES AND QUALITIES OF MATERIALS AND WORKMANSHIP. SHOULD THE SPECIFICATIONS AND DRAWINGS DISAGREE IN THEMSELVES, OR WITH EACH OTHER, WRITTEN CLARIFICATIONS SHOULD BE REQUESTED OF THE ARCHITECT BY THE CONTRACTOR.

2. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED TO COMPLETE THE WORK. ALL THE WORK SHALL BE INSTALLED WITH QUALITY WORKMANSHIP IN ACCORDANCE WITH INDUSTRY STANDARDS AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

3. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE CODE AND ALL APPLICABLE COUNTY, CITY, STATE, FEDERAL LAWS AND REGULATIONS. NO WORK SHALL BE INSTALLED IN VIOLATION OF ANY CODES; ANY WORK SHOWN ON THE DRAWINGS WHICH IS IN VIOLATION OF SUCH CODES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.

4. ANY UTILITY SHUT-OFFS REQUIRED BY CONTRACTORS FOR THE COMPLETION OF THEIR WORK SUCH AS ELECTRICAL, GAS, WATER, SEWER, STEAM, SPRINKLER, ETC., MUST BE INDICATED ON THE PROJECT SCHEDULED, REVIEWED AT THE PROJECT MEETING AND COORDINATED WITH THE OWNER PRIOR TO COMMENCEMENT OF THE WORK.

5. THE CONTRACTOR SHALL PROVIDE CHASES TO CONCEAL MECHANICAL, PLUMBING, AND ELECTRICAL WORK. PIPING LOCATED INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN STAIRWAYS, EQUIPMENT ROOMS, AND MECHANICAL ROOMS. THE CONTRACTOR SHALL COORDINATE WITH THE OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISHED AREAS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ARCHITECT PRIOR TO LOCATING AND/OR PROVIDING 'FURRED SPACES' NOT INDICATED ON THE DRAWINGS.

7. EACH CONTRACTOR IS RESPONSIBILITY TO COORDINATE THE SEQUENCE OF THEIR WORK WITH THAT OF ALL OTHER TRADES ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT, AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.

8. EACH CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS FOR THE PROPER STORAGE OF BUILDING MATERIALS ON THE SITE TO AVOID OVERLOADING THE FLOOR OR IMPEDING WITH COMPLETION OF THE WORK. MATERIALS ARE TO BE PROPERLY DISPERSED OVER BEAMS BETWEEN COLUMNS.

9. WHERE NEW WORK CONNECTS WITH EXISTING, THE CONTRACTOR SHALL DO ALL NECESSARY CUTTING, FITTING, AND PATCHING. CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR AND MATERIALS TO EXECUTE WORK.

10. ALL MATERIALS AND METHODS OF INSTALLATION SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer: Dewberry — 600 Parsippany Road, Suite 301, Parsippany, NJ 07054-3715, Tel (973) 739-9400, Fax (973) 730-9710

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Project Number	Scale
3468	As indicated

Drawing Title: SECOND FLOOR ARCHITECTURAL & EQUIPMENT PLAN

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	EBC	NH

VA Project Number: 595-109

Building Number: 34

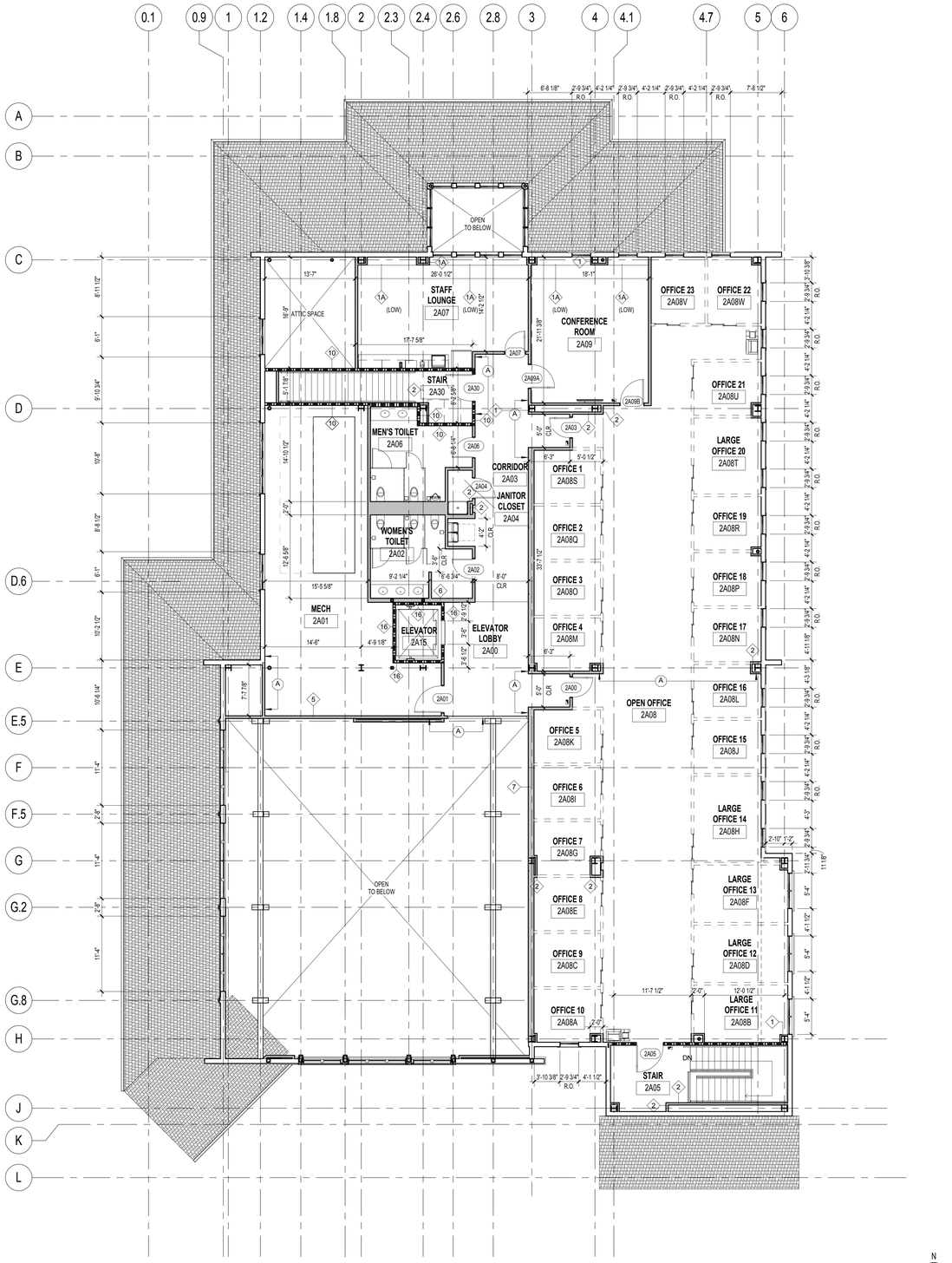
Drawing Number: AE121

Dwg. 39 of 123

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



F1 SECOND FLOOR DIMENSION PLAN
1/8" = 1'-0"

PARTITION PRIORITY LEGEND

TWO HOUR FIRE RATED PARTITION TWO HOUR FIRE SHAFT WALL	PRIORITY 1 (HIGHEST PRIORITY)
ONE HOUR FIRE RATED PARTITION ONE HOUR FIRE SHAFT WALL	PRIORITY 2
NON-RATED SMOKE PARTITION	PRIORITY 3
NON-RATED PARTITION	PRIORITY 4 (LOWEST PRIORITY)

PARTITION PLAN INDICATIONS

- EXISTING PARTITION TO BE REMOVED
- TYPICAL NON RATED PARTITION
- TYPICAL NON RATED SMOKE PARTITION
- TYPICAL ONE HOUR RATED PARTITION

GENERAL NOTES

1. SEE SHEET AE701 FOR DOOR SCHEDULE.
2. SEE SHEET AE702 FOR WINDOW SCHEDULE.
3. SEE SHEET AE201 FOR EQUIPMENT SCHEDULE.
4. SEE SHEET AE621 FOR TOILET ACCESSORIES SCHEDULE.
5. SEE SHEET AE612 FOR COLD-FORMED FRAMING NOTES.

ARCHITECTURAL FLOOR PLAN GENERAL NOTES

1. DO NOT SCALE DRAWINGS. DIMENSIONS IN LARGE SCALE PLANS, ELEVATIONS, AND DETAILS SHALL GOVERN OVER SMALL SCALE DETAILS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.

2. DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO CENTERLINE OF COLUMNS TO FINISH FACE OF INTERIOR PARTITION, CONCRETE OR MASONRY INTERIOR WALLS AND TO EXTERIOR FACE OF COLD-FORMED FRAMING AT EXTERIOR WALLS.

3. WHERE A ONE HOUR OR NON-RATED PARTITION IS SHOWN AS A CONTINUATION OF A TWO HOUR PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE GYPSUM BOARD SHALL BE ALIGNED. STUDS SHALL BE OFFSET AND AN ADDITIONAL LAYER OF GYPSUM BOARD SHALL BE PROVIDED TO PROVIDE FACE ALIGNMENT OF GYPSUM BOARD.

4. ALL WALL MOUNTED LAVATORIES SHALL BE MOUNTED TO ALLOW FOR 1'-3" MINIMUM BETWEEN THE CENTERLINE OF THE LAVATORY AND FACE OF ADJACENT WALL, UNLESS OTHERWISE NOTED. THERE IS AN ADDITIONAL REQUIREMENT TO PROVIDE A MINIMUM OF 4" BETWEEN SIDE OF LAVATORY AND FACE OF ADJACENT WALL, FIXED EQUIPMENT, CASEWORK, ETC.

5. ALL WATER CLOSETS SHALL BE MOUNTED SO THAT THERE IS 1'-6" BETWEEN FACE OF THE CLOSEST ADJACENT SIDE WALL OR TOILET PARTITION AND THE CENTERLINE OF THE WATER CLOSET. THE FLUSH VALVE FOR ALL WATER CLOSETS SHALL BE MOUNTED ON THE "OPEN-MOST" SIDE OF THE WATER CLOSET AT 44" MAXIMUM A.F.F. TO THE TOP.

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7. CONTRACTOR SHALL BUILD OUT PARTITIONS TO ACCOMMODATE DEPTH REQUIRED BY FIRE EXTINGUISHER CABINETS AND RECESSED POWER PANELS. COORDINATE WITH ENGINEERING DRAWINGS. FINAL LOCATIONS OF ALL CABINETS AND PANELS TO BE APPROVED BY ARCHITECT.

8. PROVIDE METAL STUD FRAMING AROUND ALL PENETRATIONS THRU METAL STUD PARTITIONS.

9. THE FLOOR SLAB SHALL BE SLOPED (2%) TO DRAIN. DO NOT INTERRUPT INTEGRITY OF FIRE RATING OF RAISED FLOOR SLAB.

PARTITION TYPES GENERAL NOTES

1. ALL FIRE RATED PARTITIONS MUST BE INSTALLED PER THEIR UL DESIGN NUMBERS.

2. INSTALL SOUND ATTENUATION BLANKET IN ALL PARTITIONS THAT FORM ANY PART OF THE ENCLOSURE OF THE FOLLOWING ROOMS: TOILET ROOMS, OFFICES AND MECHANICAL ROOMS. THESE PARTITIONS SHALL HAVE 3-1/2" FIBERGLASS BATT SOUND ATTENUATION BLANKETS AND MEET MINIMUM SOUND TRANSMISSION RATING OF STC 45. USE ACOUSTICAL SEALANT AROUND THE ENTIRE PERIMETER ON NON-RATED PARTITIONS.

3. REPLACE 5/8" GYPSUM WALLBOARD WITH 5/8" DENS-SHIELD IN ALL AREAS TO RECEIVE CERAMIC TILE. SKIM COAT ENTIRE SURFACE NOT COVER BY TILE.

4. REPLACE 5/8" GYPSUM WALLBOARD WITH 5/8" MOISTURE AND MOLD-RESISTANT GYPSUM WALL BOARD ON ALL PLUMBING WALL OTHER THAN THOSE COVERED IN NOTE # 4 ABOVE.

5. FOR HEIGHTS UP TO AND INCLUDING 14'-0" TYPICAL INTERIOR METAL STUDS ARE 20 GA. AT 16" O.C.; FOR HEIGHTS ABOVE 14'-0", USE 18 GA AT 16" O.C.; USE DOUBLE 20 GA. STUDS AT DOORS AND BORROWED LIGHT FRAMES.

6. INSTALL SUPPLEMENTARY FRAMING, BLOCKING, AND BRACING IN PARTITIONS TO SUPPORT FIXTURES, EQUIPMENT SERVICES, HEAVY TRIM, GRAB BARS, TOILET ACCESSORIES, DOOR HARDWARE, FURNISHINGS, OR SIMILAR CONSTRUCTION. COMPLY WITH DETAILS INDICATED AND WITH RECOMMENDATIONS OF "GYPSUM CONSTRUCTION HANDBOOK".

7. EXTEND ALL WALLS TO UNDERSIDE OF STRUCTURE ABOVE. PROVIDE SLIP TRACK AT TOP OR ANOTHER APPROVED METHOD TO ALLOW FOR A 1" DEFLECTION OF THE STRUCTURE.

8. ALL PARTITIONS SHALL BE TYPE 5 UNLESS OTHERWISE NOTED.

9. ALL COLUMN COVERS SHALL BE TYPE 1A UNLESS OTHERWISE NOTED.

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

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Project Number	Scale
3468	As indicated

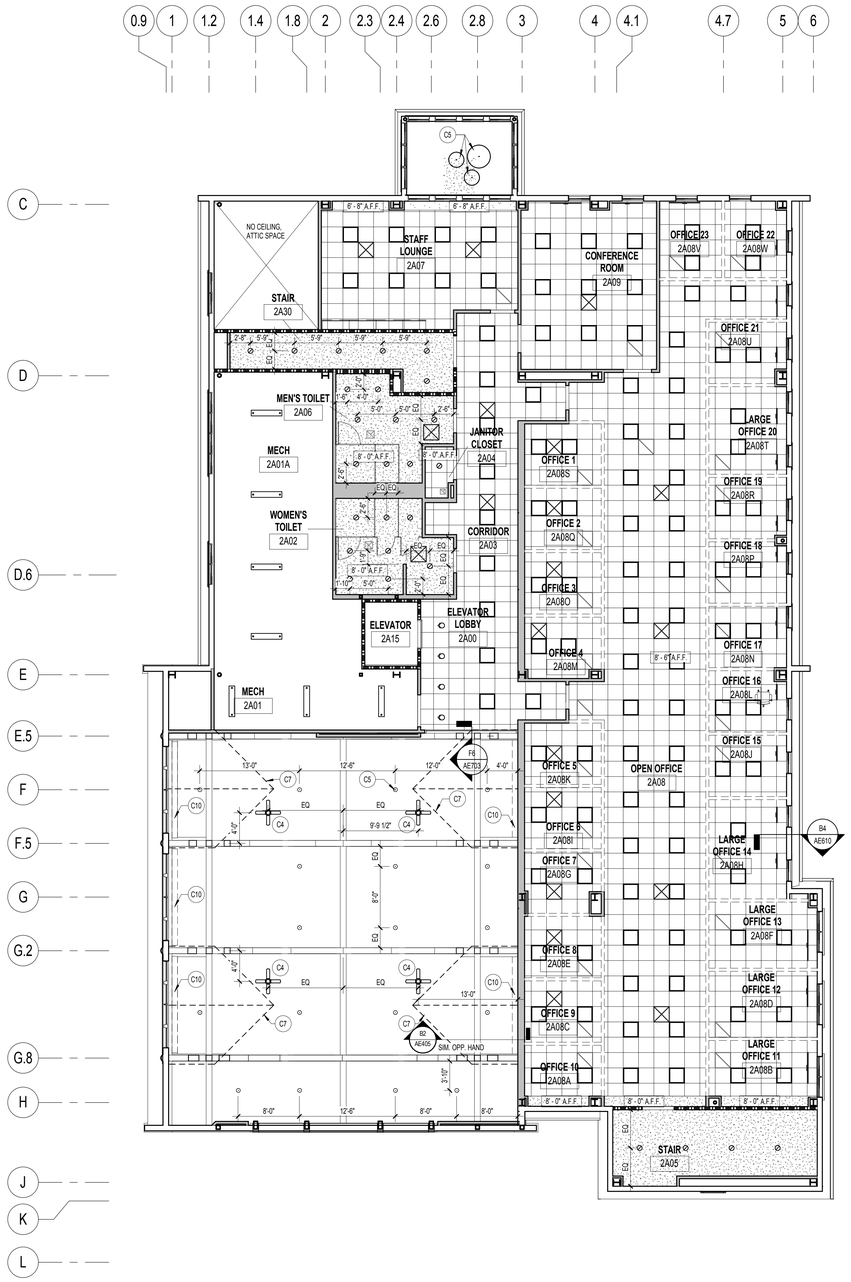
Approved: Project Director

Drawing Title	Project Title	VA Project Number
SECOND FLOOR DIMENSION PLAN	Behavioral Health Complex	595-109
		Building Number: 34
	Location: 1700 South Lincoln Ave. Lebanon, PA 17042	Drawing Number: AE122
	Date: 07/27/2012 · Checked: EBC · Drawn: NH	Dwg. 40 of 123

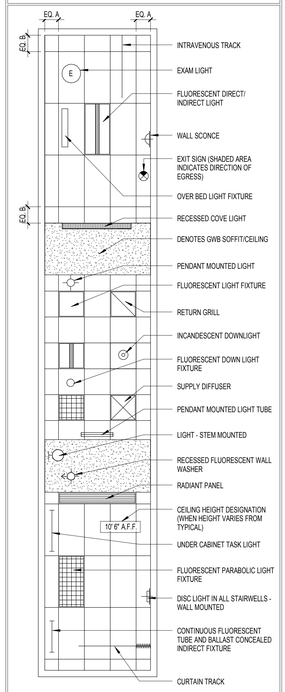
Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

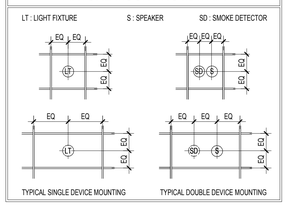


CEILING SYMBOL LEGEND



CEILING CONTRACTOR TO MEASURE EACH CEILING AREA AND ESTABLISH A CEILING LAYOUT TO BALANCE BORDER WIDTHS AT OPPOSITE EDGES OF EACH ROOM. AVOID USE OF LESS-THAN 6" TILES.

FIXTURE MOUNTING MATRIX



REFLECTED CEILING GENERAL NOTES

1. CONTRACTOR TO INSTALL CEILING IN ALL ROOMS AS SHOWN IN THE REFLECTED CEILING PLAN AND AS INDICATED IN THE FINISH SCHEDULE TO RECEIVE NEW CEILINGS. FOLLOW CEILING SYMBOL LEGEND FOR CEILING LAYOUT.

2. THE CONTRACTOR MUST SUBMIT TO ARCHITECT COORDINATED REFLECTED CEILING PLAN FOR REVIEW AND APPROVAL INCORPORATING LIGHT FIXTURES, SPRINKLER HEADS AND MECHANICAL LAYOUTS.

3. REFER TO HVAC DRAWINGS FOR LOCATION OF SUPPLY DIFFUSERS, RETURN GRILLS.

4. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF LIGHT FIXTURES AND CEILING MOUNTED SMOKE DETECTORS, SPEAKERS, FIRE ALARM DEVICES, NURSE CALL DOME LIGHTS, ETC.

5. SPRINKLER HEADS ARE NOT INDICATED ON THE REFLECTED CEILING PLANS. SPRINKLER HEADS TO ALIGN WITH EACH OTHER IN BOTH NORTH/SOUTH AND EAST/WEST DIRECTIONS WHERE THEY OCCUR IN A SINGLE SPACE. SIMILARLY FOR OTHER CEILING DEVICES. THE CONTRACTOR SHALL INSTALL SUFFICIENT SPRINKLER HEADS IN ALL SPACES TO PROVIDE (100%) COVERAGE AS DEFINED IN NFPA 13. REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS OF THE SPRINKLER HEADS.

6. THE CONTRACTOR SHALL VERIFY THAT ACCESS PANELS OF APPROPRIATE SIZE AND TYPE ARE INSTALLED IN GYPSUM BOARD CEILINGS OR SOFFITS AND OTHER NON ACCESSIBLE TYPE CEILINGS OR SOFFITS WHERE ACCESS, SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING OR ELECTRICAL ITEMS MAY BE NEEDED. ACCESS PANELS SHALL BE OF FIRE RATED TYPE EQUAL TO THE RATING OF THE CEILING OR SOFFIT IN WHICH THEY OCCUR.

7. THE CONTRACTOR SHALL PROVIDE ACCESS PANELS IN GYPSUM BOARD CEILINGS AND IN HARD SURFACE SOFFITS SO THAT THE ARCHITECT, THE STATE AND LOCAL OFFICIALS CAN INSPECT RATED WALLS. THESE ACCESS PANELS SHALL BE LOCATED AS NECESSARY TO VIEW ALL SURFACES OF THE RATED WALL(S).

8. ALL CEILING HEIGHTS TO BE 9'-0" U.N.O. ALL GWB SOFFIT HEIGHTS TO BE 8'-0" U.N.O.

9. WHERE SUPPORT WIRES FOR ACOUSTICAL CEILING GRID CANNOT BE INSTALLED VERTICALLY, THE CONTRACTOR SHALL PROVIDE A UNISTRUT BENEATH THE OBSTRUCTION AS TO PERMIT WIRES TO BE VERTICALLY ATTACHED TO THE UNISTRUT.

REFLECTED CEILING PLAN KEYNOTES

C1	CEMENTITIOUS BOARD TRIM.
C2	SOFFIT VENT.
C3	EXPOSED CEILING.
C4	CEILING FAN.
C5	PENDANT LUMINAIRE; SEE ELECTRICAL DRAWINGS.
C6	CONTROL JOINT.
C7	LINE INDICATES EXTENT OF ROOF DORMER.
C8	LINE OF 1" EXPANSION CAULK JOINT.
C9	INSTALL NEW CAP TO END OF EXISTING GUTTER.
C10	MOTORIZED ROLLER SHADE & ENCLOSURE.

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

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REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA

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Project Number	Scale
3468	As indicated

Drawing Title: SECOND FLOOR REFLECTED CEILING PLAN

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	EBC	NH

VA Project Number: 595-109

Building Number: 34

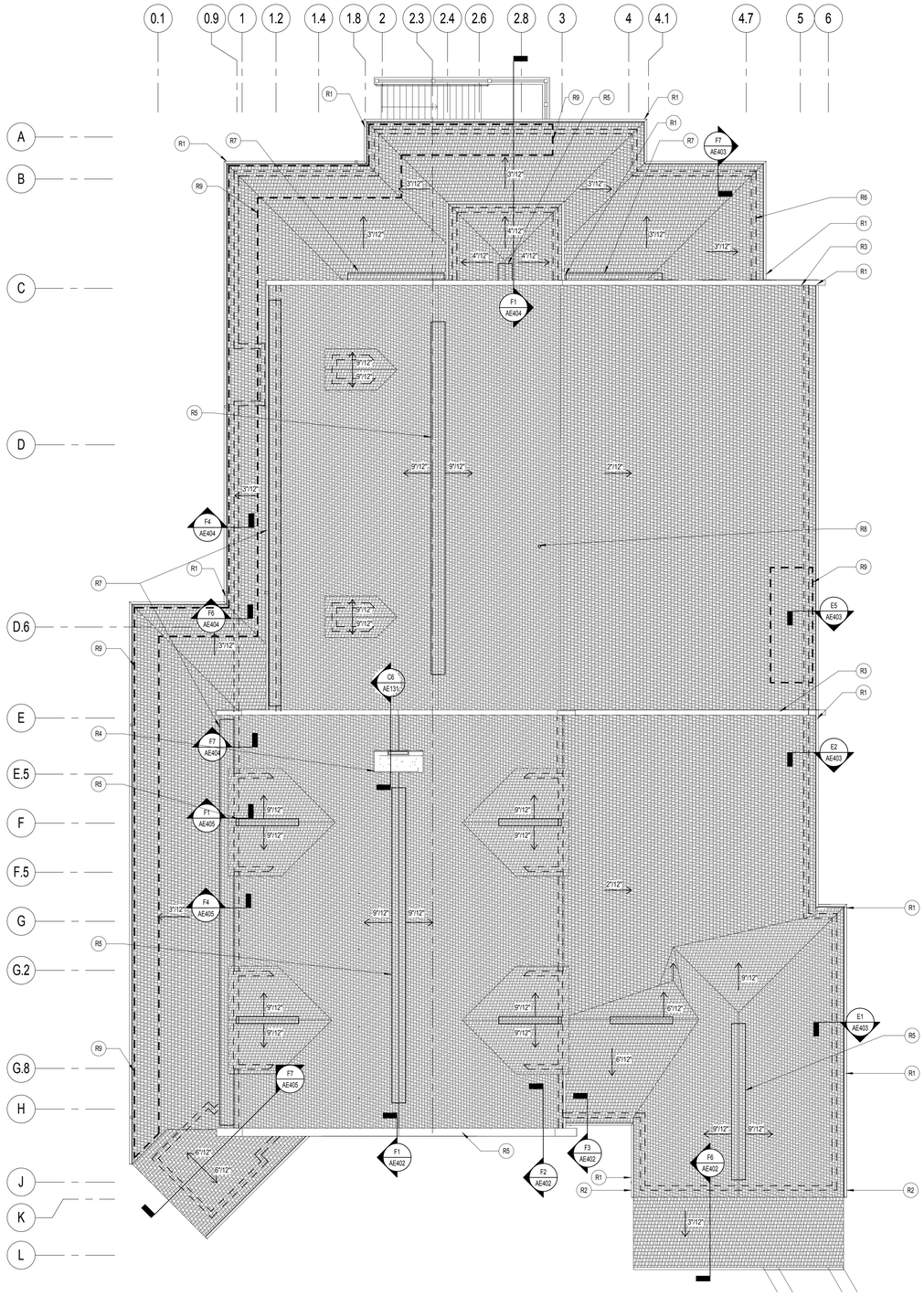
Drawing Number: AE123

Dwg. 41 of 123

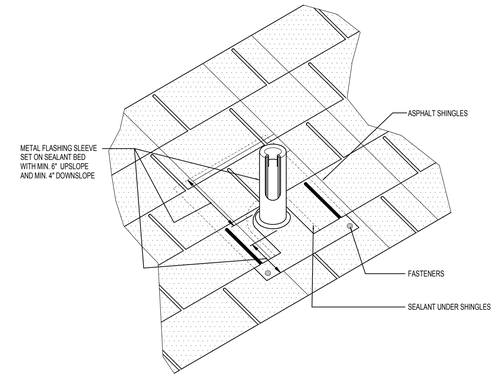
Office of Facilities Management

Department of Veterans Affairs

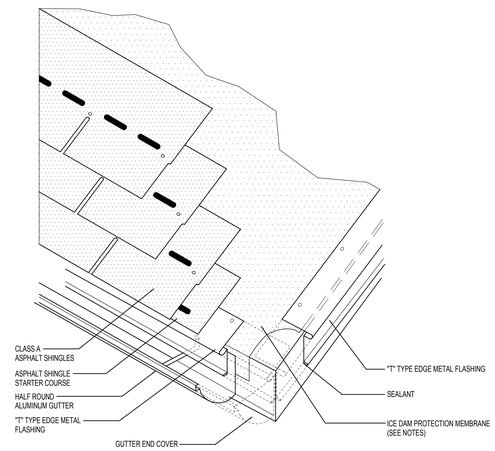
VA FORM 08-6231, OCT 1978



F1 ROOF PLAN
1/8" = 1'-0"



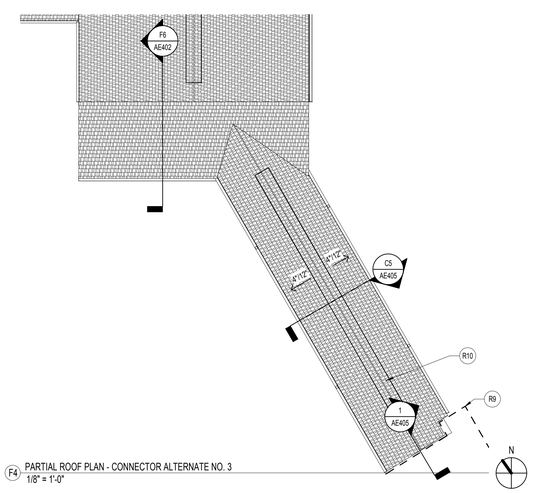
B4 PIPE PENETRATION DETAIL
NOT TO SCALE



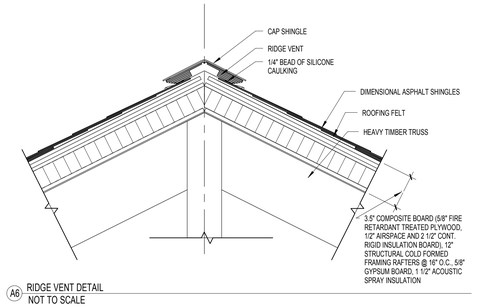
NOTES:

1. ICE DAM TO BE INSTALLED UNDER THE EAVE EDGE METAL FLASHING.
2. THIS DETAIL SHOWS ONE TYPE OF GUTTER SUPPORT. GUTTER SECUREMENT AND SUPPORT OPTIONS VARY ACCORDING TO REGIONAL PRACTICES AND MANUFACTURERS SPECIFICATIONS.
3. STARTER COURSE IS TO RUN UP FULL LENGTH OF EAVES; SEE SPECIFICATIONS.

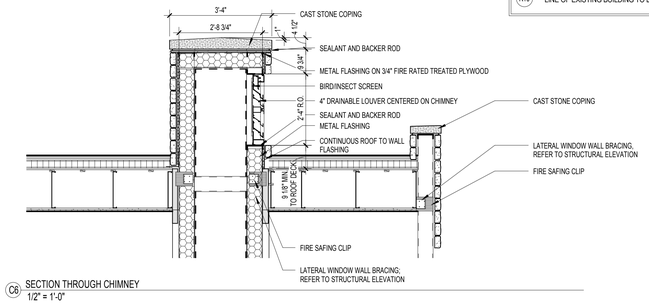
D4 EAVE AND RAKE FLASHING WITH GUTTER DETAIL
1 1/2" = 1'-0"



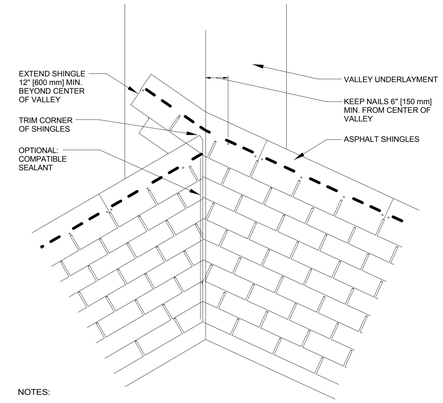
F4 PARTIAL ROOF PLAN - CONNECTOR ALTERNATE NO. 3
1/8" = 1'-0"



A6 RIDGE VENT DETAIL
NOT TO SCALE



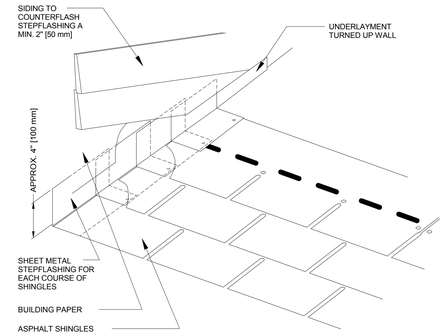
C6 SECTION THROUGH CHIMNEY
1/2" = 1'-0"



NOTES:

1. FIELD UNDERLAYMENT NOT SHOWN FOR CLARITY.
2. VALLEY UNDERLAYMENT TYPE AND NECESSITY MAY VARY DEPENDING ON CLIMATIC CONDITIONS.
3. THE CUT SIDE OF THE VALLEY SHOULD BE ON THE SIDE WITH THE GREATEST AREA.

E7 CLOSED CUT VALLEY DETAIL AT ASPHALT ROOF
1/2" = 1'-0"



F7 SIDE WALL FLASHING AT ASPHALT ROOF DETAIL
1/2" = 1'-0"

ROOF PLAN GENERAL NOTES

1. ROOFING TO BE DIMENSIONAL ASPHALT SHINGLES.
2. PROVIDE 3'-0" WIDE ICE AND WATER SHIELD AT VALLEYS (TYP).
3. PROVIDE 1/4"/FT PITCH TO ROOF GUTTERS ON THE HIGH ROOF, 1/8"/FT TO GUTTERS ON THE LOW ROOF.

ROOF PLAN KEYNOTES

R1	ALUMINUM GUTTER SYSTEM.
R2	ALUMINUM DOWNSPOUT AND LEADER BOX.
R3	ADHERED THIN VENEER STONE WALL.
R4	CAST STONE COPING.
R5	RIDGE VENT.
R6	WALL BELOW.
R7	WALL TO ROOF VENTS.
R8	VENT THROUGH ROOF; SEE DETAIL B4 THIS SHEET.
R9	PROVIDE SNOW GUARDS AS SPECIFIED.
R10	LINE OF EXISTING BUILDING TO BE VERIFIED IN FIELD.

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

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Project Number	Scale
3468	As indicated

Drawing Title: ROOF PLAN

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date: 07/27/2012 | Checked: JP | Drawn: NH

VA Project Number: 595-109

Building Number: 34

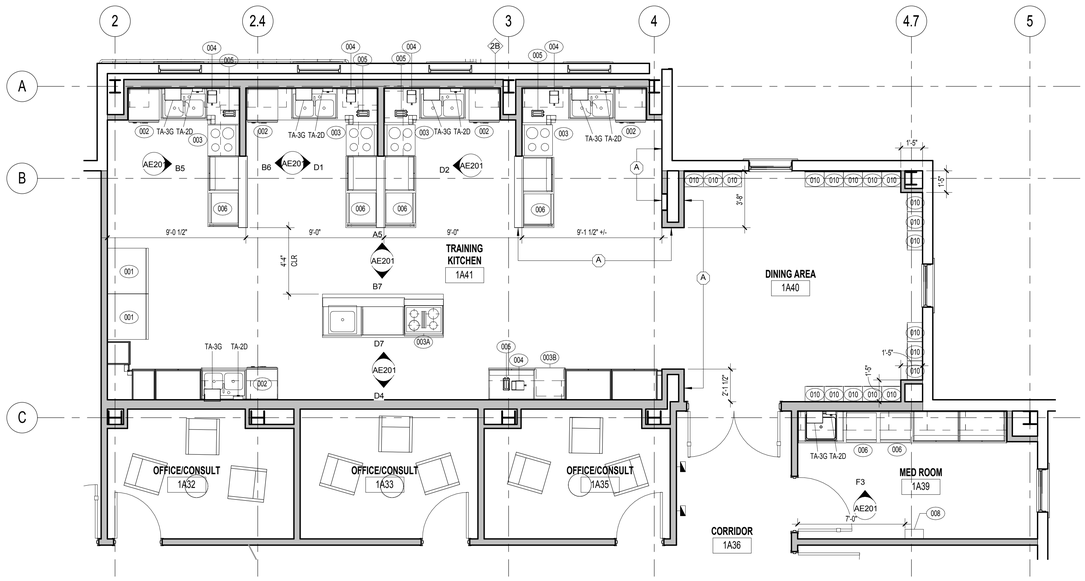
Drawing Number: AE131

Dwg. 42 of 123

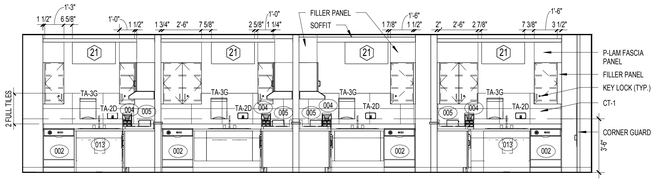
Office of Facilities Management

Department of Veterans Affairs

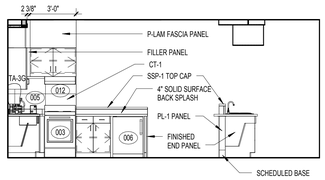
VA FORM 08-6231, OCT 1978



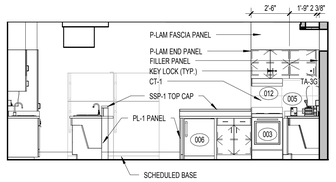
C1 TRAINING KITCHEN & MED ROOM ENLARGED PLAN
1/4" = 1'-0"



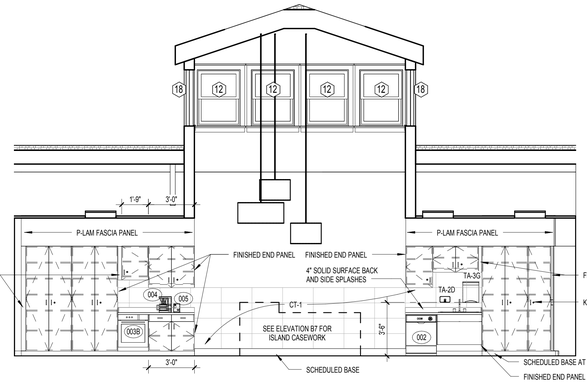
A5 TRAINING KITCHEN ELEVATION - A
1/4" = 1'-0"



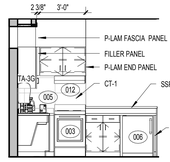
D1 TRAINING KITCHEN ELEVATION - D
1/4" = 1'-0"



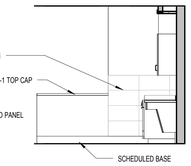
D2 TRAINING KITCHEN ELEVATION - E
1/4" = 1'-0"



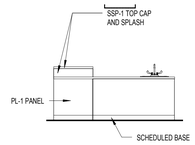
D4 TRAINING KITCHEN ELEVATION - G
1/4" = 1'-0"



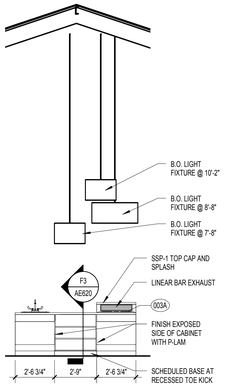
B5 TRAINING KITCHEN ELEVATION - B
1/4" = 1'-0"



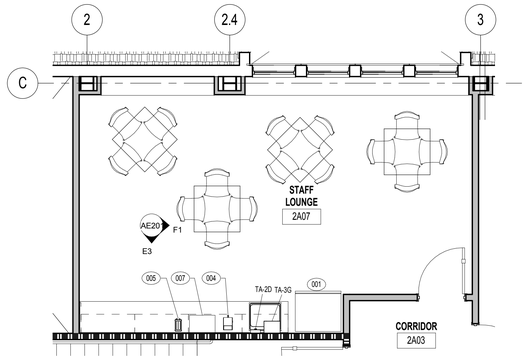
B6 TRAINING KITCHEN ELEVATION - C
1/4" = 1'-0"



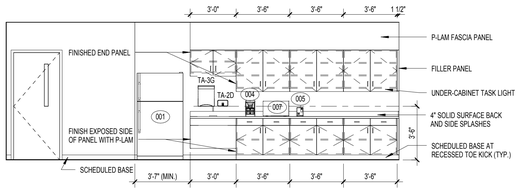
B7 TRAINING KITCHEN ELEVATION - H
1/4" = 1'-0"



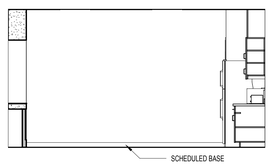
D7 TRAINING KITCHEN ELEVATION
1/4" = 1'-0"



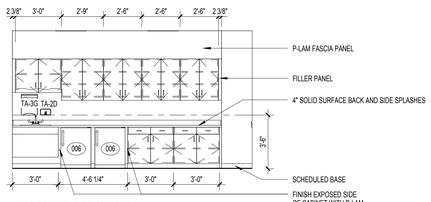
E1 STAFF LOUNGE ENLARGED PLAN
1/4" = 1'-0"



E3 STAFF LOUNGE ELEVATION - A
1/4" = 1'-0"



F1 STAFF LOUNGE ELEVATION - B
1/4" = 1'-0"

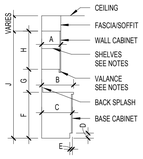


F3 MED ROOM ELEVATION NORTH
1/4" = 1'-0"

CABINET DIMENSIONS LEGEND

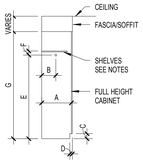
1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION.
2. DIMENSIONS IDENTIFIED IN THE THIS LEGEND ARE TYPICAL UNLESS OTHERWISE NOTED IN ELEVATIONS AND OR SECTIONS.

STANDARD CABINETS



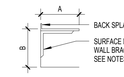
A. 1'-3"
B. TYPICAL - 2'-1"
C. 2'-0"
D. 4"
E. 2"
F. TYPICAL - 2'-10"
G. TYPICAL - 1'-10"
AT SINK - 2'-4"
AT WORK COUNTER - 2'-2"
H. TYPICAL - 2'-6"
AT SINK - 2'-0"
AT WORK COUNTER - 2'-6"
J. 7'-2"

FULL HEIGHT CABINETS



A. 1'-1" TO 2'-1" (SEE PLAN)
B. 11"
C. 4"
D. 2"
E. TYPICAL 5'-6"
ADA COMPLIANT 3'-10"
F. 2"
G. 7'-2"

WORK COUNTER



A. 2'-6" TYPICAL
2'-1" WHEN ADJACENT
TO BASE CABINETS
B. 2'-6"

CASEWORK NOTES

1. THESE NOTES ARE TYPICAL UNLESS OTHERWISE NOTED.
2. ALL CASEWORK TO BE BALANCED CONSTRUCTION.
3. ALL COUNTERTOPS WITH SINKS TO HAVE MOISTURE RESISTANT MDF SUBSTRATE.
4. ALL EXPOSED AND SEMI EXPOSED PARTS, AS DETERMINED IN THE "IDENTIFICATION OF PART NOTES" TO HAVE PLASTIC LAMINATE FINISH.
5. ALL SIX FACES OF ADJUSTABLE SHELVING TO HAVE PLASTIC LAMINATE FINISH.
6. ALL ADJUSTABLE SHELVING TO BE 12" DEEP UNLESS OTHERWISE NOTED.
7. ALL SHELVES TO BE 3/4" THICK MDF FOR SPANS UP TO 2'-0". ADD 3/4" X 1-1/2" SOLID LUMBER DROPPED EDGE FOR SPANS OVER 2'-0" USE.
8. ALL OPEN SPACE SIZES AND KNEE BRACES LOCATIONS TO BE VERIFIED WITH EQUIPMENT TO BE INSTALLED AND WITH ACTUAL ROOM DIMENSIONS.
9. PROVIDE SURFACE MOUNTED WALL BRACKET FOR COUNTERS WITH SPANS GREATER THAN 4'-0" UNLESS NOTED OTHERWISE.
10. ALL PLASTIC LAMINATE JOINTS TO BE NOTED ON SHOP DRAWINGS.
11. 4" BACKSPLASH AND ENDSPLASH TYPICAL UNLESS OTHERWISE NOTED.
12. ALL FINISHED END PANELS AT WALL CABINETS TO BE ONE CONTINUOUS PANEL INCLUDING VALANCE.
13. ALL FINISHED END PANELS AT BASE CABINETS TO BE ONE CONTINUOUS PANEL INCLUDING BASE.
14. ALL EXPOSED CORNERS OF COUNTERTOPS TO HAVE 1" RADIUS AND 3" AT NURSE'S STATION.
15. AT CUTOUTS AND "L" SHAPED COUNTERTOPS, ALL INSIDE CORNERS TO BE SMOOTHLY ROUNDED WITH A MINIMUM CORNER RADIUS OF 1/2".
16. INSTALL GROMMETS IN COUNTER TOPS @ 2'-0" ON CENTER.
17. ALL WALL CABINETS TO HAVE VALANCE UNLESS NOTED OTHERWISE.
18. PULL SHOWN INDICATES POSITION ONLY; SEE CODE FOR HINGE SIDE OF DOOR. LOCATE PULL OPPOSITE HINGE.
19. PROVIDE A MINIMUM 1-1/2" FILLER / SCRIBE STRIPS @ JUNCTION BETWEEN ALL BASE AND WALL CABINETS AND ADJACENT WALLS TO ALLOW DOORS TO SWING OPEN AT LEAST 90 DEGREES.

IDENTIFICATION OF PARTS NOTES

A. EXPOSED PARTS - SURFACES VISIBLE WHEN:

1. DRAWER FRONTS AND DOORS ARE CLOSED;
2. CABINETS AND SHELVING ARE OPEN-TYPE OR BEHIND CLEAR GLASS DOORS;
3. BOTTOMS OF CABINETS ARE SEEN 42" OR MORE ABOVE FINISHED FLOOR;
4. TOPS OF CABINETS ARE SEEN BELOW 78" ABOVE FINISHED FLOOR, OR ARE VISIBLE FROM AN UPPER FLOOR OR STAIRCASE AFTER INSTALLATION.
5. PORTION OF CABINETS ARE VISIBLE AFTER FIXED APPLIANCES ARE INSTALLED;
6. FRONT EDGES OF CABINET BODY MEMBERS ARE VISIBLE OR SEEN THROUGH A GAP GREATER THAN 1/8" WITH DOORS AND DRAWERS CLOSED.

B. SEMI-EXPOSED PARTS - SURFACES VISIBLE WHEN:

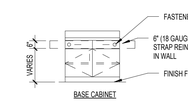
1. DRAWER AND DOORS ARE IN THE OPEN POSITION;
2. BOTTOMS OF CABINETS ARE BETWEEN 30" AND UP TO 42" ABOVE FINISHED FLOOR.
3. ALL FRONT EDGES OF SHELVING BEHIND DOORS.

C. CONCEALED SURFACES - SURFACES ARE CONCEALED WHEN:

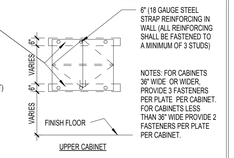
1. SURFACES ARE NOT VISIBLE AFTER INSTALLATION;
2. BOTTOMS OF CABINETS ARE LESS THAN 30" ABOVE FINISHED FLOOR;
3. TOPS OF CABINETS ARE OVER 78" ABOVE FINISHED FLOOR AND ARE NOT VISIBLE FROM AN UPPER FLOOR OR STAIRCASE AFTER INSTALLATION.
4. STRETCHERS, BLOCKING AND/OR COMPONENTS ARE CONCEALED BY DRAWERS.

TYPICAL BLOCKING/ANCHORING LOCATION

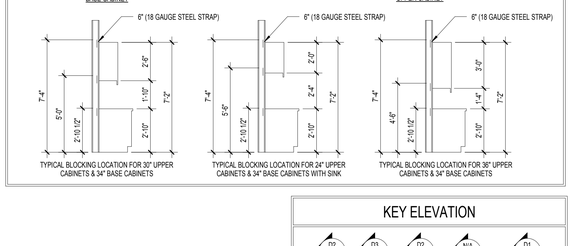
* VERIFY ALL DIMENSIONS WITH CASEWORK CONTRACTOR. BLOCKING HEIGHT MAY VARY DEPENDING ON CABINET HEIGHT, COUNTER TOP HEIGHT & FIELD CONDITIONS



BASE CABINET



UPPER CABINET

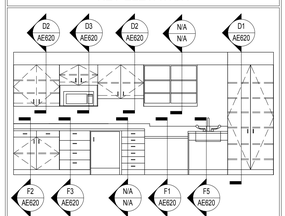


TYPICAL BLOCKING LOCATION FOR 30" UPPER CABINETS & 34" BASE CABINETS

TYPICAL BLOCKING LOCATION FOR 24" UPPER CABINETS & 34" BASE CABINETS WITH SINK

TYPICAL BLOCKING LOCATION FOR 36" UPPER CABINETS & 34" BASE CABINETS

KEY ELEVATION



NOTE: THE SECTION TAG INFORMATION SHOWN ON KEY ELEVATION ABOVE ARE TYPICAL FOR ALL CASEWORK ELEVATION UNLESS NOTED OTHERWISE.

CASEWORK GENERAL NOTES

1. SEE SHEET AE604 FOR ADDITIONAL CASEWORK DETAILS.
2. SEE SHEET AE621 FOR TOILET ACCESSORIES LEGEND AND SCHEDULE.
3. PROVIDE 1/4" REVEAL WHERE MILLWORK MEETS WALL.
4. COORDINATE ALL CLEARANCES WITH EQUIPMENT.
5. REFER TO FINISH LEGEND, SHEET AF111 FOR ADDITIONAL INFORMAITON.
6. ALL CASEWORK TO BE PL-1 U.N.O. ALL COUNTERTOPS TO BE SSP-1 U.N.O.

EQUIPMENT SCHEDULE

Mark	EQUIPMENT DESCRIPTION	RESPONSIBILITIES PURCHASED BY	PLACED BY	INSTALLED BY	BY CONTRACTOR BLOCKING / SUPPORT SYSTEM	MECHANICAL ROUGH-IN	PLUMBING ROUGH-IN	ELECTRICAL ROUGH-IN	COMMUNICATION ROUGH-IN	REMARKS
001	Refrigerator with Freezer	OWNER	OWNER	OWNER	No	No	Yes	Yes	No	
002	Dishwasher	OWNER	OWNER	CONTRACTOR	No	Yes	No	No	No	
003	Range/Oven	OWNER	OWNER	CONTRACTOR	No	No	No	Yes	No	
003A	Drop-in Cooktop	OWNER	OWNER	CONTRACTOR	No	No	No	Yes	No	
003B	Built-in Oven	OWNER	OWNER	CONTRACTOR	Yes	Yes	No	Yes	No	
004	Coffee Maker	OWNER	OWNER	OWNER	No	No	No	No	No	
005	Toaster	OWNER	OWNER	OWNER	No	No	No	No	No	
006	Refrigerator, Undercounter	OWNER	OWNER	OWNER	No	No	No	Yes	No	
007	Microwave	OWNER	OWNER	OWNER	No	No	No	Yes	No	
008	Disposal, Sharps, Wall Mount	OWNER	OWNER	CONTRACTOR	No	No	No	No	No	
009	Copier/Printer/Scanner	OWNER	OWNER	OWNER	No	No	No	No	No	
010	Z-Locker, 15"x12"x72" Sloped Top	OWNER	OWNER	OWNER	No	No	No	No	No	SOLID PHENOLIC
011	VTEL Smart Board	OWNER	OWNER	OWNER	Yes	No	No	Yes	Yes	
012	Hood	OWNER	OWNER	OWNER	Yes	Yes	No	Yes	No	
013	Garbage Disposal	CONTRACTOR	CONTRACTOR	CONTRACTOR	No	No	Yes	Yes	No	
014	Pastry/Cooler Display Case	OWNER	OWNER	CONTRACTOR	No	No	Yes	Yes	No	
015	Refrigerated Food Prep Table	OWNER	OWNER	CONTRACTOR	No	No	Yes	Yes	No	
016	Oven, Microwave/Convection, Combination	OWNER	OWNER	OWNER	No	Yes	No	Yes	No	
017	Coffee Brewer	OWNER	OWNER	OWNER	No	No	Yes	Yes	No	
018	Undercounter Refrigerator	OWNER	OWNER	CONTRACTOR	No	No	Yes	Yes	No	
019	Beverage Display Case	OWNER	OWNER	OWNER	No	No	No	Yes	No	
021	Cash Register	OWNER	OWNER	OWNER				Yes	Yes	

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions | Date

CONSULTANTS:

Civil Engineer: Dewberry — 600 Parsippany Road, Suite 301, Parsippany, NJ 07054-3715, Tel (973) 739-9400, Fax (973) 730-9710

Structural Engineer: WZG — 180 W. Ridge Pike, Limerick, PA 19468, Tel (214) 329-5559

MEP Engineer: H.E. Lenz Company — 1407 Scalp Avenue, Johnstown, PA 15904, Tel (814) 269-9300, Fax (814) 269-9301

Environmental Consultant: SSM — 1047 North Park Road, P.O. Box 6307, Reading, PA 19610, Tel (610)621-2000

Cost Estimator: International Consultants, Inc. — 221 Chestnut Street, Suite 200, Philadelphia, PA 19106, Tel (215) 923-8888

ARCHITECT:

ARRAY — healthcare facilities solutions

2520 Renaissance Boulevard, Suite 110
King of Prussia, PA 19406

t: 610.270.0599
f: 610.270.0995
www.arrayhfs.com

Project Number	Scale
3468	As indicated

Drawing Title: ENLARGED CASEWORK PLANS, ELEVATIONS, AND EQUIPMENT SCHEDULE

Approved: Project Director

Project Title: Behavioral Health Complex

VA Project Number: 595-109

Building Number: 34

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date: 07/27/2012 | Checked: EBC | Drawn: NH

Drawing Number: AE201

Dwg. 43 of 123

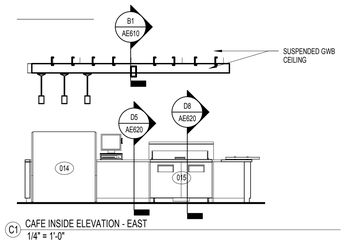
Office of Facilities Management

Department of Veterans Affairs

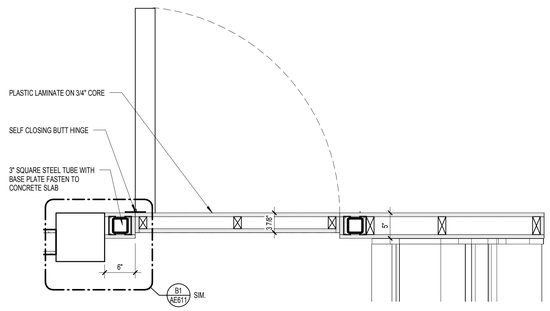
VA FORM 08-6231, OCT 1978

CASEWORK GENERAL NOTES

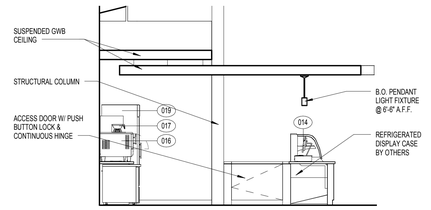
1. SEE SHEET AE604 FOR ADDITIONAL CASEWORK DETAILS.
2. SEE SHEET AE621 FOR TOILET ACCESSORIES LEGEND AND SCHEDULE.
3. PROVIDE 1/4" REVEAL WHERE MILLWORK MEETS WALL.
4. COORDINATE ALL CLEARANCES WITH EQUIPMENT.
5. REFER TO FINISH LEGEND, SHEET AF111 FOR ADDITIONAL INFORMAITON.
6. ALL CASEWORK TO BE PL-1 U.N.O. ALL COUNTERTOPS TO BE SSP-1 U.N.O.



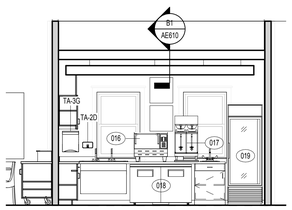
C1 CAFE INSIDE ELEVATION - EAST
1/4" = 1'-0"



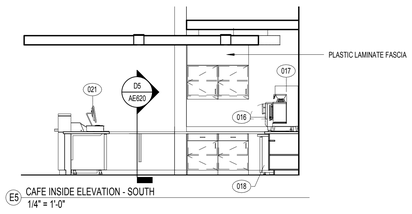
C3 DETAIL @ CAFE DOOR
1" = 1'-0"



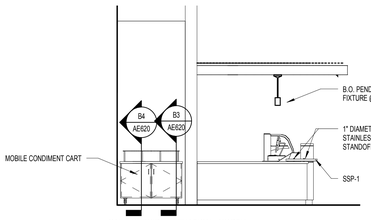
E1 CAFE INSIDE ELEVATION - NORTH
1/4" = 1'-0"



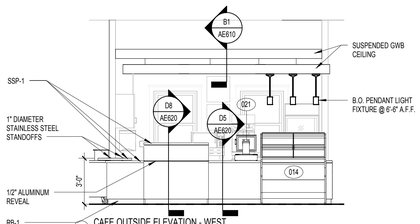
E3 CAFE INSIDE ELEVATION - WEST
1/4" = 1'-0"



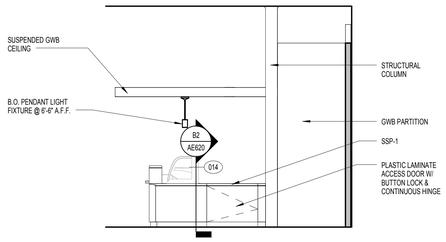
E5 CAFE INSIDE ELEVATION - SOUTH
1/4" = 1'-0"



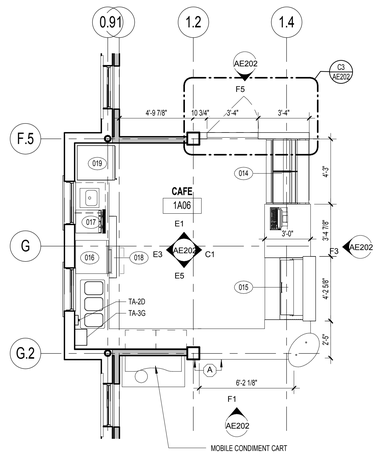
F1 CAFE OUTSIDE ELEVATION - NORTH
1/4" = 1'-0"



F3 CAFE OUTSIDE ELEVATION - WEST
1/4" = 1'-0"



F5 CAFE OUTSIDE ELEVATION - SOUTH
1/4" = 1'-0"



F7 CAFE ENLARGED PLAN
1/4" = 1'-0"

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer	Structural Engineer	MEP Engineer	Environmental Consultant	Cost Estimator
Dewberry	WZG Structural Engineers	H.F. Lenz Company	SSM	International Consultants, Inc.
600 Parsippany Road, Suite 301 Parsippany, NJ 07054-3715 Tel (973) 739-9400 Fax (973) 730-9710	180 W. Ridge Pike Limerick, PA 19468 Tel (214) 329-5559	1407 Scalp Avenue Johnstown, PA 15904 Tel (814) 269-9300 Fax (814) 269-9301	1047 North Park Road, P.O. Box 6307 Reading, PA 19610 Tel (610) 621-2000	221 Chestnut Street, Suite 200 Philadelphia, PA 19106 Tel (215) 923-8888

REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA

ARCHITECT:

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Project Number	Scale
3468	As indicated

Drawing Title: ENLARGED CASEWORK PLANS & ELEVATIONS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	EBC	NS

VA Project Number: 595-109

Building Number: 34

Drawing Number: AE202

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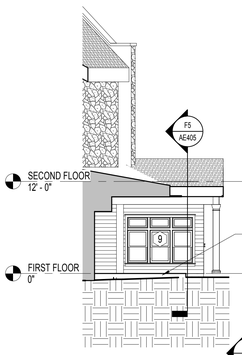
Office of Facilities Management

Department of Veterans Affairs

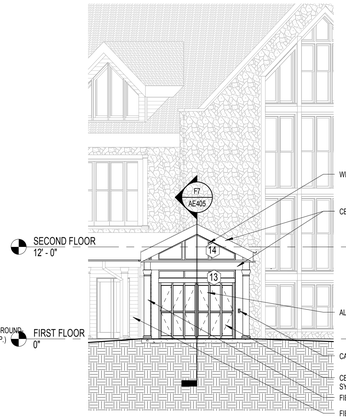
VA FORM 08-6231, OCT 1978

ELEVATION GENERAL NOTES

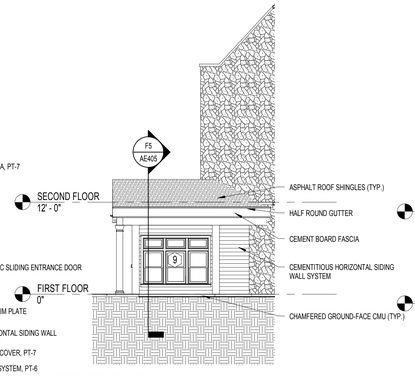
1. ALL EXTERIOR TRIM TO BE PT-7 WHERE FIBER CEMENT SIDING OCCURS. ALL EXTERIOR TRIM TO BE PT-6 WHERE STONE VENEER OCCURS U.N.O.
2. PRE-CAST TRIM TO OCCUR AT STONE VENEER.
3. ALL ANCILLARY TRIM (IE. CARD READER BACKPLATES, OUTLETS, ETC.) THAT OCCUR TO BE PAINTED TO MATCH FIELD COLOR.
4. TOP OF FINISHED FLOOR 0'-0" DATUM. DATUM = 559.50'.



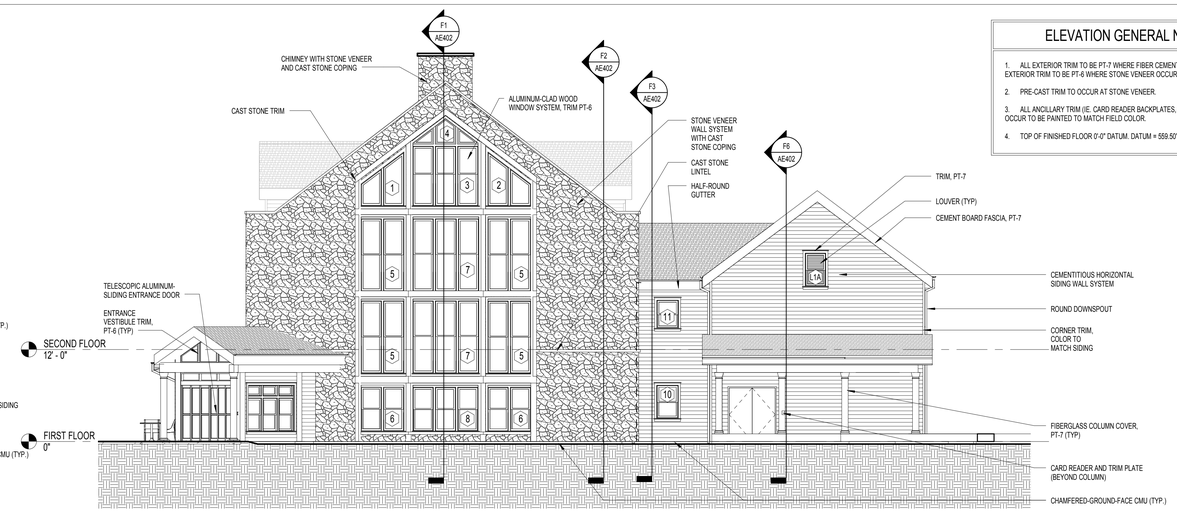
B1 ENTRY ELEVATION NW 13
1/8" = 1'-0"



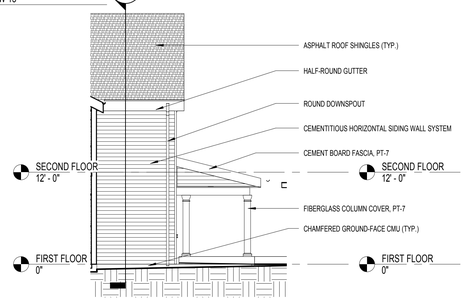
B2 ENTRY ELEVATION SW 1
1/8" = 1'-0"



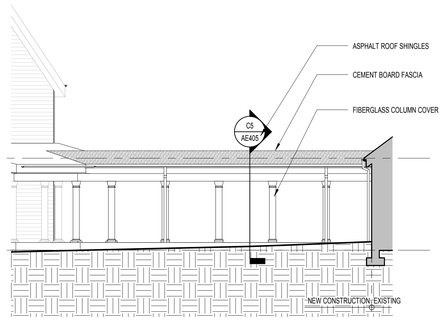
B3 ENTRY ELEVATION SE 2
1/8" = 1'-0"



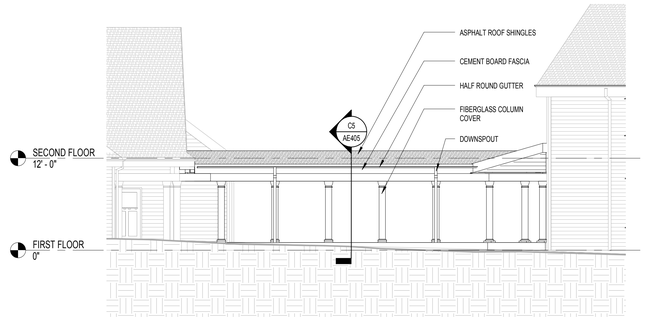
B5 SOUTH ELEVATION 3
1/8" = 1'-0"



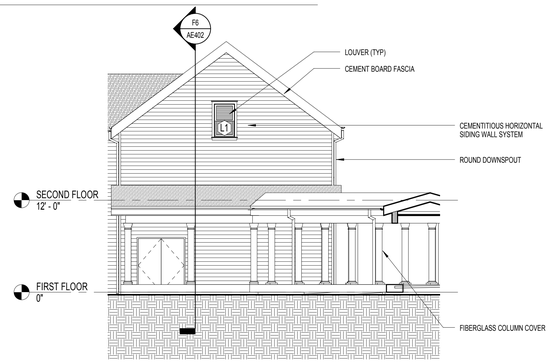
D1 STAIR ELEVATION WEST 4
1/8" = 1'-0"



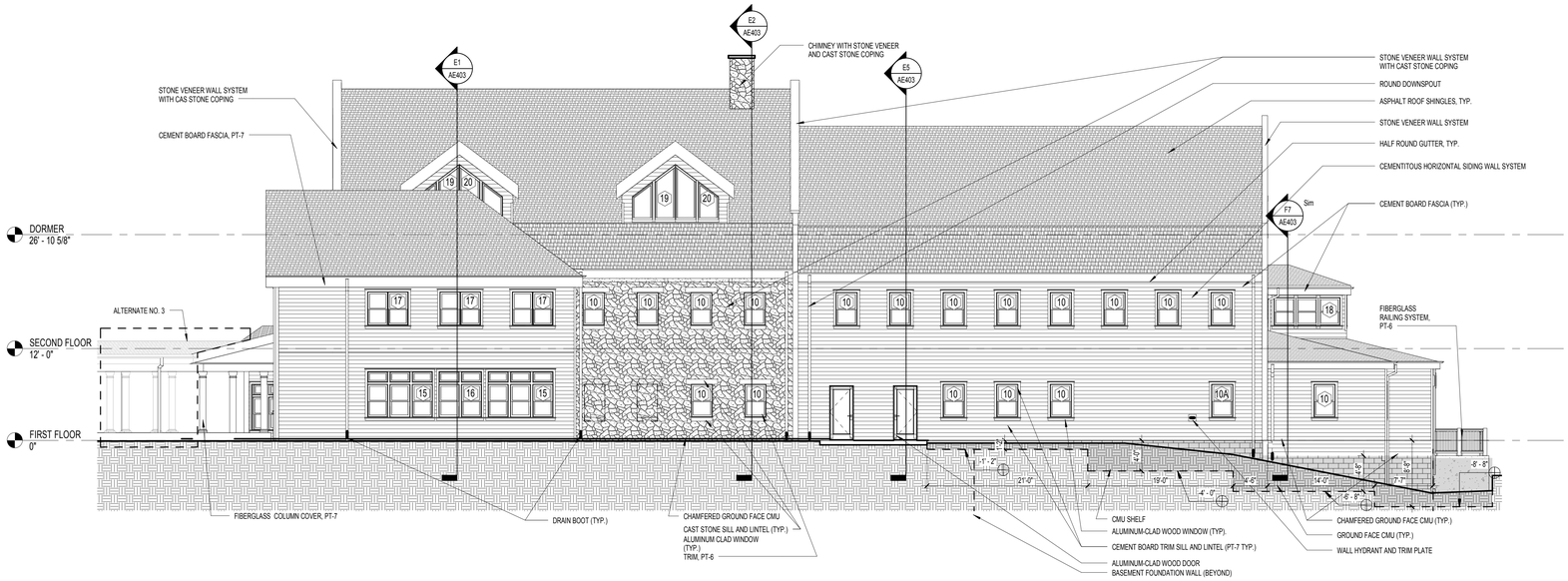
D2 CONNECTOR ELEVATION EAST - ALTERNATE NO. 3
1/8" = 1'-0"



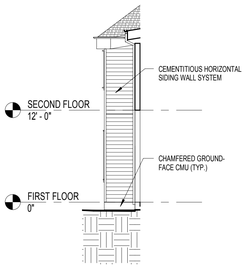
D4 CONNECTOR ELEVATION WEST - ALTERNATE NO. 3
1/8" = 1'-0"



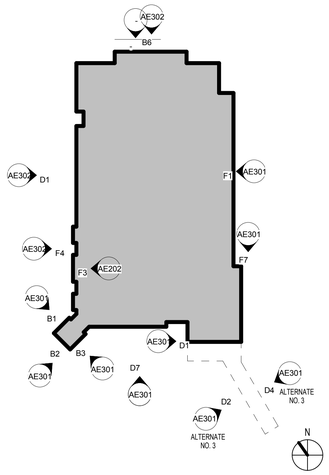
D7 PARTIAL SOUTH ELEVATION 3 - ALTERNATE NO. 3
1/8" = 1'-0"



F1 EAST ELEVATION 7
1/8" = 1'-0"



F7 NORTH ELEVATION COMPUTER AREA 8
1/8" = 1'-0"



FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer: Dewberry, 600 Parsippany Road, Suite 301, Parsippany, NJ 07054-3715, Tel (973) 739-9400, Fax (973) 730-9710

Structural Engineer: WZG, 180 W. Ridge Pike, Limerick, PA 19468, Tel (214) 329-5559

MEP Engineer: H.E. Lenz Company, 1407 Scalp Avenue, Johnstown, PA 15904, Tel (814) 269-9300, Fax (814) 269-9301

Environmental Consultant: SSM, 1047 North Park Road, P.O. Box 6307, Reading, PA 19610, Tel (610) 621-2000

Cost Estimator: International Consultants, Inc., 221 Chestnut Street, Suite 200, Philadelphia, PA 19106, Tel (215) 923-8888

REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA JOHN KIRKPATRICK NH 014000

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Project Number	Scale
3468	As indicated

Drawing Title: EXTERIOR ELEVATIONS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	EBC	NH

VA Project Number: 595-109

Building Number: 34

Drawing Number: AE301

Dwg. 45 of 123

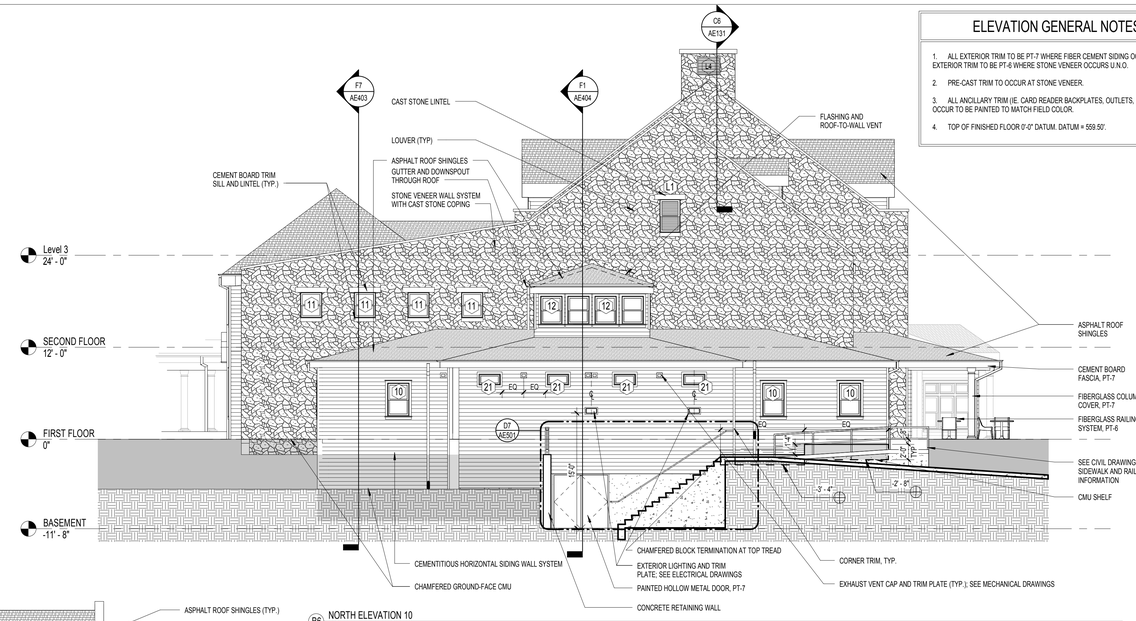
Office of Facilities Management

Department of Veterans Affairs

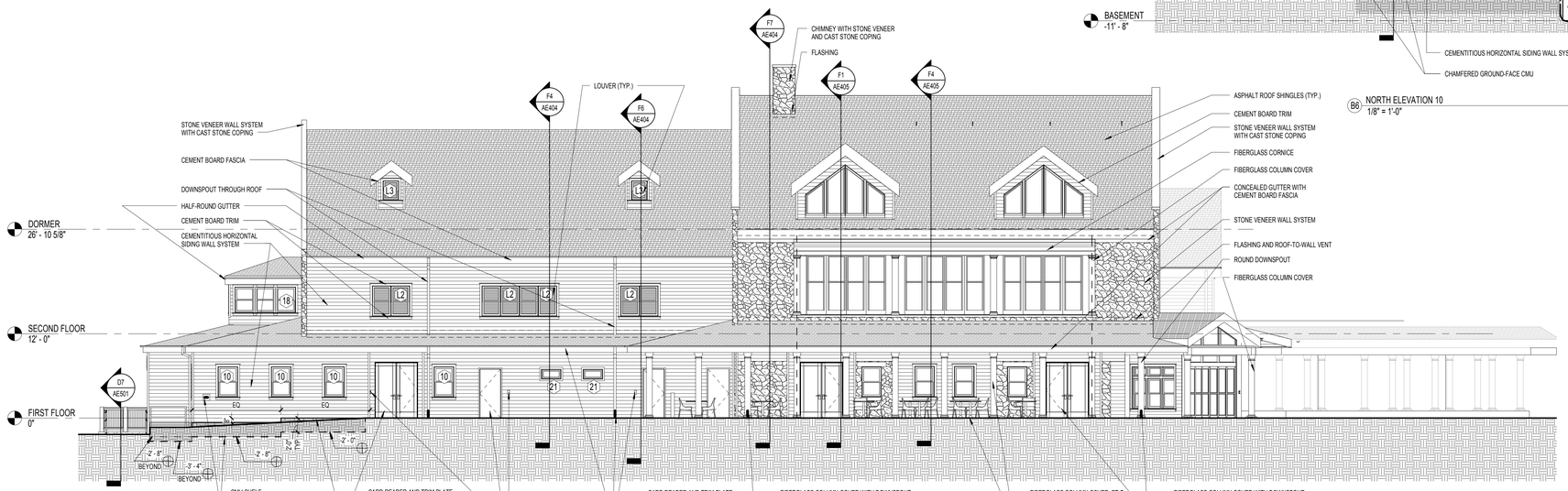
VA FORM 08-6231, OCT 1978

ELEVATION GENERAL NOTES

1. ALL EXTERIOR TRIM TO BE PT-7 WHERE FIBER CEMENT SIDING OCCURS. ALL EXTERIOR TRIM TO BE PT-6 WHERE STONE VENEER OCCURS U.N.O.
2. PRE-CAST TRIM TO OCCUR AT STONE VENEER.
3. ALL ANCILLARY TRIM (IE. CARD READER BACKPLATES, OUTLETS, ETC.) THAT OCCUR TO BE PAINTED TO MATCH FIELD COLOR.
4. TOP OF FINISHED FLOOR 0'-0" DATUM. DATUM = 559.50'.

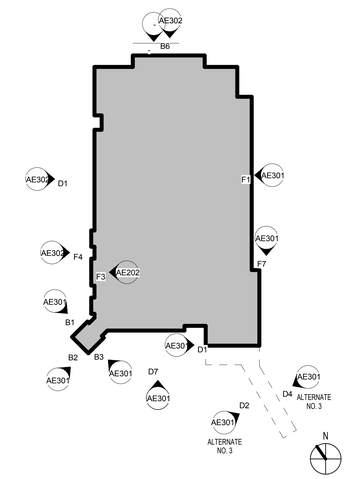


B6 NORTH ELEVATION 10
1/8" = 1'-0"



D1 WEST ELEVATION 11
1/8" = 1'-0"

F4 PATIO ELEVATION
1/8" = 1'-0"



FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer: Dewberry, 600 Parsippany Road, Suite 301, Parsippany, NJ 07054-3715, Tel (973) 739-9400, Fax (973) 730-9710

Structural Engineer: WZG, 180 W. Ridge Pike, Limerick, PA 19468, Tel (214) 329-5559

MEP Engineer: H.E. Lenz Company, 1407 Scalp Avenue, Johnstown, PA 15904, Tel (814) 269-9300, Fax (814) 269-9301

Environmental Consultant: SSM, 1047 North Park Road, P.O. Box 6307, Reading, PA 19610, Tel (610) 621-2000

Cost Estimator: International Consultants, Inc., 221 Chestnut Street, Suite 200, Philadelphia, PA 19106, Tel (215) 923-8888

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Project Number	Scale
3468	As indicated

Drawing Title: EXTERIOR ELEVATIONS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	JP	JJP

VA Project Number: 595-109

Building Number: 34

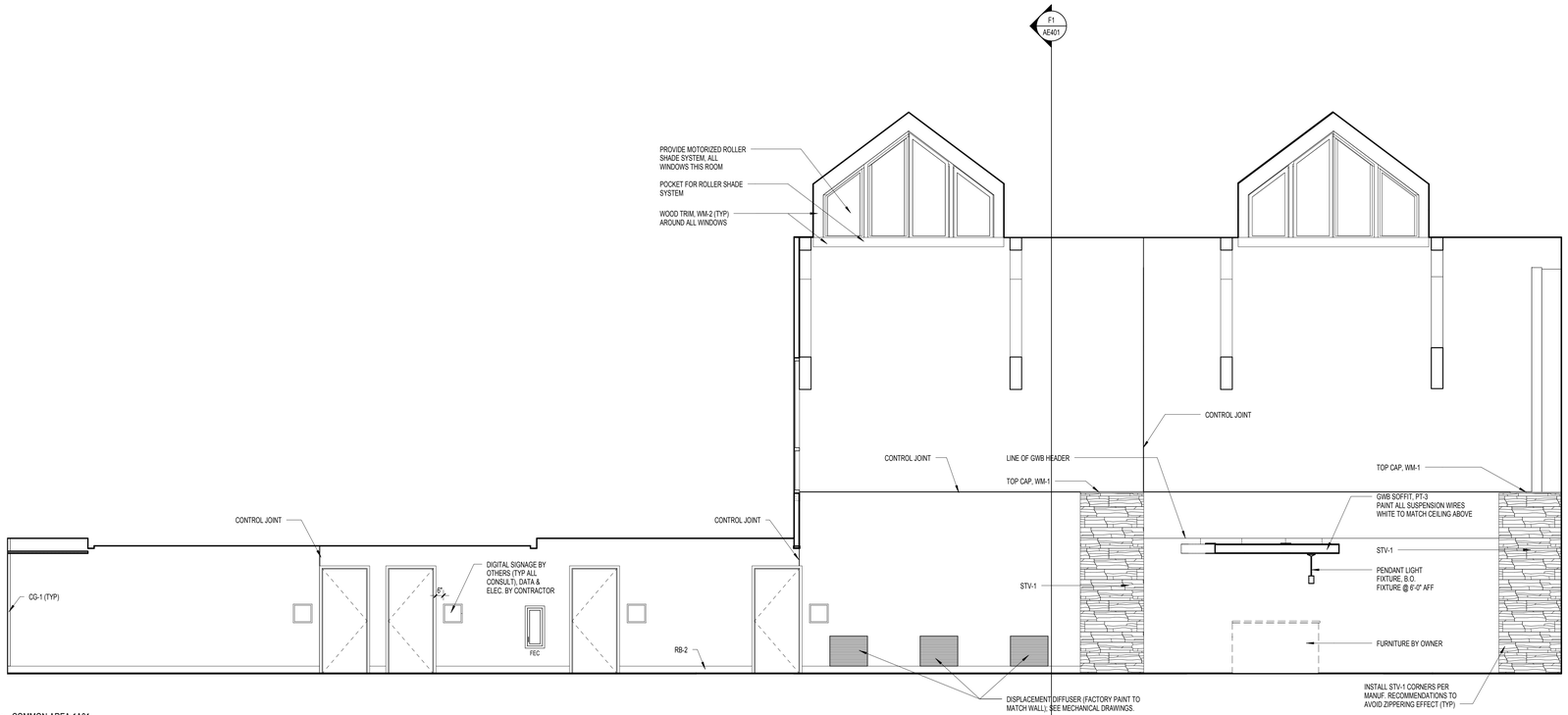
Drawing Number: AE302

Dwg. 46 of 123

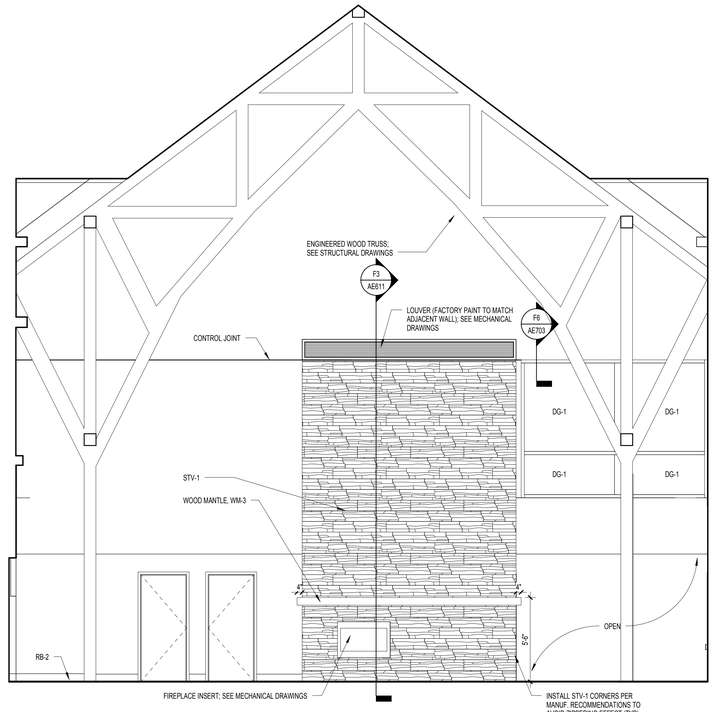
Office of Facilities Management

Department of Veterans Affairs

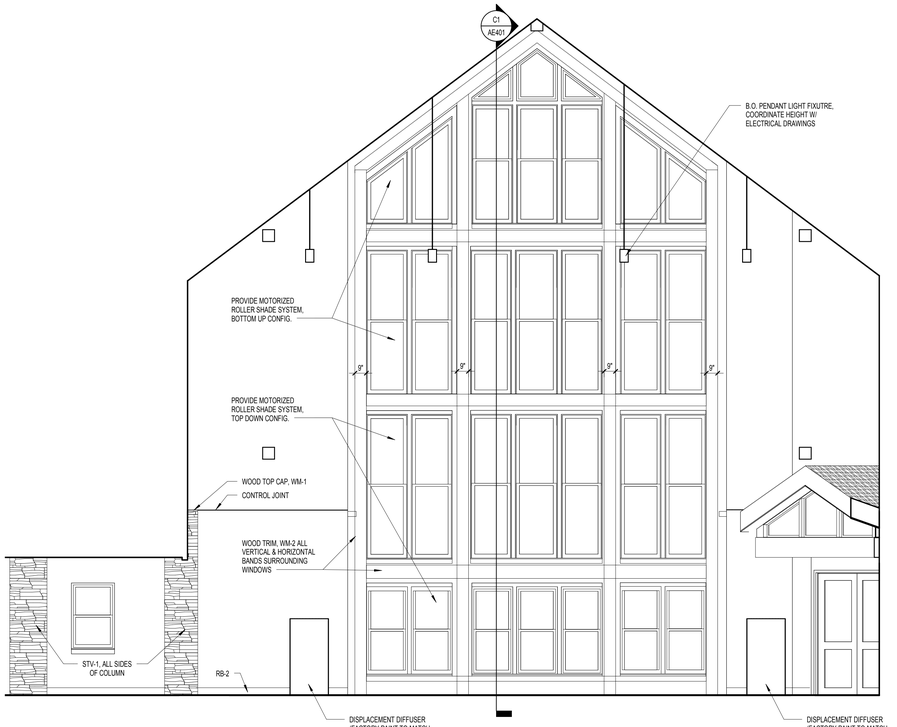
VA FORM 08-6231, OCT 1978



C1 COMMON AREA 1A01
1/4" = 1'-0"



C5 COMMON AREA 1A01
1/4" = 1'-0"



F1 COMMON AREA 1A01
1/4" = 1'-0"

F6 COMMON AREA WEST ELEVATION
1/4" = 1'-0"

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

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COMMONWEALTH OF PENNSYLVANIA
JOHN P. SCHMITT
No. RA-024611-E
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Project Number	Scale
3468	1/4" = 1'-0"

Drawing Title: INTERIOR ELEVATIONS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date: 07/27/2012 | Checked: EBC | Drawn: NS

VA Project Number: 595-109

Building Number: 34

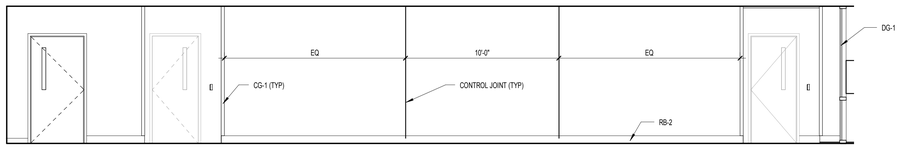
Drawing Number: AE303

Dwg. 47 of 123

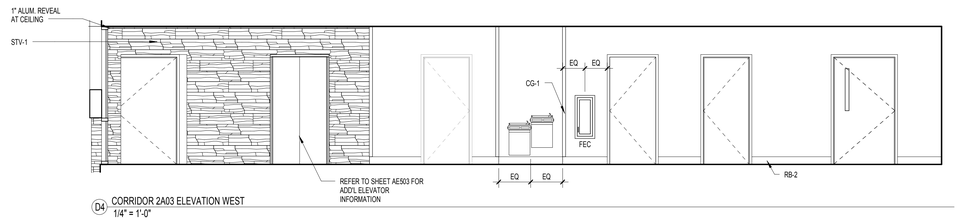
Office of Facilities Management

Department of Veterans Affairs

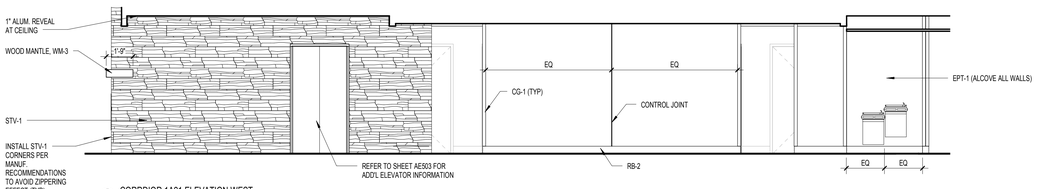
VA FORM 08-6231, OCT 1978



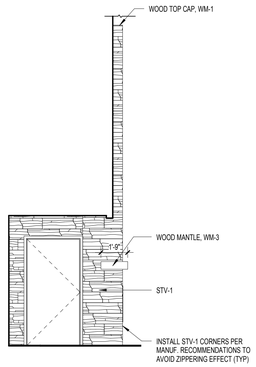
D1 CORRIDOR 2A03 ELEVATION EAST
1/4" = 1'-0"



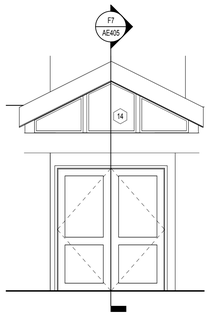
D4 CORRIDOR 2A03 ELEVATION WEST
1/4" = 1'-0"



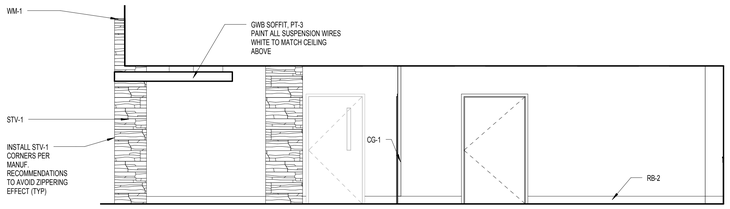
F1 CORRDIOR 1A21 ELEVATION WEST
1/4" = 1'-0"



F4 COMMON AREA 1A01
1/4" = 1'-0"



F6 VESTIBULE
1/4" = 1'-0"



F7 RECEPTION AREA
1/4" = 1'-0"

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

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MEP Engineer
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REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA

ARCHITECT:

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Project Number	Scale
3468	1/4" = 1'-0"

Drawing Title: INTERIOR ELEVATIONS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	EBC	NS

VA Project Number: 595-109

Building Number: 34

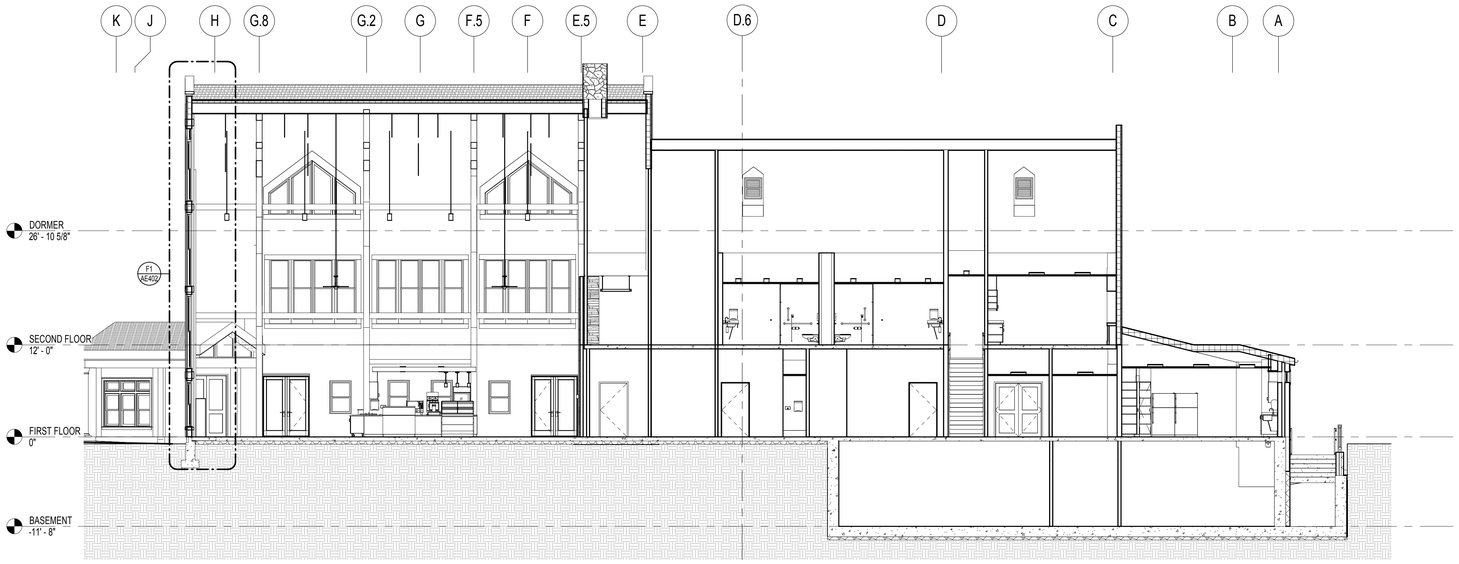
Drawing Number: AE304

Dwg. 48 of 123

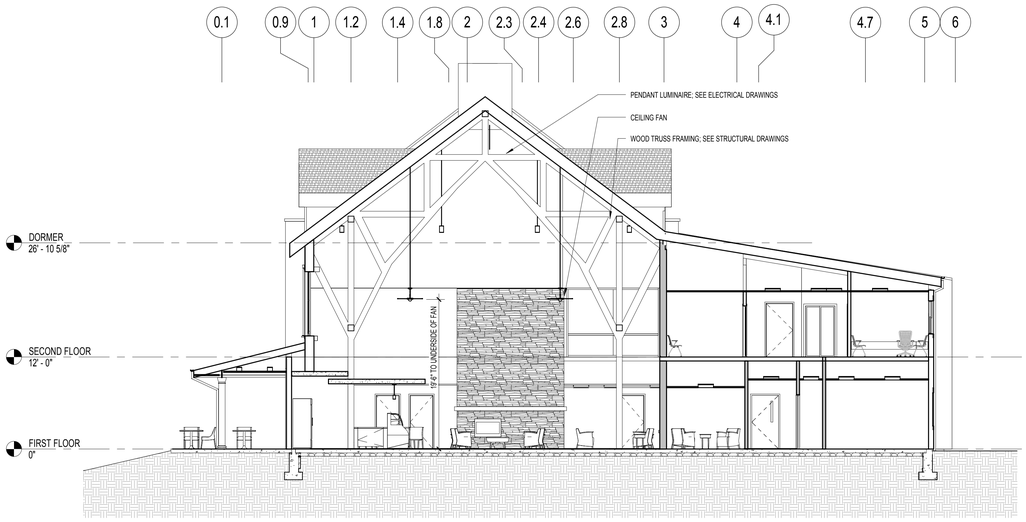
Office of Facilities Management

Department of Veterans Affairs

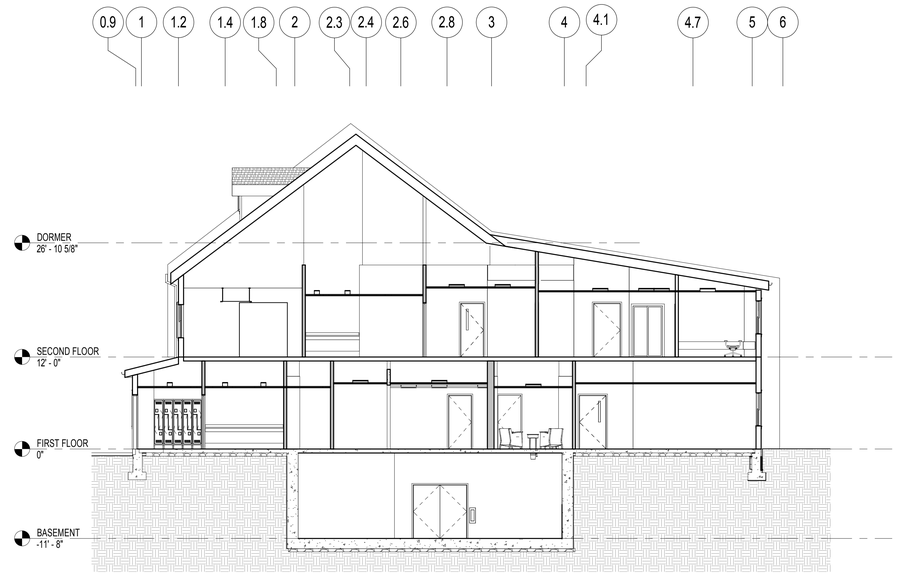
VA FORM 08-6231, OCT 1978



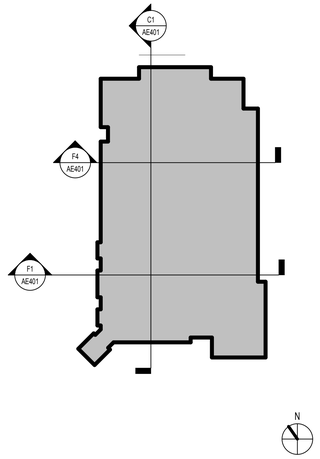
C1 SECTION NORTH/SOUTH LOOKING WEST
1/8" = 1'-0"



F1 SECTION EAST/WEST LOOKING NORTH 2
1/8" = 1'-0"



F4 SECTION EAST/WEST LOOKING NORTH
1/8" = 1'-0"



FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer	Structural Engineer	MEP Engineer	Environmental Consultant	Cost Estimator
Dewberry	WZG	H.E. LENZ COMPANY	SSM	International Consultants, Inc.
600 Parsippany Road, Suite 301 Parsippany, NJ 07054-3715 Tel (973) 739-9400 Fax (973) 730-9710	180 W. Ridge Pike Limerick, PA 19468 Tel (214) 329-5559	1407 Scalp Avenue Johnstown, PA 15904 Tel (814) 269-9300 Fax (814) 269-9301	1047 North Park Road, P.O. Box 6307 Reading, PA 19610 Tel (610) 621-2000	221 Chestnut Street, Suite 200 Philadelphia, PA 19106 Tel (215) 923-8888

REGISTERED ARCHITECT
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STATE OF PENNSYLVANIA
REGISTERED ARCHITECT
No. 04-0000

ARCHITECT:

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Project Number	Scale
3468	As indicated

Drawing Title: BUILDING SECTIONS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	EBC	NH

VA Project Number: 595-109

Building Number: 34

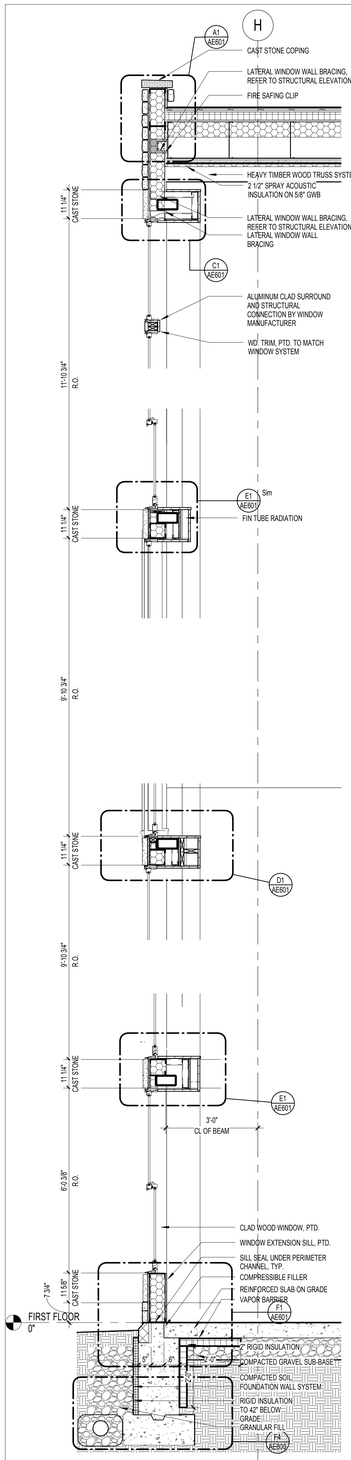
Drawing Number: AE401

Dwg. 49 of 123

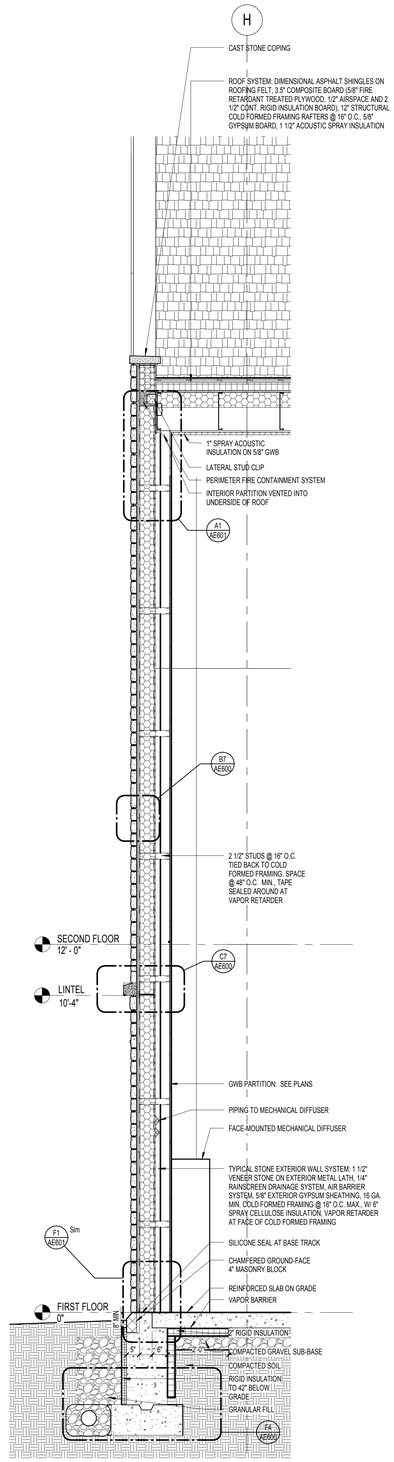
Office of Facilities Management

Department of Veterans Affairs

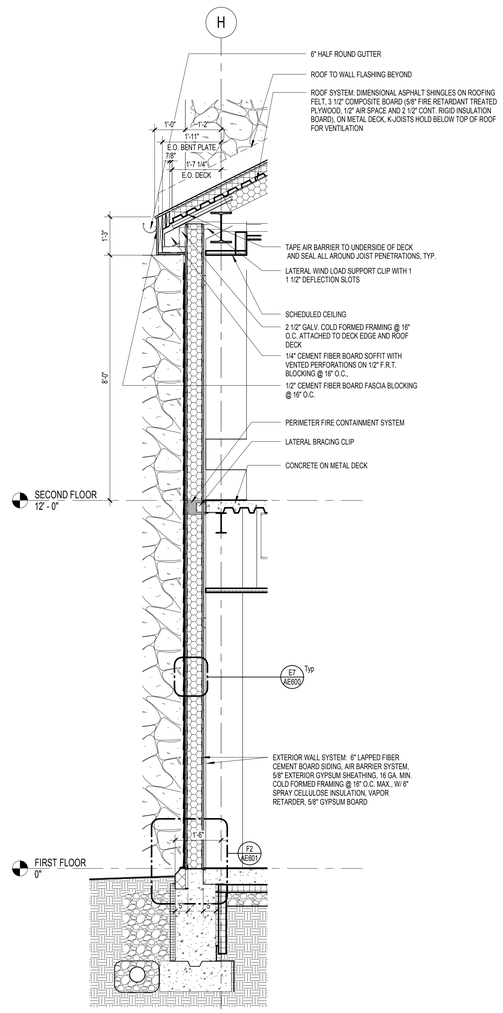
VA FORM 08-6231, OCT 1978



F1 SECTION @ LOBBY - BOTTOM
1/2" = 1'-0"



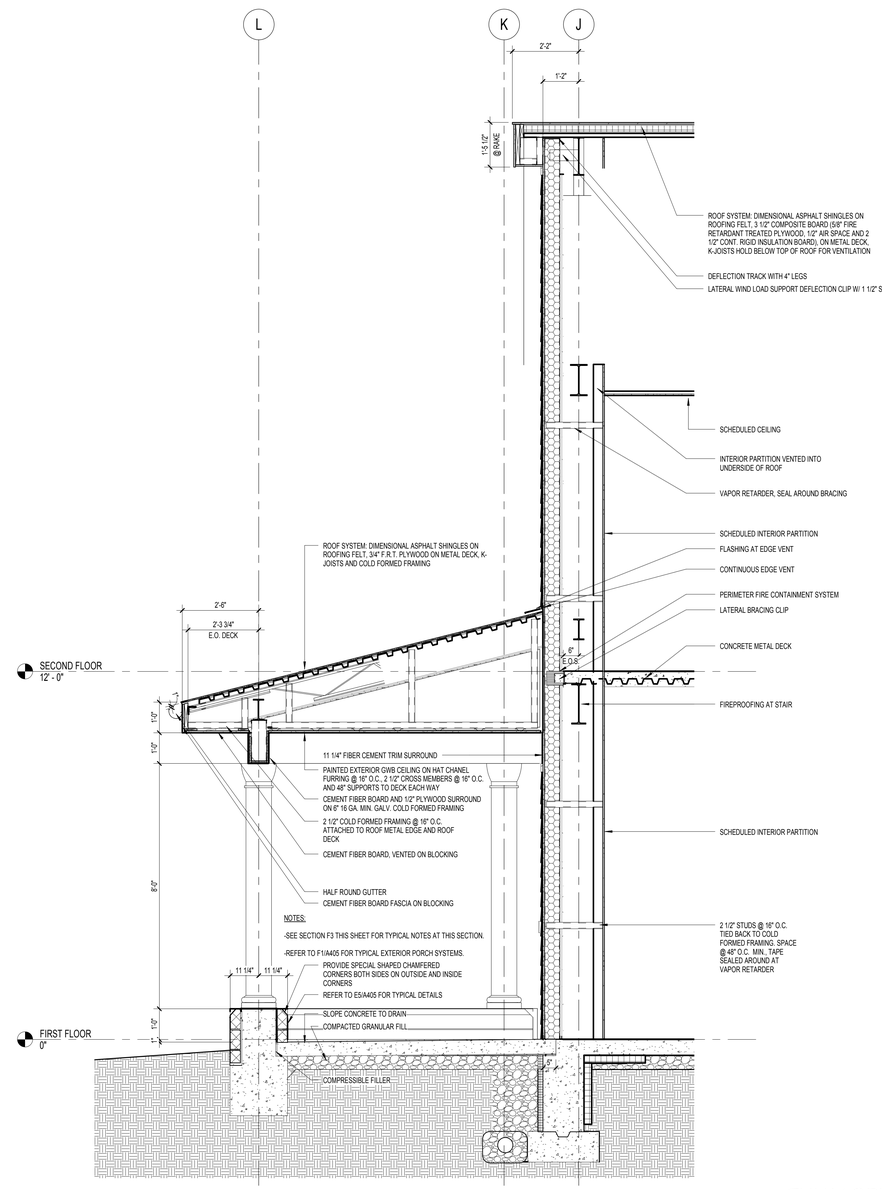
F2 SECTION @ SOUTH WALL PARAPET
1/2" = 1'-0"



F3 SECTION @ 2 STORY ROOF
1/2" = 1'-0"

WALL SECTIONS GENERAL NOTES

1. FOR TYPICAL NOTES, DIMENSIONS AND DETAIL REFERENCES, REFER TO F2/AE402. FOR THE TYPICAL STONE EXTERIOR WALL SYSTEM REFER TO F2/AE402 AND THE FIBER CEMENT SIDING SYSTEM REFER TO F3/AE402.
2. SPRAYED ON FIREPROOFING IS NOT SHOWN ON WALL SECTION DRAWINGS. FOR FIREPROOFING REQUIREMENTS AND LOCATION REFER TO THE LIFE SAFETY DRAWINGS. FIRE PROOFING IS ONLY REQUIRED AT RATED SHAFT WALLS AND STAIR STRUCTURAL BAYS.
3. ALL EXTERIOR STEEL TO BE GALVANIZED AND PAINTED.
4. ALL HORIZONTAL WINDOW DIMENSIONS ARE INDICATED ON SHEET AE702
5. ALL PERIMETER FIRE CONTAINMENT SYSTEMS TO BE TYPE CW S.1011, NO BATTS, UNLESS NOTED OTHERWISE.
6. FIRST FLOOR ELEVATION 0'-0" EQUALS SURVEYED DATUM 559.50'
7. ALL MISCELLANEOUS STRUCTURAL STEEL ANGLES TO BE 4" X 4" X ¼" UNLESS NOTED OTHERWISE.



F6 SECTION 2 @ STAIR 1A05
1/2" = 1'-0"

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer	Structural Engineer	MEP Engineer	Environmental Consultant	Cost Estimator
Dewberry	WZG	H.E. LENZ COMPANY	SSM	International Consultants, Inc.
600 Parsippany Road, Suite 301 Parsippany, NJ 07054-3715 Tel (973) 739-9400 Fax (973) 730-9710	180 W. Ridge Pike Limerick, PA 19468 Tel (214) 329-5559	1407 Scalp Avenue Johnstown, PA 15904 Tel (814) 269-9300 Fax (814) 269-9301	1047 North Park Road, P.O. Box 6307 Reading, PA 19610 Tel (610) 621-2000	221 Chestnut Street, Suite 200 Philadelphia, PA 19106 Tel (215) 923-8888

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Project Number	Scale
3468	As indicated

Drawing Title: WALL SECTIONS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	Checker	Author

VA Project Number: 595-109

Building Number: 34

Drawing Number: AE402

Dwg. 50 of 123

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

WALL SECTIONS GENERAL NOTES

1. FOR TYPICAL NOTES, DIMENSIONS AND DETAIL REFERENCES, REFER TO F2/AE402. FOR THE TYPICAL STONE EXTERIOR WALL SYSTEM REFER TO F2/AE402 AND THE FIBER CEMENT SIDING SYSTEM REFER TO F3/AE402.

2. SPRAYED ON FIREPROOFING IS NOT SHOWN ON WALL SECTION DRAWINGS. FOR FIREPROOFING REQUIREMENTS AND LOCATION REFER TO THE LIFE SAFETY DRAWINGS. FIRE PROOFING IS ONLY REQUIRED AT RATED SHAFT WALLS AND STAIR STRUCTURAL BAYS.

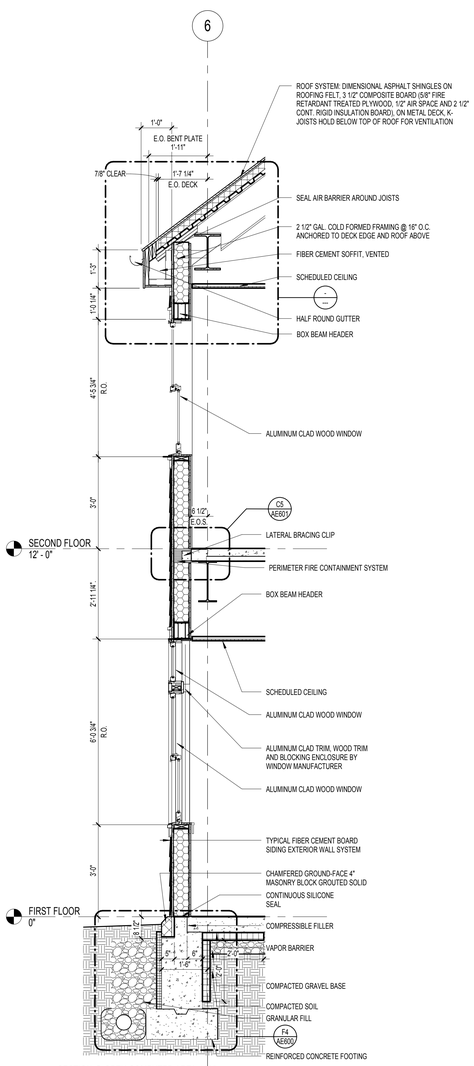
3. ALL EXTERIOR STEEL TO BE GALVANIZED AND PAINTED.

4. ALL HORIZONTAL WINDOW DIMENSIONS ARE INDICATED ON SHEET AE702

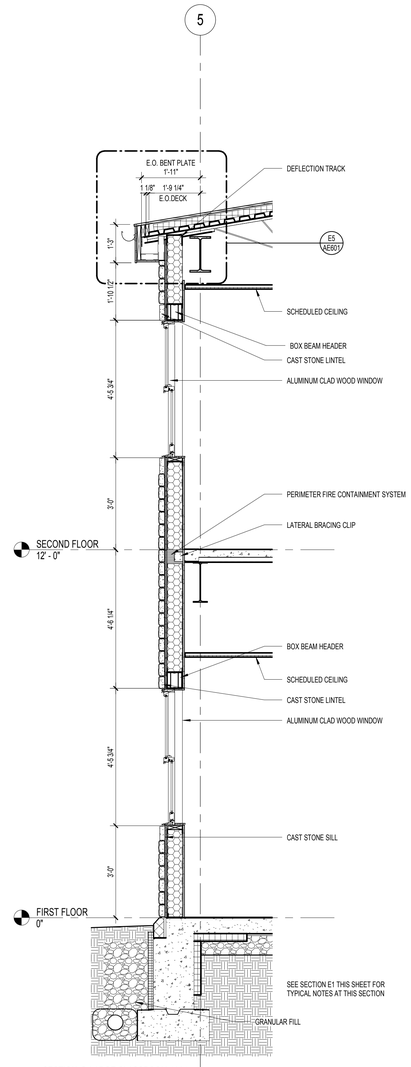
5. ALL PERIMETER FIRE CONTAINMENT SYSTEMS TO BE TYPE CW S.1011, NO BATTS, UNLESS NOTED OTHERWISE.

6. FIRST FLOOR ELEVATION 0'-0" EQUALS SURVEYED DATUM 559.50'

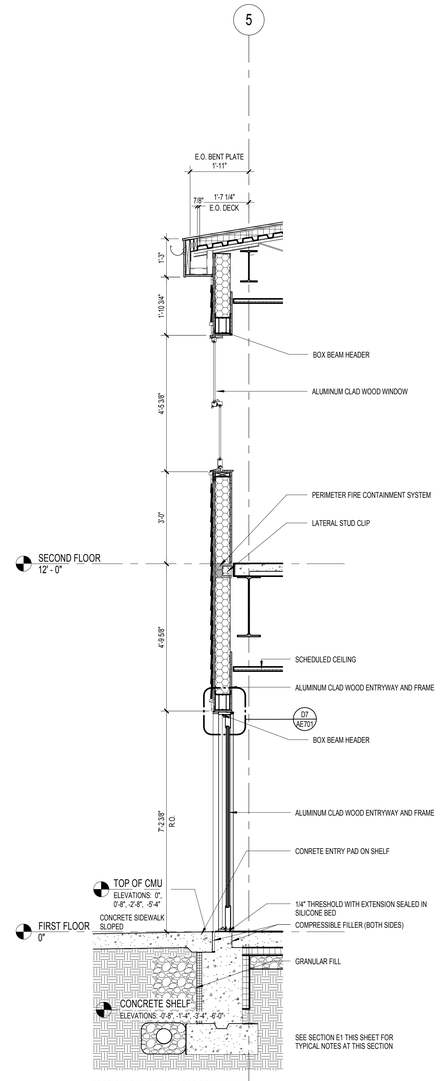
7. ALL MISCELLANEOUS STRUCTURAL STEEL ANGLES TO BE 4" X 4" X ¼" UNLESS NOTED OTHERWISE.



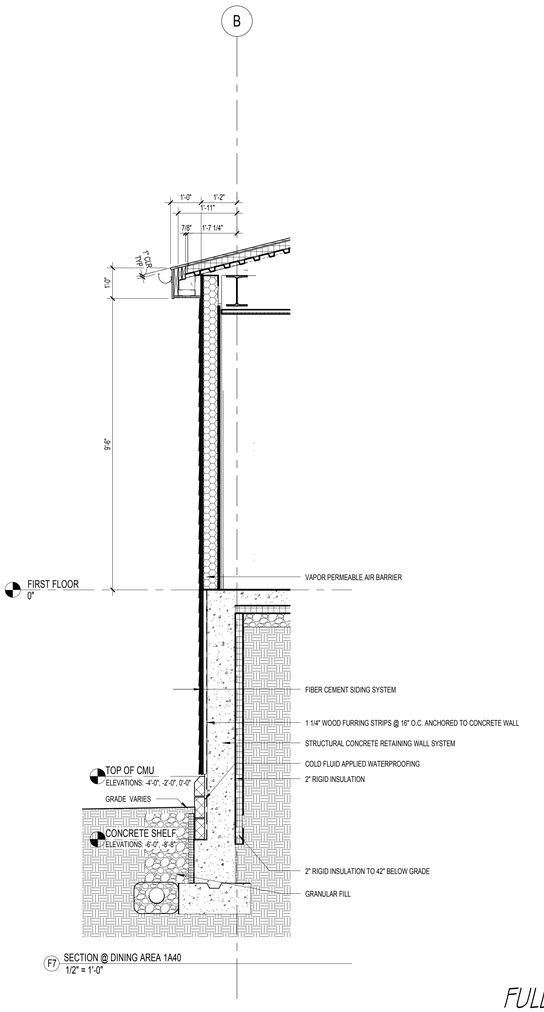
E1 SECTION @ OPEN COMPUTER AREA 1A02
1/2" = 1'-0"



E2 SECTION @ LARGE CLASSROOM 1A04
1/2" = 1'-0"



E5 SECTION @ LARGE CLASSROOM 1A37
1/2" = 1'-0"



F7 SECTION @ DINING AREA 1A40
1/2" = 1'-0"

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer: Dewberry — 600 Parsippany Road, Suite 301, Parsippany, NJ 07054-3715, Tel (973) 739-9400, Fax (973) 730-9710

Structural Engineer: WZG — 180 W. Ridge Pike, Limerick, PA 19468, Tel (214) 329-5559

MEP Engineer: H.E. Lenz Company — 1407 Scalp Avenue, Johnstown, PA 15904, Tel (814) 269-9300, Fax (814) 269-9301

Environmental Consultant: SSM — 1047 North Park Road, P.O. Box 6307, Reading, PA 19610, Tel (610) 621-2000

Cost Estimator: International Consultants, Inc. — 221 Chestnut Street, Suite 200, Philadelphia, PA 19106, Tel (215) 923-8888

REGISTERED ARCHITECT — COMMONWEALTH OF PENNSYLVANIA — JAMES PETER PHILLIPS — REGISTERED ARCHITECT — 047-000-0-0-0

ARCHITECT: ARRAY — healthcare facilities solutions

2520 Renaissance Boulevard, Suite 110
King of Prussia, PA 19406

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www.arrayhfs.com

Project Number	Scale
3468	As indicated

Drawing Title: WALL SECTIONS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	JP	JP

VA Project Number: 595-109

Building Number: 34

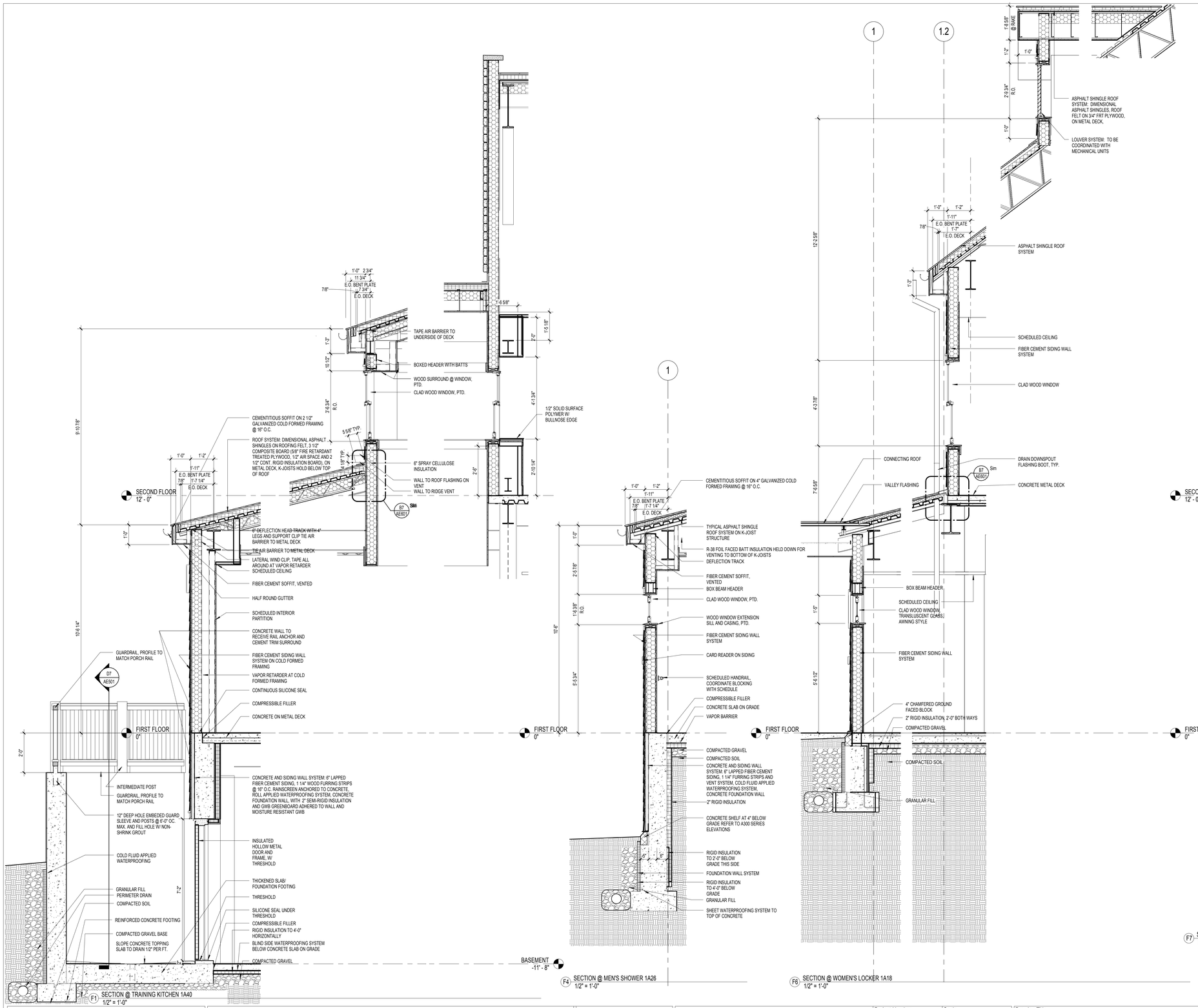
Drawing Number: AE403

Dwg. 51 of 123

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



F1 SECTION @ TRAINING KITCHEN 1A40
1/2" = 1'-0"

F4 SECTION @ MEN'S SHOWER 1A26
1/2" = 1'-0"

F6 SECTION @ WOMEN'S LOCKER 1A18
1/2" = 1'-0"

F7 SECTION @ COMMONS AREA NEAR CAFE STORAGE 1A10
1/2" = 1'-0"

WALL SECTIONS GENERAL NOTES

1. FOR TYPICAL NOTES, DIMENSIONS AND DETAIL REFERENCES, REFER TO F2/AE402. FOR THE TYPICAL STONE EXTERIOR WALL SYSTEM REFER TO F2/AE402 AND THE FIBER CEMENT SIDING SYSTEM REFER TO F3/AE402.
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3. ALL EXTERIOR STEEL TO BE GALVANIZED AND PAINTED.
4. ALL HORIZONTAL WINDOW DIMENSIONS ARE INDICATED ON SHEET AE702
5. ALL PERIMETER FIRE CONTAINMENT SYSTEMS TO BE TYPE CW S.1011, NO BATTS, UNLESS NOTED OTHERWISE.
6. FIRST FLOOR ELEVATION 0'-0" EQUALS SURVEYED DATUM 559.50'
7. ALL MISCELLANEOUS STRUCTURAL STEEL ANGLES TO BE 4" X 4" X ¼" UNLESS NOTED OTHERWISE.

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer: Dewberry, 600 Parsippany Road, Suite 301, Parsippany, NJ 07054-3715, Tel (973) 739-9400, Fax (973) 739-9710

Structural Engineer: WZG, 180 W. Ridge Pike, Limerick, PA 19468, Tel (214) 329-5559

MEP Engineer: H.E. Lenz Company, 1407 Scalp Avenue, Johnstown, PA 15904, Tel (814) 269-9300, Fax (814) 269-9301

Environmental Consultant: SSM, 1047 North Park Road, P.O. Box 6307, Reading, PA 19610, Tel (610) 621-2000

Cost Estimator: International Consultants, Inc., 221 Chestnut Street, Suite 200, Philadelphia, PA 19106, Tel (215) 923-8888

REGISTERED ARCHITECT, COMMONWEALTH OF PENNSYLVANIA

ARCHITECT:

ARRAY
healthcare facilities solutions

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Project Number	Scale
3468	As indicated

Approved: Project Director

Drawing Title: WALL SECTIONS

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date: 07/27/2012 | Checked: JP | Drawn: JP

VA Project Number: 595-109

Building Number: 34

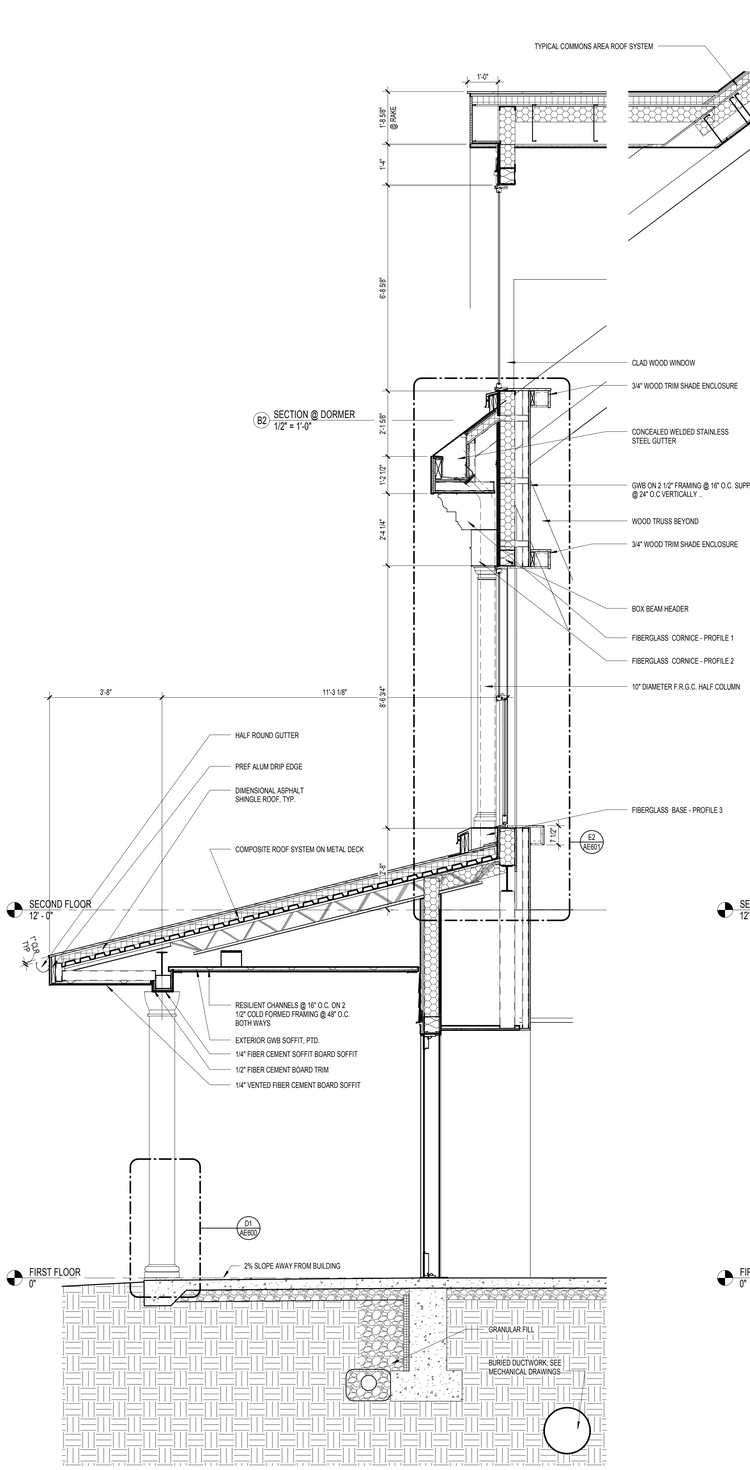
Drawing Number: AE404

Dwg. 52 of 123

Office of Facilities Management

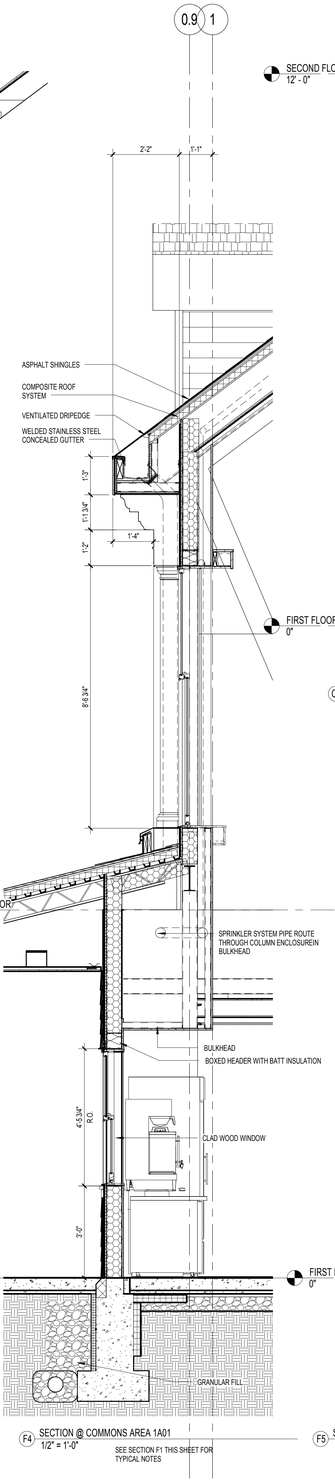
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



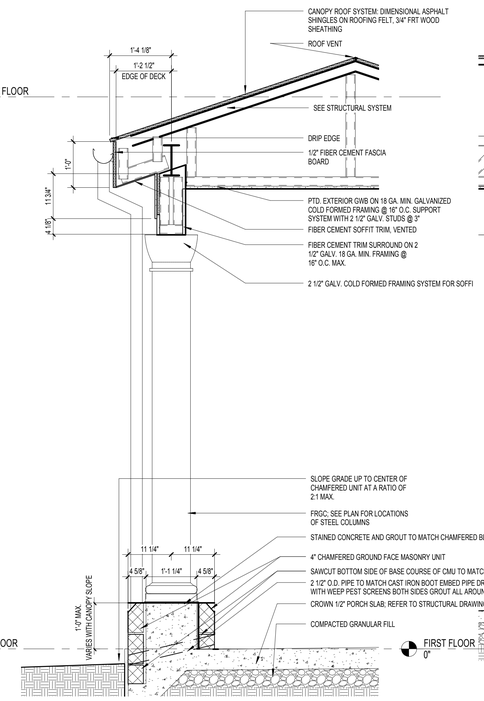
B2 SECTION @ DORMER
1/2" = 1'-0"

F1 SECTION @ CAFE PATIO
1/2" = 1'-0"

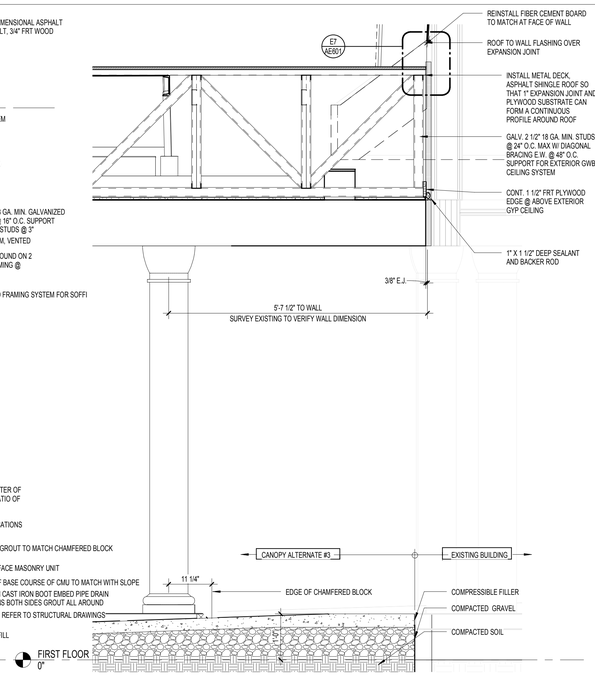


F4 SECTION @ COMMONS AREA 1A01
1/2" = 1'-0"

SEE SECTION F1 THIS SHEET FOR TYPICAL NOTES



C5 SECTION THROUGH CONNECTOR
3/4" = 1'-0"



1 SECTION THROUGH CONNECTOR AT EXISTING BUILDING
3/4" = 1'-0"

WALL SECTIONS GENERAL NOTES

1. FOR TYPICAL NOTES, DIMENSIONS AND DETAIL REFERENCES, REFER TO F2/AE402. FOR THE TYPICAL STONE EXTERIOR WALL SYSTEM REFER TO F2/AE402 AND THE FIBER CEMENT SIDING SYSTEM REFER TO F3/AE402.

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3. ALL EXTERIOR STEEL TO BE GALVANIZED AND PAINTED.

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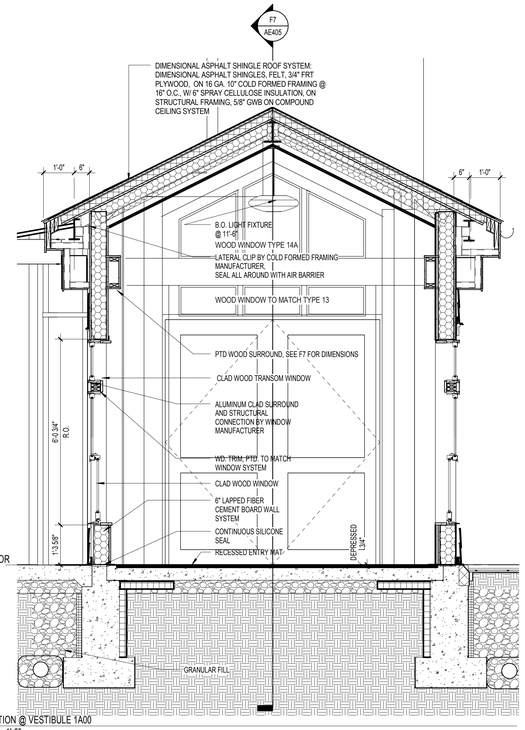
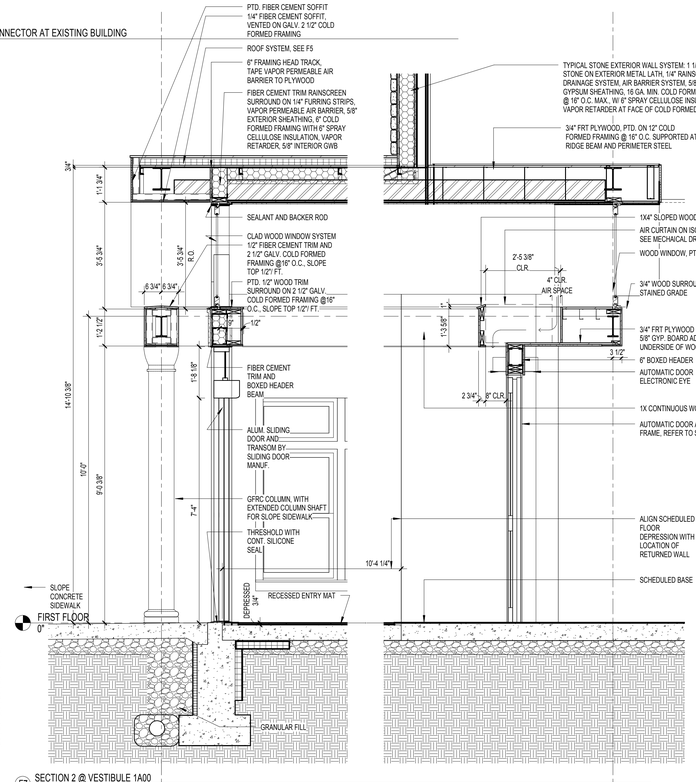
7. ALL MISCELLANEOUS STRUCTURAL STEEL ANGLES TO BE 4" X 4" X ¼" UNLESS NOTED OTHERWISE.



F5 SECTION @ VESTIBULE 1A00
1/2" = 1'-0"



F7 SECTION 2 @ VESTIBULE 1A00
1/2" = 1'-0"

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer	Structural Engineer	MEP Engineer	Environmental Consultant	Cost Estimator
Dewberry	WZG	H.F. LENZ COMPANY	SSM	International Consultants, Inc.
600 Parsippany Road, Suite 301 Parsippany, NJ 07054-3715 Tel (973) 739-9400 Fax (973) 730-9710	180 W. Ridge Pike Limerick, PA 19468 Tel (214) 329-5559	1407 Scalp Avenue Johnstown, PA 15904 Tel (814) 269-9300 Fax (814) 269-9301	1047 North Park Road, P.O. Box 6307 Reading, PA 19610 Tel (610)/621-2000	221 Chestnut Street, Suite 200 Philadelphia, PA 19106 Tel (215) 923-8888

REGISTERED ARCHITECT PENNSYLVANIA

ARCHITECT:

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www.arrayhfs.com

Project Number	Scale
3468	As indicated

Drawing Title: WALL SECTIONS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	EBC	NH

VA Project Number: 595-109

Building Number: 34

Drawing Number: AE405

Dwg. 53 of 123

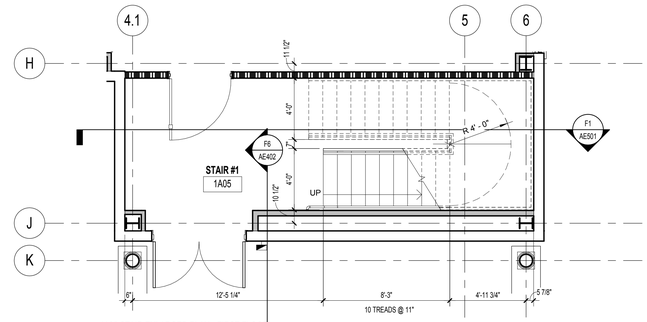
Office of Facilities Management

Department of Veterans Affairs

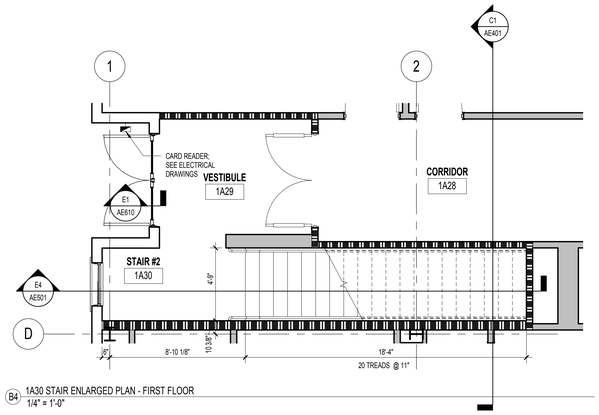
VA FORM 08-6231, OCT 1978

STAIR GENERAL NOTES

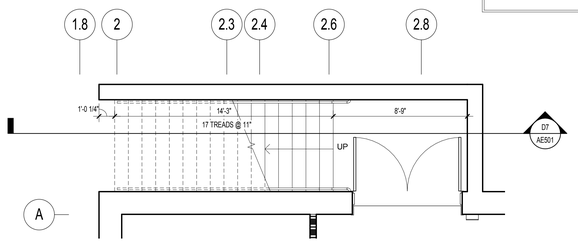
1. SEE DRAWING A502 FOR TYPICAL STAIR NOTES, DIMENSIONS AND DETAIL REFERENCES.
2. PROVIDE SPRAYED FIREPROOFING UL# X723 AT STRUCTURAL SUPPORTING MEMBERS OR STRUCTURAL MEMBERS WITHIN RATED ENCLOSURES.



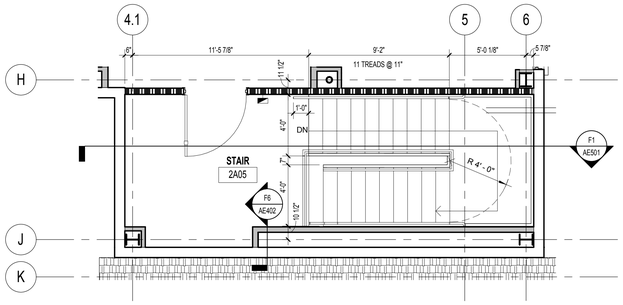
B1 1A05 STAIR ENLARGED PLAN - FIRST FLOOR
1/4" = 1'-0"



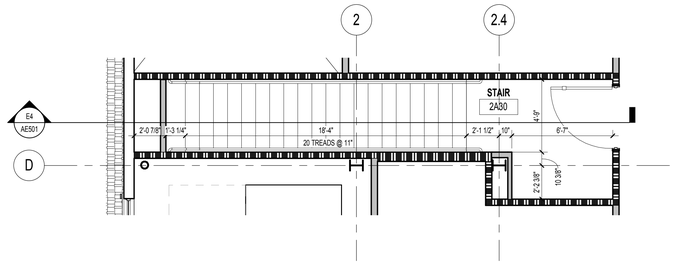
B4 1A30 STAIR ENLARGED PLAN - FIRST FLOOR
1/4" = 1'-0"



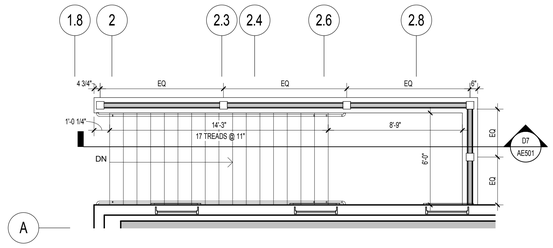
B7 EXTERIOR STAIRS AT BASEMENT
1/4" = 1'-0"



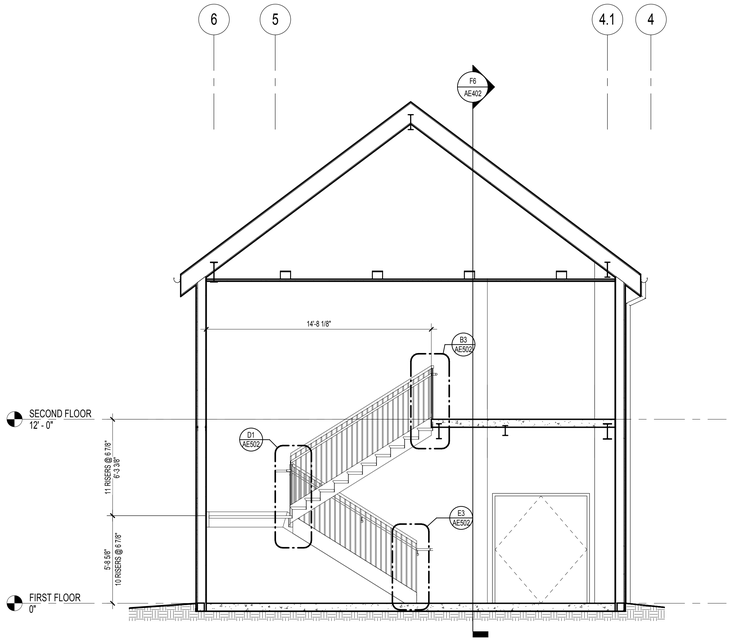
C1 2A05 STAIR ENLARGED PLAN - SECOND FLOOR
1/4" = 1'-0"



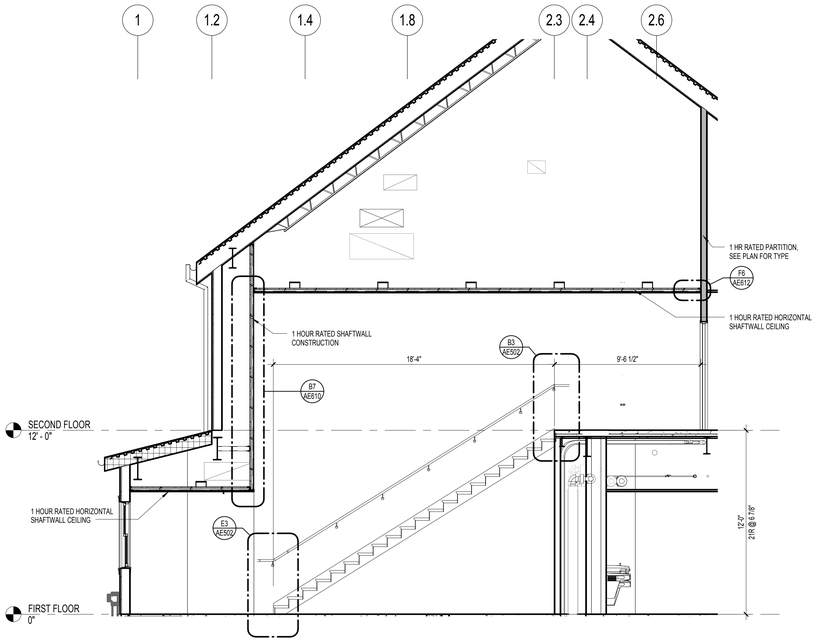
C4 2A30 STAIR ENLARGED PLAN - SECOND FLOOR
1/4" = 1'-0"



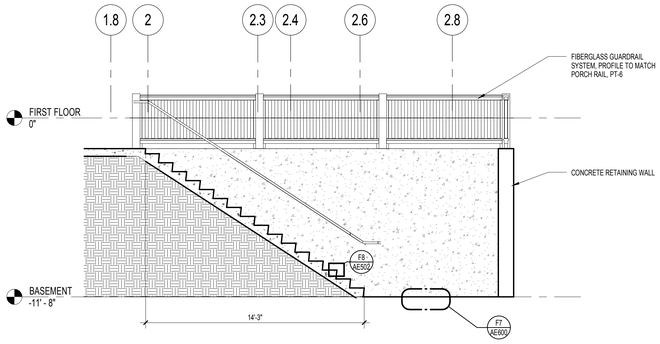
C7 EXTERIOR STAIRS AT FIRST FLOOR
1/4" = 1'-0"



F1 STAIR A05 SECTION
1/4" = 1'-0"



E4 STAIR A30 SECTION
1/4" = 1'-0"



D7 EXTERIOR STAIR SECTION
1/4" = 1'-0"

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer: Dewberry, 600 Parsippany Road, Suite 301, Parsippany, NJ 07054-3715, Tel (973) 739-9400, Fax (973) 730-9710

Structural Engineer: WZG, 180 W. Ridge Pike, Limerick, PA 19468, Tel (214) 329-5559

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Cost Estimator: International Consultants, Inc., 221 Chestnut Street, Suite 200, Philadelphia, PA 19106, Tel (215) 923-8888

ARCHITECT:

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healthcare facilities solutions

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www.arrayhfs.com

Project Number	Scale
3468	As indicated

Drawing Title: STAIR ENLARGED PLANS, SECTIONS, & DETAILS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	EBC	NH

VA Project Number: 595-109

Building Number: 34

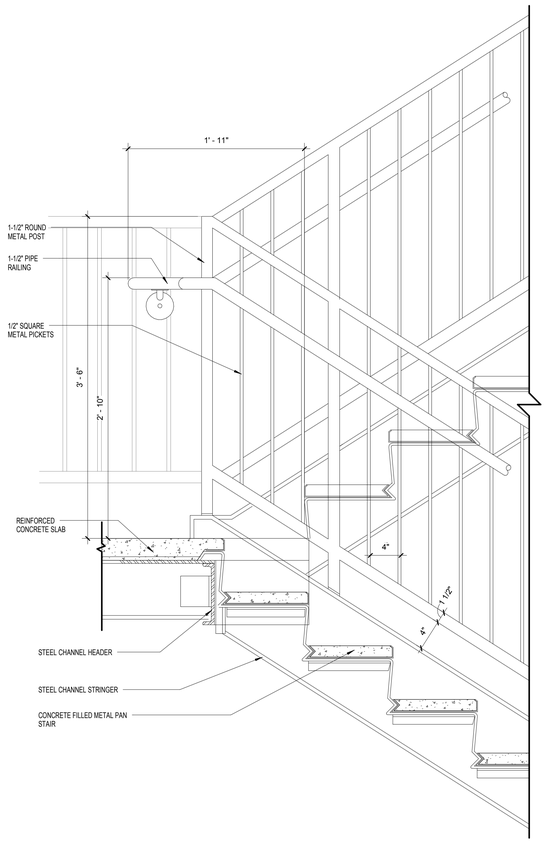
Drawing Number: AE501

Dwg. 54 of 123

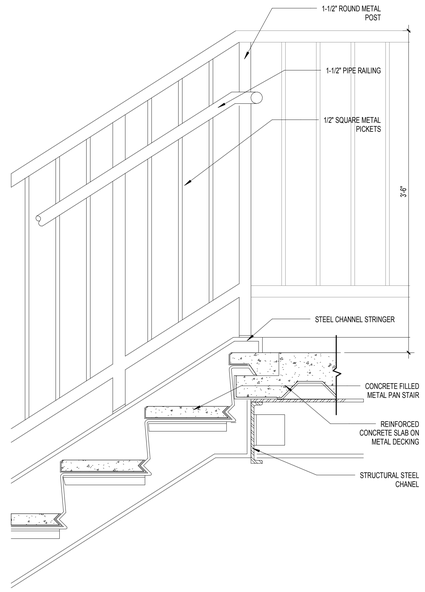
Office of Facilities Management

Department of Veterans Affairs

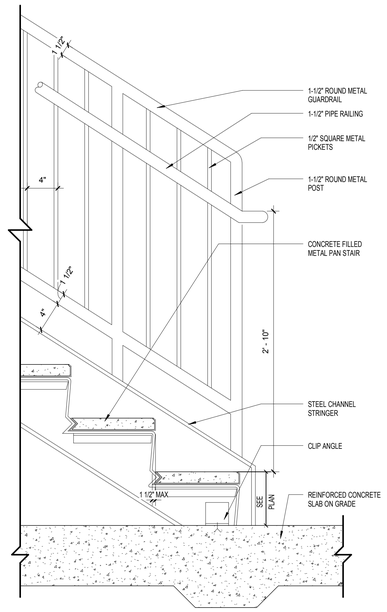
VA FORM 08-6231, OCT 1978



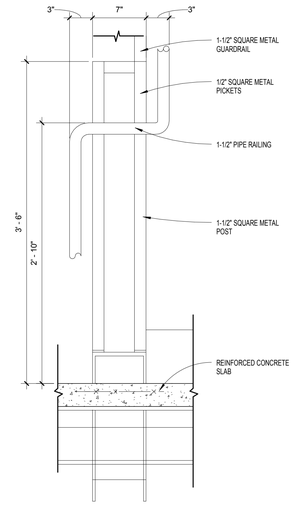
D1 STAIR INTERMEDIATE LANDING DETAIL
1 1/2" = 1'-0"



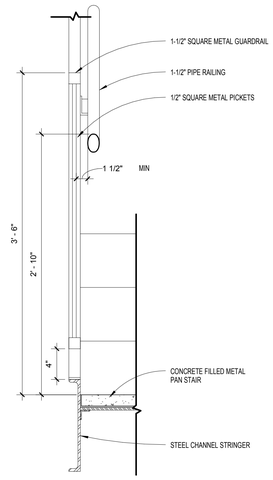
B3 TYPICAL STAIR LANDING AT TOP
1 1/2" = 1'-0"



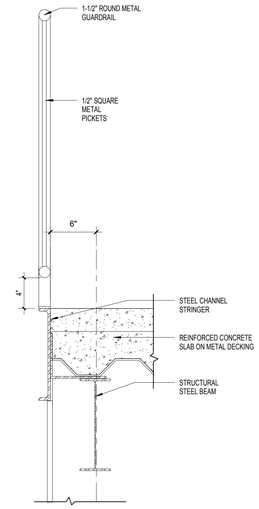
E3 TYPICAL STAIR BASE LANDING DETAIL
1 1/2" = 1'-0"



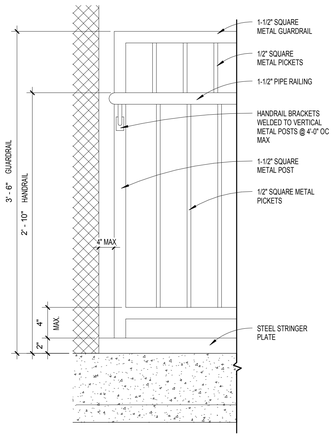
B5 RAILING INTERMEDIATE LANDING DETAIL
1 1/2" = 1'-0"



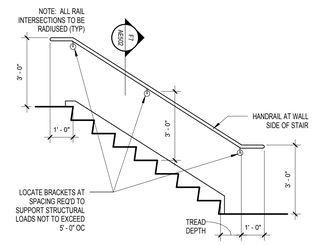
B7 STAIR STRINGER DETAIL
1 1/2" = 1'-0"



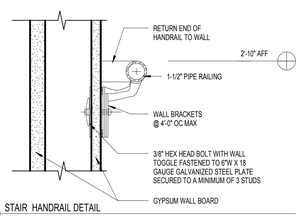
B8 STAIR LANDING DETAIL
1 1/2" = 1'-0"



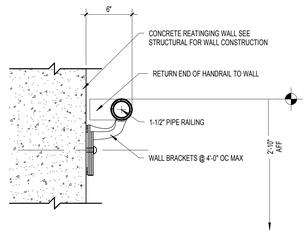
D5 EXTERIOR STAIR LANDING BALCONY
1 1/2" = 1'-0"



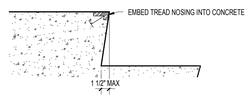
D7 STAIR RAILING AT WALL
3/8" = 1'-0"



F5 STAIR HANDRAIL DETAIL
3" = 1'-0"



F7 SECTION @ BASEMENT STAIR RAILING
1 1/2" = 1'-0"



F8 TREAD DETAIL
1 1/2" = 1'-0"

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer: Dewberry, 600 Parsippany Road, Suite 301, Parsippany, NJ 07054-3715, Tel (973) 739-9400, Fax (973) 730-9710

Structural Engineer: WZG, 180 W. Ridge Pike, Limerick, PA 19468, Tel (214) 329-5559

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REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA

ARCHITECT:

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www.arrayhfs.com

Project Number	Scale
3468	As indicated

Drawing Title: STAIR DETAILS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	EBC	EBC

VA Project Number: 595-109

Building Number: 34

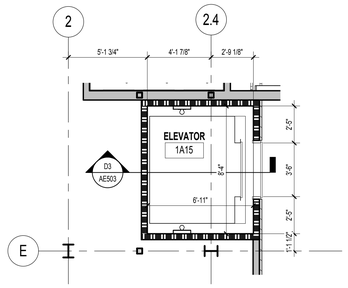
Drawing Number: AE502

Dwg. 55 of 123

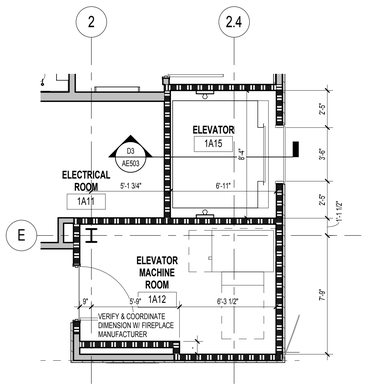
Office of Facilities Management

Department of Veterans Affairs

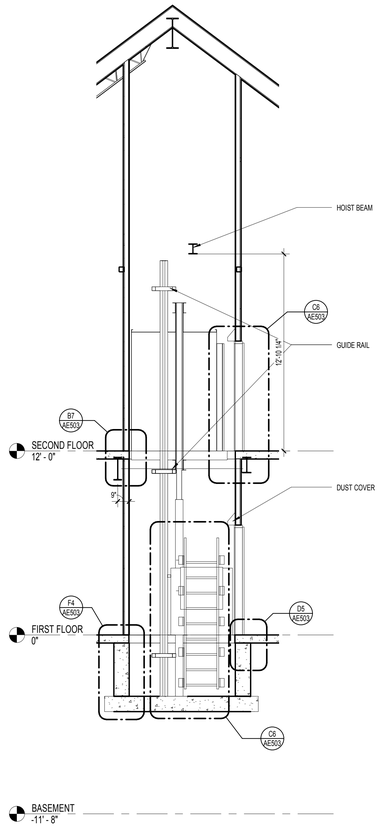
VA FORM 08-6231, OCT 1978



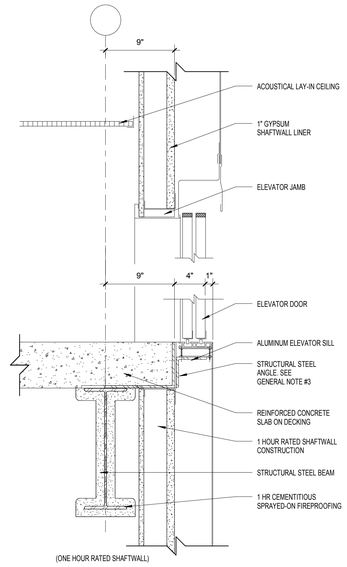
B1 SECOND FLOOR ELEVATOR ENLARGED PLAN
1/4" = 1'-0"



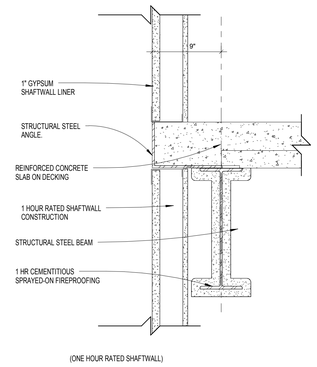
D1 FIRST FLOOR ELEVATOR ENLARGED PLAN
1/4" = 1'-0"



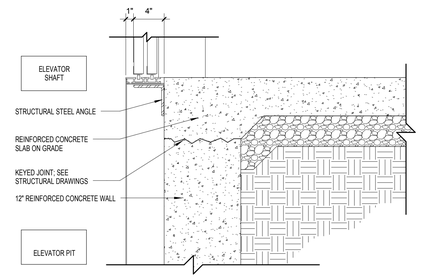
D3 ELEVATOR SECTION 02
1/4" = 1'-0"



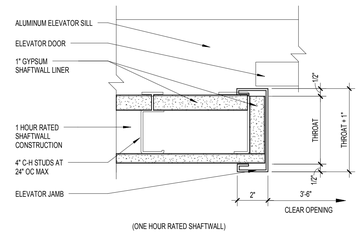
B5 ELEVATOR HEAD AND SILL DETAIL
1 1/2" = 1'-0"



B7 ELEVATOR EDGE OF SLAB DETAIL
1 1/2" = 1'-0"



D5 SILL DETAIL FIRST FLOOR
1 1/2" = 1'-0"



D7 ELEVATOR JAMB DETAIL
3" = 1'-0"

ELEVATOR GENERAL NOTES

1. CLEAR AND PLUMB HOIST WAY WITH VARIATIONS NOT EXCEEDING 1/2" AT ANY POINT.

2. CONTINUOUS ANGLE SUPPORT SHALL BE PROVIDED UNDER THE ENTRANCE SILL FOR THE ENTIRE WIDTH OF THE HOIST WAY, WITH RECESSES 2" BELOW FINISHED FLOOR AND NOT MORE THAN 1" FROM THE PLUMB LINE FOR THE SILL NOSE, WITH GROUTING UNDER THE SILL AFTER INSTALLATION, UNLESS OTHERWISE REQUIRED BY ELEVATOR MANUFACTURER.

3. ANY RECESSES, BLOCKOUTS AND CUTOUTS THROUGH WALLS, TO ACCOMMODATE DOOR OPERATING EQUIPMENT, DOORS, SILLS AND SIGNAL OPERATING EQUIPMENT SHALL BE PATCHED AND FINISHED AS REQUIRED TO MAINTAIN HOIST WAY FIRE RATING.

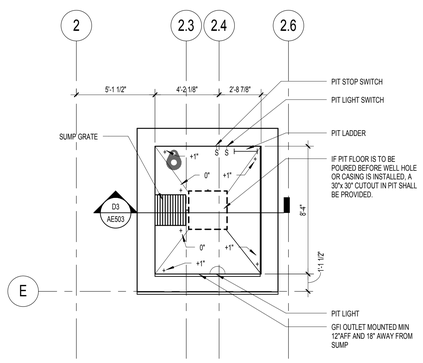
4. IN ELEVATOR EQUIPMENT ROOM PATCHING OF WALL AND FLOOR POCKETS SHALL BE CONSTRUCTED AFTER SUPPORTS AND MACHINERY ARE IN POSITION. ELEVATOR EQUIPMENT ROOM FLOOR SLABS SHALL NOT BE INSTALLED OVER THE HOIST WAY UNTIL THE ELEVATOR MACHINERY AND SUPPORTS ARE SET IN POSITION.

5. EQUIPMENT ROOM AND MACHINERY SHALL BE SEALED AND ENCLOSED DURING FIREPROOFING TO PROTECT THEM FROM FIREPROOFING MATERIALS.

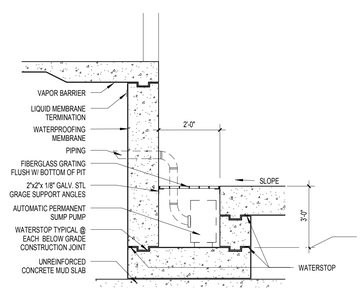
6. PROVIDE STRUCTURAL STEEL ELEVATOR SEPARATION BEAMS AT EACH FLOOR LEVEL AND ONE AT EACH INTERMEDIATE FLOOR LEVEL.

7. FIRE EXTINGUISHER IN ACCORDANCE WITH NFPA10 SHALL BE PROVIDED IN THE ELEVATOR EQUIPMENT ROOM.

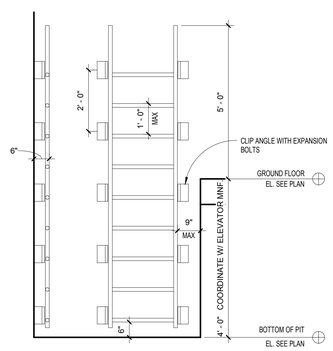
8. PROVIDE SPRAYED FIREPROOFING UL# X723 AT STRUCTURAL SUPPORTING MEMBERS OR STRUCTURAL MEMBERS WITHIN RATED ENCLOSURES.



F1 ELEVATOR PIT ENLARGED PLAN
1/4" = 1'-0"



F4 PIT SECTION @ SUMP WITH POSITIVE SIDE WATERPROOFING
1/2" = 1'-0"



C6 ELEVATOR PIT LADDER ELEVATION
1/2" = 1'-0"

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer	Structural Engineer	MEP Engineer	Environmental Consultant	Cost Estimator
Dewberry	WZG	H.E. LENZ COMPANY	SSM	International Consultants, Inc.
600 Parsippany Road, Suite 301 Parsippany, NJ 07054-3715 Tel (973) 739-9400 Fax (973) 730-9710	180 W. Ridge Pike Limerick, PA 19468 Tel (214) 329-5559	1407 Scalp Avenue Johnstown, PA 15904 Tel (814) 269-9300 Fax (814) 269-9301	1047 North Park Road, P.O. Box 6307 Reading, PA 19610 Tel (610) 621-2000	221 Chestnut Street, Suite 200 Philadelphia, PA 19106 Tel (215) 923-8888

REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA JOHN VINCENT JR. III

ARCHITECT:

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healthcare facilities solutions

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Project Number	Scale
3468	As indicated

Drawing Title: ELEVATOR ENLARGED PLANS, SECTION, & DETAILS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	EBC	NH

VA Project Number: 595-109

Building Number: 34

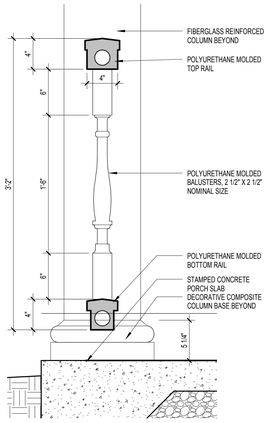
Drawing Number: AE503

Dwg. 56 of 123

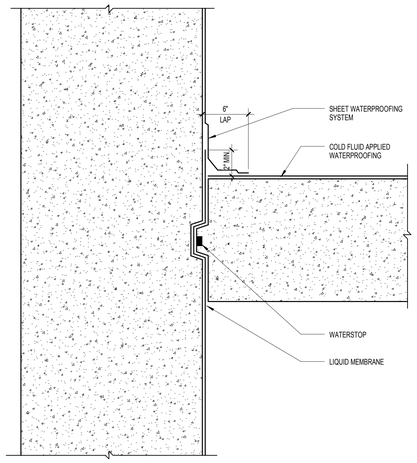
Office of Facilities Management

Department of Veterans Affairs

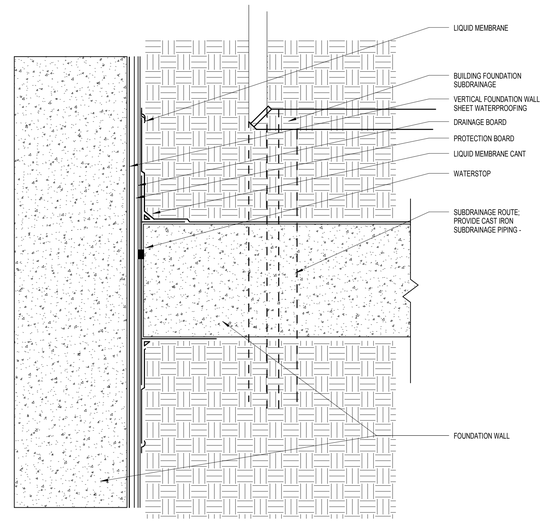
VA FORM 08-6231, OCT 1978



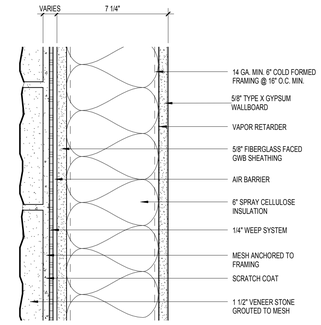
D1 SECTION DETAIL AT RAIL
1 1/2" = 1'-0"



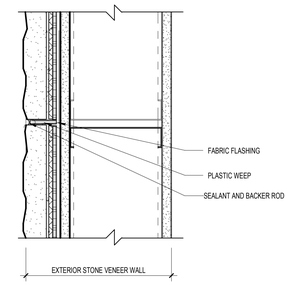
D2 PLAN DETAIL - WATERPROOFING AT FOOTING INTERSECTION
1 1/2" = 1'-0"



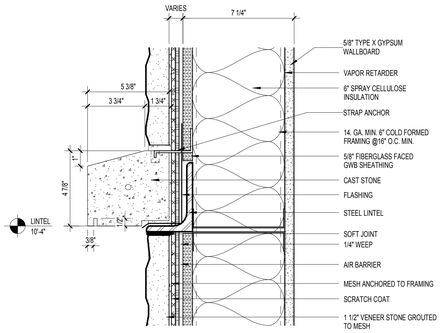
C4 BASEMENT WATERPROOFING AT CONNECTING CONCRETE FOUNDATION
1 1/2" = 1'-0"



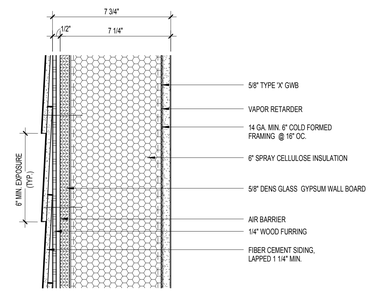
B7 TYPICAL EXTERIOR WALL - STONE VENEER
3" = 1'-0"



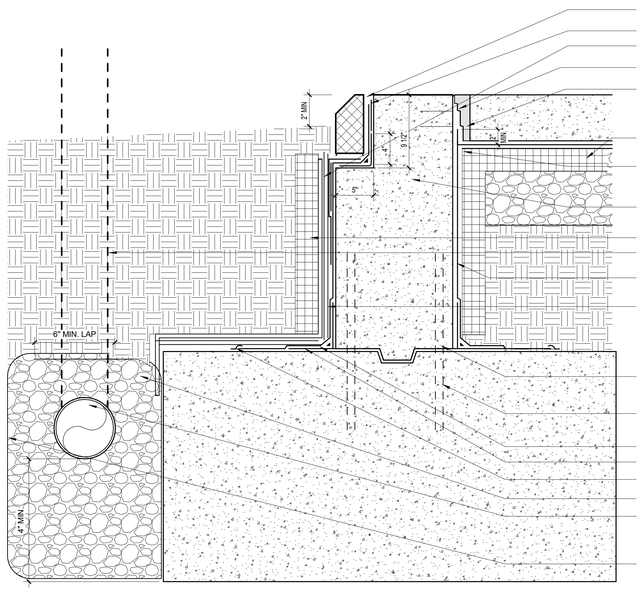
B9 EXTERIOR CONTROL JOINT
3" = 1'-0"



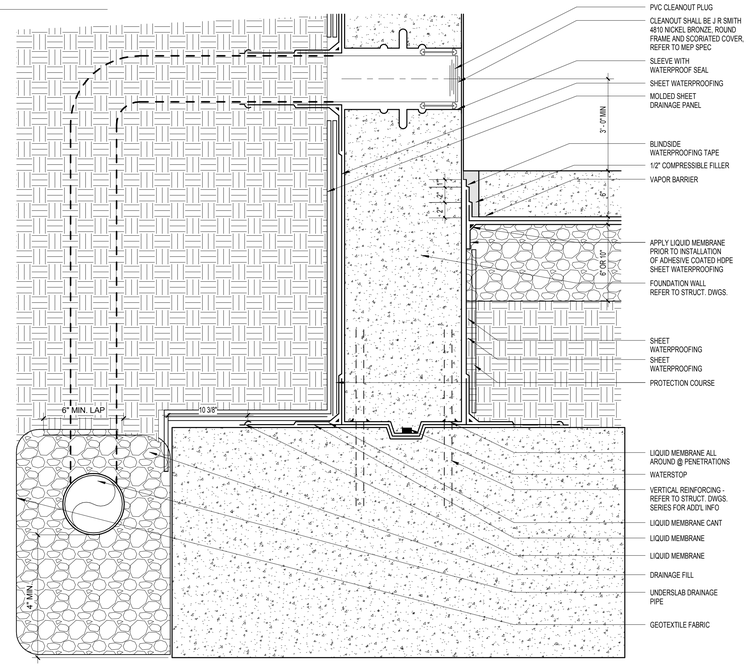
C7 TYPICAL EXTERIOR WALL AT LINTEL
3" = 1'-0"



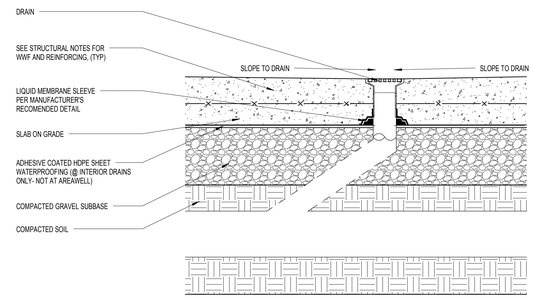
E7 TYPICAL EXTERIOR WALL - SIDING
3" = 1'-0"



F4 FOOTINGS AT FIRST FLOOR
1 1/2" = 1'-0"



F1 FOOTINGS AT BASEMENT
1 1/2" = 1'-0"



F7 SECTION DETAIL AT FLOOR DRAIN
1 1/2" = 1'-0"

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer: Dewberry — 600 Parsippany Road, Suite 301, Parsippany, NJ 07054-3715, Tel (973) 739-9400, Fax (973) 730-9710

Structural Engineer: WZG — 180 W. Ridge Pike, Limerick, PA 19468, Tel (214) 329-5559

MEP Engineer: H.E. Lenz Company — 1407 Scalp Avenue, Johnstown, PA 15904, Tel (814) 269-9200, Fax (814) 269-9301

Environmental Consultant: SSM — 1047 North Park Road, P.O. Box 6307, Reading, PA 19610, Tel (610) 621-2000

Cost Estimator: International Consultants, Inc. — 221 Chestnut Street, Suite 200, Philadelphia, PA 19106, Tel (215) 923-8888

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ARCHITECT:

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Project Number	Scale
3468	As indicated

Drawing Title: EXTERIOR DETAILS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date: 07/27/2012 | Checked: Checker | Drawn: JP

VA Project Number: 595-109

Building Number: 34

Drawing Number: AE600

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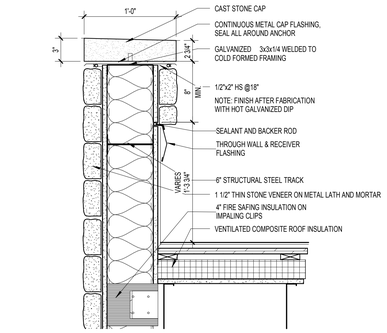
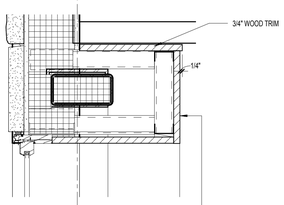
Office of Facilities Management

Department of Veterans Affairs

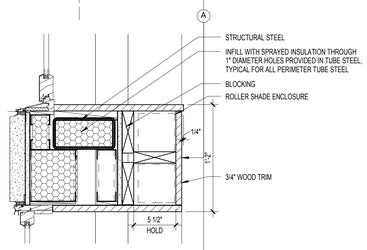
VA FORM 08-6231, OCT 1978



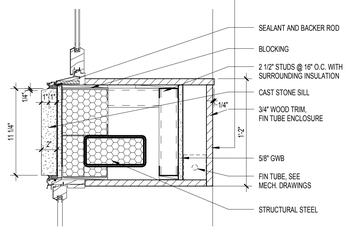
A1 SECTION AT PARAPET CAP
1 1/2" = 1'-0"



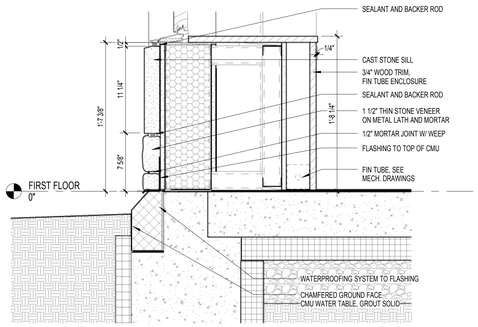
C1 DETAIL AT PARAPET
1 1/2" = 1'-0"



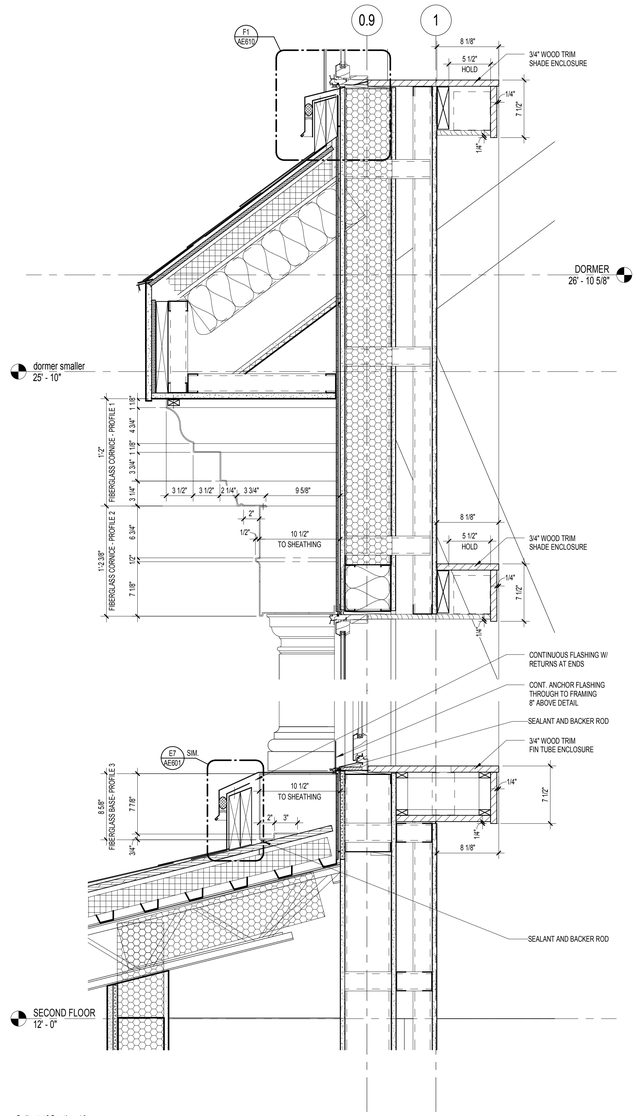
D1 DETAIL ABOVE STEEL BRACE
1 1/2" = 1'-0"



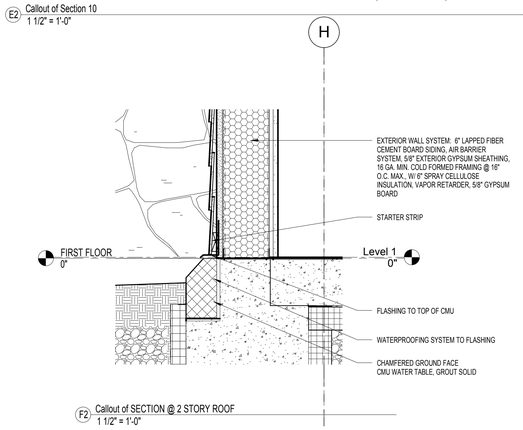
E1 DETAIL AT STEEL BRACE
1 1/2" = 1'-0"



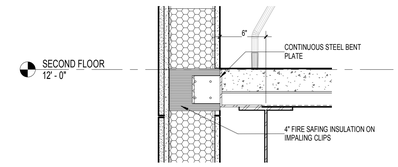
F1 DETAIL @ FLOOR
1 1/2" = 1'-0"



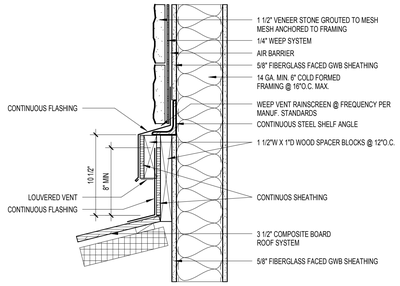
E2 Callout of Section 10
1 1/2" = 1'-0"



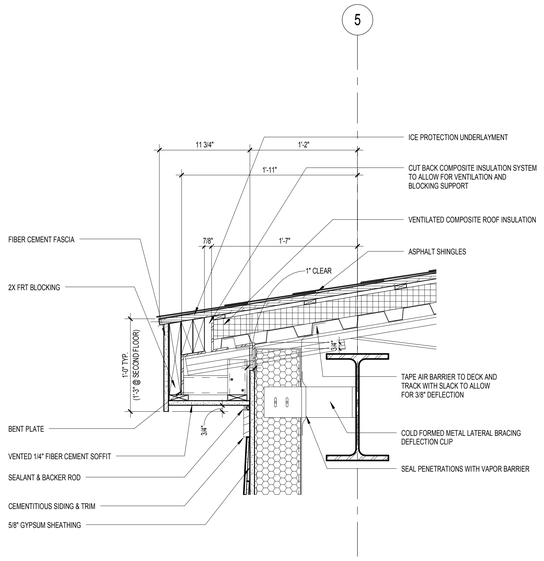
F2 Callout of SECTION @ 2 STORY ROOF
1 1/2" = 1'-0"



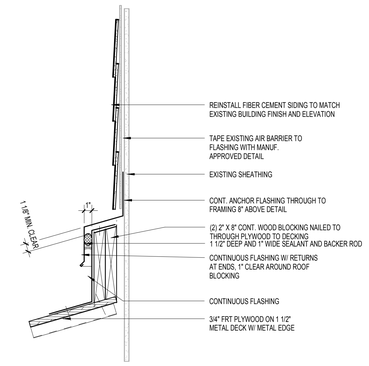
C5 SECTION @ LATERAL BRACING CLIP & PERIMETER FIRE CONTAINMENT SYSTEM
1 1/2" = 1'-0"



B7 RIDGE TO WALL DETAIL
1 1/2" = 1'-0"



E5 TYPICAL EAVE DETAIL
1 1/2" = 1'-0"



E7 RIDGE TO WALL DETAIL @ EXISTING BUILDING
1 1/2" = 1'-0"

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer: Dewberry — 600 Parsippany Road, Suite 301, Parsippany, NJ 07054-3715, Tel (973) 739-9400, Fax (973) 730-9710

Structural Engineer: WZG — 180 W. Ridge Pike, Limerick, PA 19468, Tel (214) 329-5559

MEP Engineer: H.E. Lenz Company — 1407 Scalp Avenue, Johnstown, PA 15904, Tel (814) 269-9300, Fax (814) 269-9301

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REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA

ARCHITECT:

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Project Number	Scale
3468	1 1/2" = 1'-0"

Drawing Title: EXTERIOR DETAILS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date: 07/27/2012 | Checked: Checker | Drawn: Author

VA Project Number: 595-109

Building Number: 34

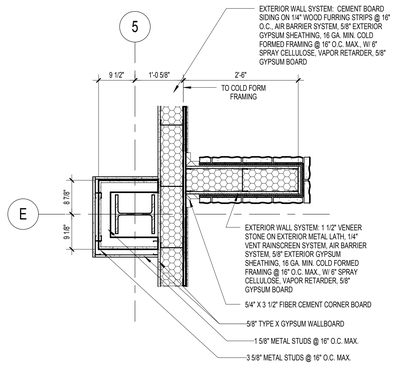
Drawing Number: AE601

Dwg. 58 of 123

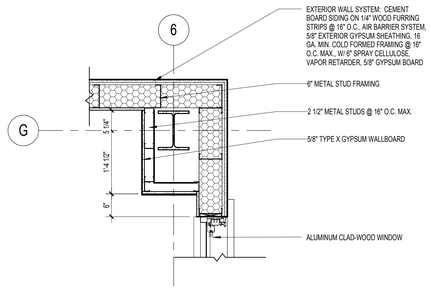
Office of Facilities Management

Department of Veterans Affairs

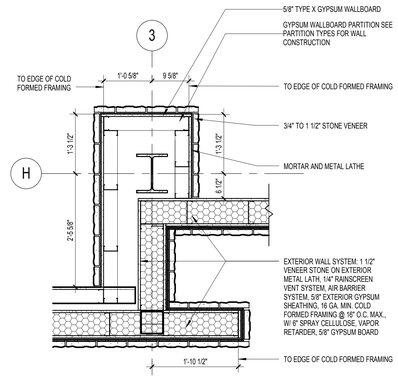
VA FORM 08-6231, OCT 1978



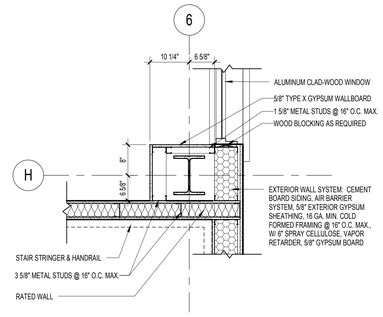
B1 ENLARGED COLUMN DETAIL @ CLASSROOM
3/4" = 1'-0"



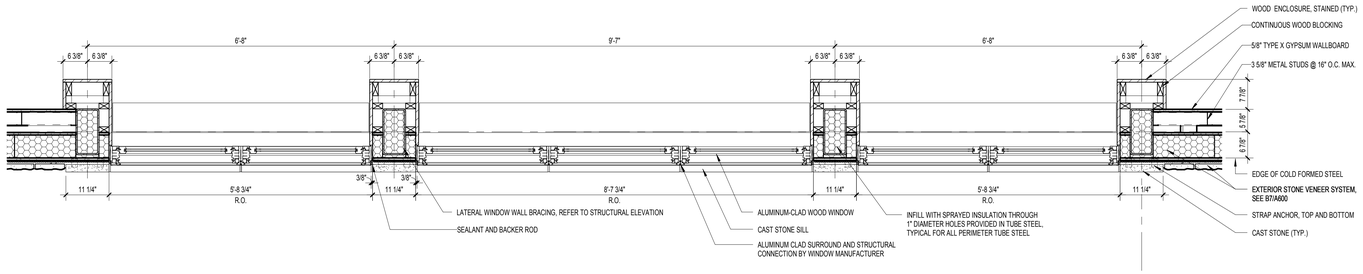
B2 ENLARGED COLUMN DETAIL @ OPEN COMPUTER AREA
3/4" = 1'-0"



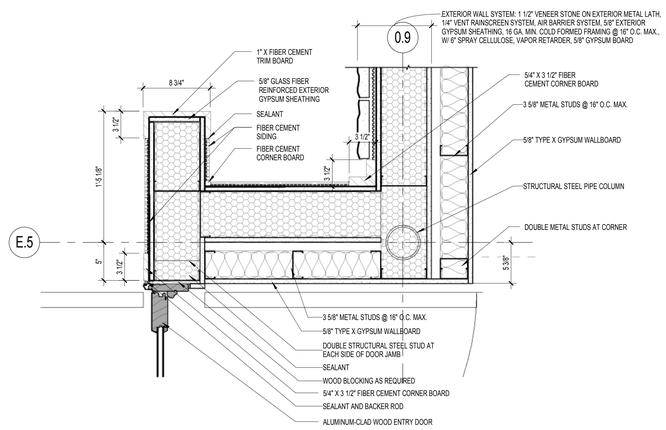
B4 ENLARGED COLUMN DETAIL @ COMMONS AREA
3/4" = 1'-0"



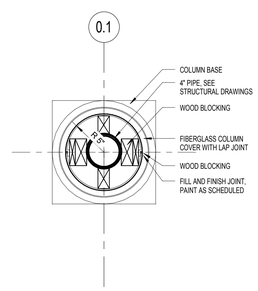
B6 ENLARGED COLUMN DETAIL @ STAIR #1
3/4" = 1'-0"



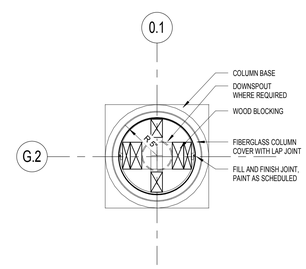
D2 ENLARGED WINDOW COLUMN DETAIL @ COMMONS AREA
3/4" = 1'-0"



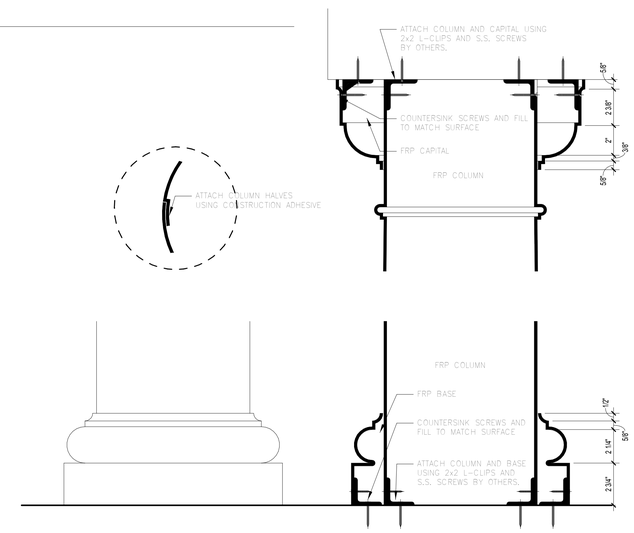
F1 ENLARGED DETAIL @ EXTERIOR CONCEALED DOWNSPOUT
1 1/2" = 1'-0"



F3 EXTERIOR FIBER GLASS COLUMN DETAIL
1 1/2" = 1'-0"



F5 EXTERIOR FIBER GLASS COLUMN WITH DOWNSPOUT DETAIL
1 1/2" = 1'-0"



F6 FRP COLUMN DETAILS
3" = 1'-0"

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

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Structural Engineer: WZG — 180 W. Ridge Pike, Limerick, PA 19468, Tel (214) 329-5559

MEP Engineer: H.F. Lenz Company — 1407 Scalp Avenue, Johnstown, PA 15904, Tel (814) 269-9300, Fax (814) 269-9301

Environmental Consultant: SSM — 1047 North Park Road, P.O. Box 6307, Reading, PA 19610, Tel (610) 621-2000

Cost Estimator: International Consultants, Inc. — 221 Chestnut Street, Suite 200, Philadelphia, PA 19106, Tel (215) 923-8888

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Project Number	Scale
3468	As indicated

Drawing Title: EXTERIOR DETAILS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	EBC	JP

VA Project Number: 595-109

Building Number: 34

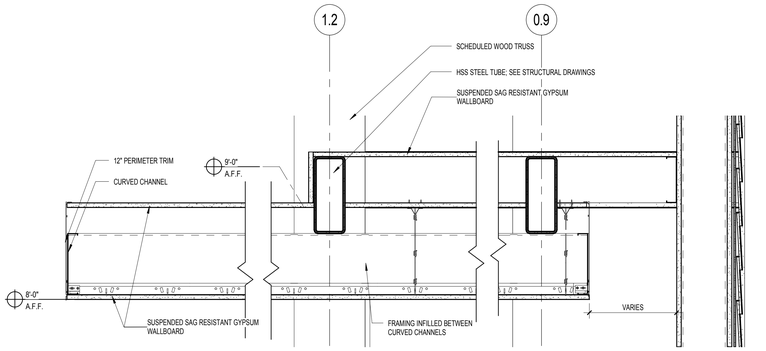
Drawing Number: AE602

Dwg. 59 of 123

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



B1 CAFE CEILING
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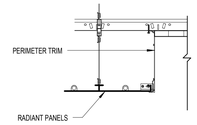

B4 WINDOW DETAIL - SECTION - RADIANT PANELS
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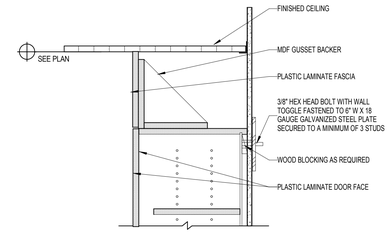

B5 TYPICAL CEILING DETAIL AT CASEWORK
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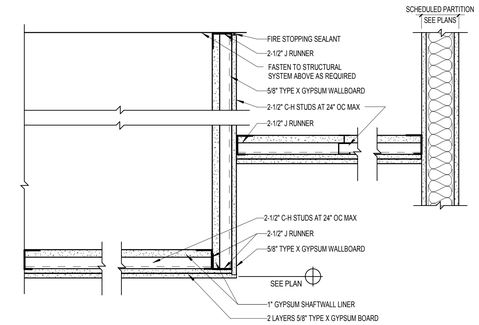
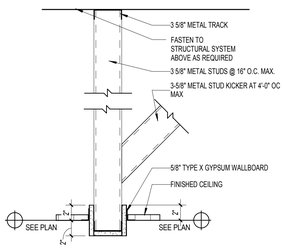
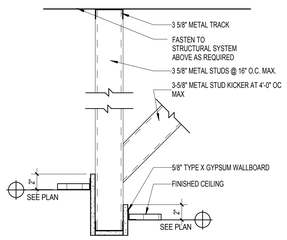


B7 SOFFIT DETAIL - 1 HR RATED SOFFIT
1 1/2" = 1'-0"



C1 SOFFIT DETAIL
1 1/2" = 1'-0"



C2 SOFFIT DETAIL
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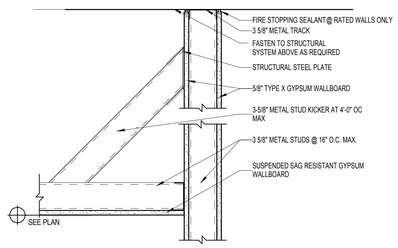

C3 SOFFIT DETAIL
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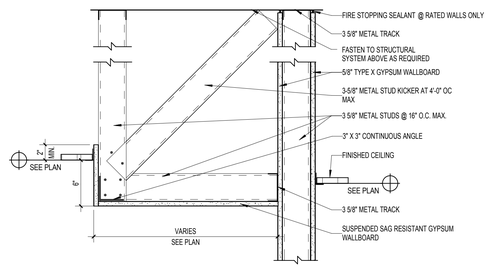

C5 SOFFIT DETAIL
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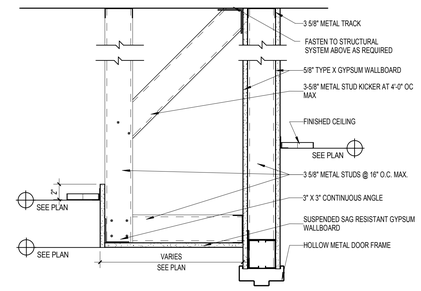
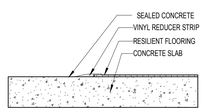
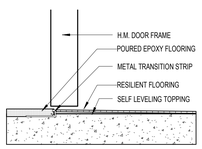


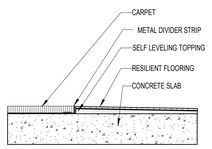
C7 SOFFIT DETAIL AT DOOR
1 1/2" = 1'-0"



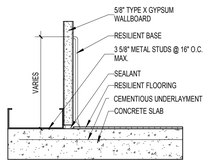
E1 RESILIENT FLOORING TO SEALED CONCRETE
3" = 1'-0"



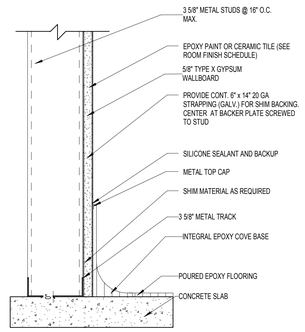
E2 RESILIENT TO POURED EPOXY FLOORING
3" = 1'-0"



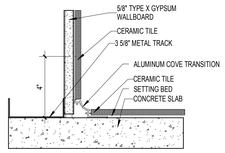
E3 CARPET TO RESILIENT FLOORING
3" = 1'-0"



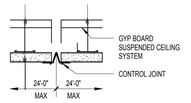
E4 RESILIENT BASE
3" = 1'-0"



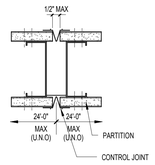
E5 POURED EPOXY COVE BASE
3" = 1'-0"



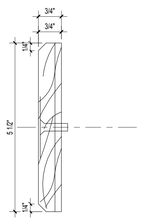
E7 ALUMINUM COVE BASE PROFILE
3" = 1'-0"



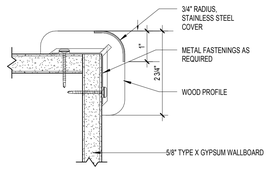
D8 CONTROL JOINT FOR GYPSUM BOARD CEILING
3" = 1'-0"



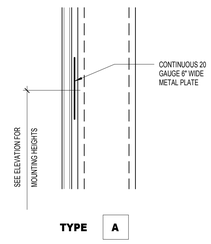
E8 CONTROL JOINT AT PARTITION
3" = 1'-0"



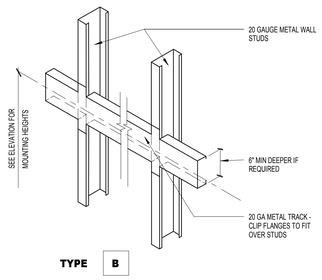
F1 SECTION @ RUNNING TRIM
6" = 1'-0"



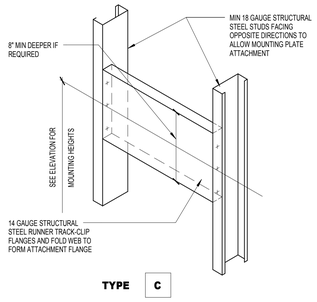
F2 WOOD CORNER GUARD DETAIL
6" = 1'-0"



F4 ACCESSORY/EQUIPMENT MOUNTING DETAIL TYPE A
3/8" = 1'-0"



F5 ACCESSORY/EQUIPMENT MOUNTING DETAIL TYPE B
3/8" = 1'-0"



F7 ACCESSORY/EQUIPMENT MOUNTING DETAIL TYPE C
3/8" = 1'-0"

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

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Structural Engineer
WZG
180 W. Ridge Pike
Limerick, PA 19468
Tel (214) 329-5559

MEP Engineer
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Johnstown, PA 15904
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REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA

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Project Number	Scale
3468	As indicated

Drawing Title: INTERIOR DETAILS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	EBC	NH

VA Project Number: 595-109

Building Number: 34

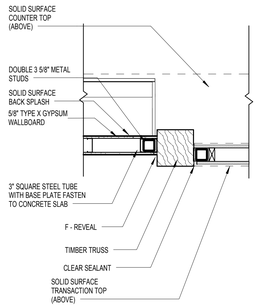
Drawing Number: AE610

Dwg. 60 of 123

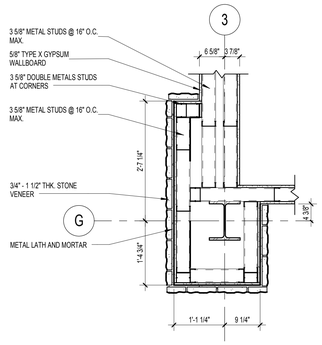
Office of Facilities Management

Department of Veterans Affairs

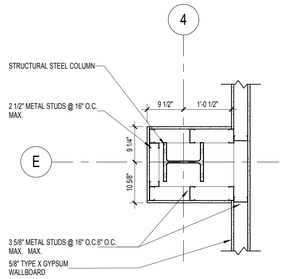
VA FORM 08-6231, OCT 1978



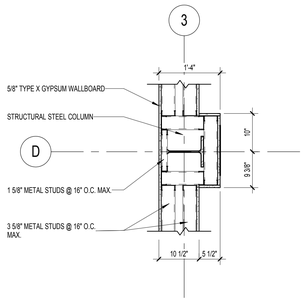
B1 ENLARGED COLUMN DETAIL @ CAFE
3/4" = 1'-0"



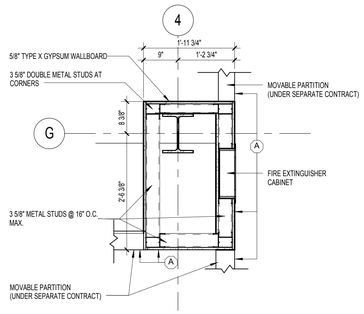
B2 ENLARGED COLUMN DETAIL @ RECEPTION AREA
3/4" = 1'-0"



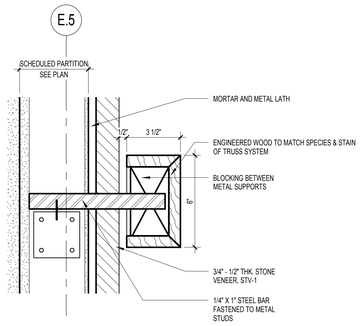
B4 ENLARGED COLUMN DETAIL - 1
3/4" = 1'-0"



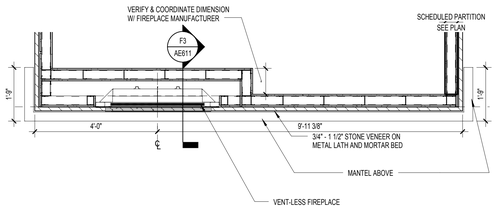
B5 ENLARGED COLUMN DETAIL - 2
3/4" = 1'-0"



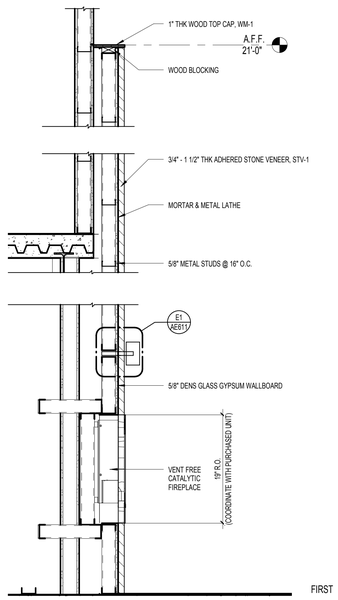
B7 ENLARGED COLUMN DETAIL @ OPEN OFFICES
3/4" = 1'-0"



E1 SECTION @ MANTLE
3" = 1'-0"



F1 ENLARGED FIREPLACE PLAN
1/2" = 1'-0"



F3 SECTION AT FIREPLACE
3/4" = 1'-0"

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

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Project Number	Scale
3468	As indicated

Drawing Title: INTERIOR DETAILS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date: 07/27/2012 | Checked: EBC | Drawn: NH/EBC

VA Project Number: 595-109

Building Number: 34

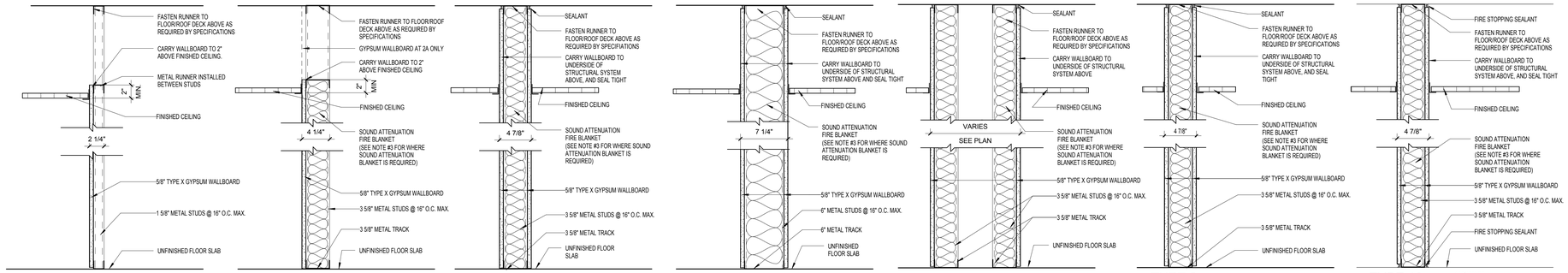
Drawing Number: AE611

Dwg. 61 of 123

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



TYPE 1

TYPE 1A — SAME AS TYPE 1 EXCEPT 2 1/2" METAL STUDS

TYPE 2

TYPE 2A — SAME AS TYPE 2 EXCEPT CARRY GYPSUM WALLBOARD TO FLOOR/ ROOF DECK ABOVE

TYPE 2B — SAME AS TYPE 2A EXCEPT 6" METAL STUDS @ 16" O.C.

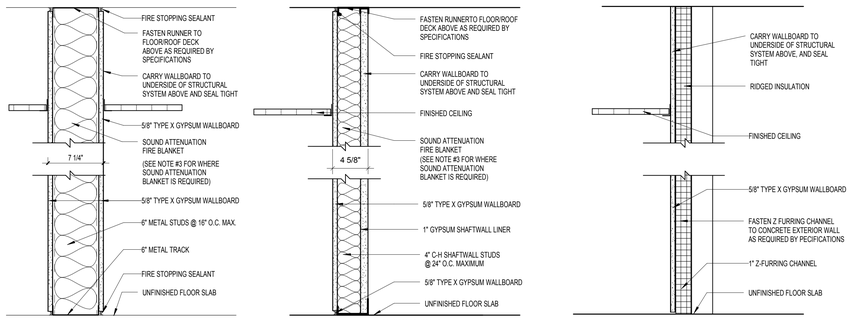
TYPE 5 — STC 49

TYPE 6 — STC 49

TYPE 7 — PLUMBING CHASE

TYPE 9 — SMOKE PARTITION — STC 49

TYPE 10 — 1 HOUR FIRE RATED WALL — UL DES U465/U419 — STC 49

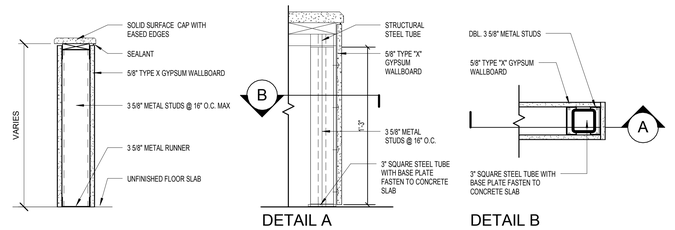


TYPE 11 — 1 HOUR FIRE RATED WALL — UL DES U465/U419 — STC 49

TYPE 16 — 1 HOUR FIRE RATED SHAFT WALL — UL DES. U469 / U415

TYPE 16A — SAME AS TYPE 16 EXCEPT 6" CH STUD — UL DES. U469 / U415

TYPE 21



TYPE 29 — HALF HEIGHT PARTITION

DETAIL A

DETAIL B

PARTITION TYPES GENERAL NOTES

1. ALL FIRE RATED PARTITIONS MUST BE INSTALLED PER THEIR UL DESIGN NUMBERS.

2. INSTALL SOUND ATTENUATION BLANKET IN ALL PARTITIONS THAT FORM ANY PART OF THE ENCLOSURE OF THE FOLLOWING ROOMS: TOILET ROOMS, OFFICES AND MECHANICAL ROOMS. THESE PARTITIONS SHALL HAVE 3-1/2" FIBERGLASS BATT SOUND ATTENUATION BLANKETS AND MEET MINIMUM SOUND TRANSMISSION RATING OF STC 45. USE ACOUSTICAL SEALANT AROUND THE ENTIRE PERIMETER ON NON-RATED PARTITIONS.

3. REPLACE 5/8" GYPSUM WALLBOARD WITH 5/8" DENS-SHIELD IN ALL AREAS TO RECEIVE CERAMIC TILE. SKIM COAT ENTIRE SURFACE NOT COVER BY TILE.

4. REPLACE 5/8" GYPSUM WALLBOARD WITH 5/8" MOISTURE AND MOLD-RESISTANT GYPSUM WALL BOARD ON ALL PLUMBING WALL OTHER THAN THOSE COVERED IN NOTE # 4 ABOVE.

5. FOR HEIGHTS UP TO AND INCLUDING 14'-0" TYPICAL INTERIOR METAL STUDS ARE 20 GA. AT 16" O.C., FOR HEIGHTS ABOVE 14'-0", USE 18 GA AT 16" O.C., USE DOUBLE 20 GA. STUDS AT DOORS AND BORROWED LIGHT FRAMES.

6. INSTALL SUPPLEMENTARY FRAMING, BLOCKING, AND BRACING IN PARTITIONS TO SUPPORT FIXTURES, EQUIPMENT SERVICES, HEAVY TRIM, GRAB BARS, TOILET ACCESSORIES, DOOR HARDWARE, FURNISHINGS, OR SIMILAR CONSTRUCTION. COMPLY WITH DETAILS INDICATED AND WITH RECOMMENDATIONS OF "GYPSUM CONSTRUCTION HANDBOOK".

7. EXTEND ALL WALLS TO UNDERSIDE OF STRUCTURE ABOVE. PROVIDE SLIP TRACK AT TOP OR ANOTHER APPROVED METHOD TO ALLOW FOR A 1" DEFLECTION OF THE STRUCTURE.

8. ALL PARTITIONS SHALL BE TYPE 5 UNLESS OTHERWISE NOTED.

9. ALL COLUMN COVERS SHALL BE TYPE 1A UNLESS OTHERWISE NOTED.

GENERAL NOTES ON COLD-FORMED PARTITIONS (APPLIES TO ALL TYPES)

1. ALL WALLS EXTEND TO UNDERSIDE OF STRUCTURE. PROVIDE SLIP TRACK AT TOP OR ANOTHER APPROVED METHOD TO ALLOW FOR 1" DEFLECTION OF STRUCTURE.

2. PROVIDE SIZE AND SPACING OF STUDS AS INDICATED.

MINIMUM GAUGES AS FOLLOWS
(FOR 20 GAUGE AND LIGHTER: 1-1/4" FLANGE)
(FOR 18 GAUGE AND HEAVIER: 1-5/8" FLANGE)

HEIGHTS UP TO 8':
1-5/8" STUDS: 20 GAUGE
3-5/8" STUDS: 25 GAUGE
6" STUDS: 26 GAUGE

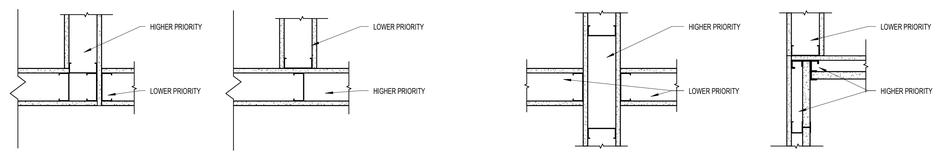
HEIGHTS UP TO 12':
3-5/8" STUDS: 22 GAUGE
6" STUDS: 26 GAUGE

HEIGHTS UP TO 16':
3-5/8" STUDS: 16 GAUGE
6" STUDS: 22 GAUGE

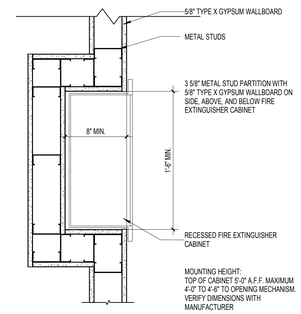
HEIGHTS UP TO 22':
3-5/8" STUDS: 12 GAUGE
6" STUDS: 18 GAUGE

PARTITION PRIORITY LEGEND

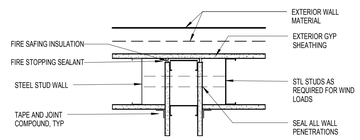
TWO HOUR FIRE RATED PARTITION TWO HOUR FIRE SHAFT WALL	PRIORITY 1 (HIGHEST PRIORITY)
ONE HOUR FIRE RATED PARTITION ONE HOUR FIRE SHAFT WALL	PRIORITY 2
NON-RATED SMOKE PARTITION	PRIORITY 3
NON-RATED PARTITION	PRIORITY 4 (LOWEST PRIORITY)



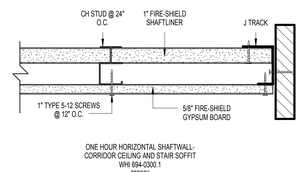
E4 RATED PARTITION INTERSECTION
1 1/2" = 1'-0"



E9 FIRE EXTINGUISHER CABINET
1 1/2" = 1'-0"



F4 PLAN DETAIL AT FIRE AND OR FIRE/SMOKE AND EXTERIOR WALL
1 1/2" = 1'-0"



F6 ONE HOUR RATED SHAFTWALL SOFFIT DETAIL
3" = 1'-0"

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer: Dewberry — 600 Parsippany Road, Suite 301, Parsippany, NJ 07054-3715, Tel (973) 739-9400, Fax (973) 730-9710

Structural Engineer: WZG — 180 W. Ridge Pike, Limerick, PA 19468, Tel (214) 329-5559

MEP Engineer: H.E. LENZ COMPANY — 1407 Scalp Avenue, Johnstown, PA 15904, Tel (814) 269-9300, Fax (814) 269-9301

Environmental Consultant: SSM — 1047 North Park Road, P.O. Box 6307, Reading, PA 19610, Tel (610) 621-2000

Cost Estimator: International Consultants, Inc. — 221 Chestnut Street, Suite 200, Philadelphia, PA 19106, Tel (215) 923-8888

ARCHITECT:

ARRAY — healthcare facilities solutions

2520 Renaissance Boulevard, Suite 110
King of Prussia, PA 19406

t: 610.270.0599
f: 610.270.0995
www.arrayhfs.com

Project Number	Scale
3468	As indicated

Drawing Title: PARTITION TYPE DETAILS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	EBC	NH

VA Project Number: 595-109

Building Number: 34

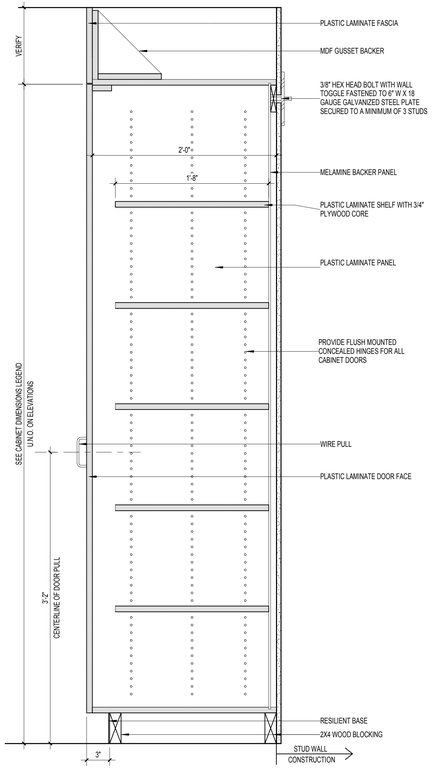
Drawing Number: AE612

Dwg. 62 of 123

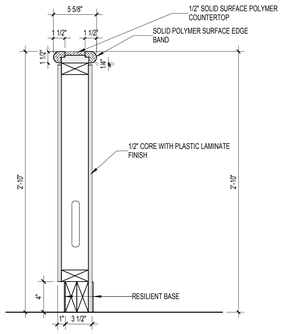
Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



D1 SECTION @ STORAGE CABINET
1 1/2" = 1'-0"



D2 SECTION @ UPPER CABINET
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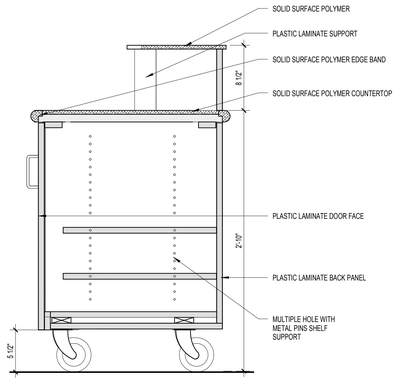

D3 SECTION @ UPPER CABINET
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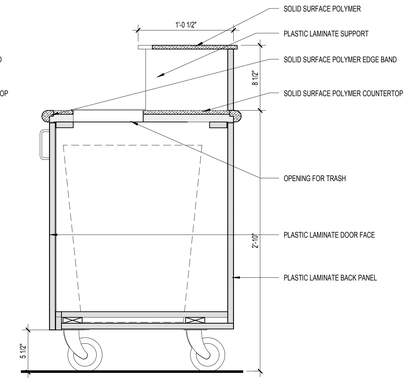
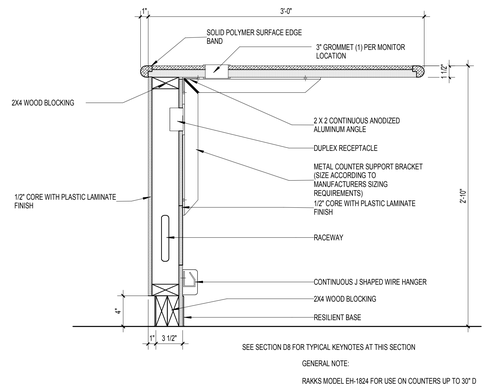
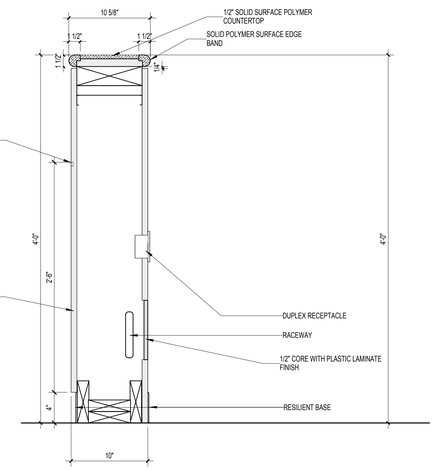


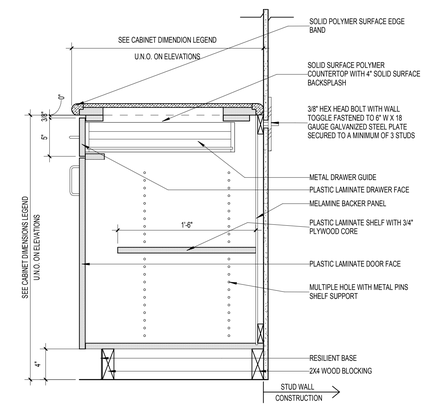
D4 CART SECTION @ TRASH
1 1/2" = 1'-0"



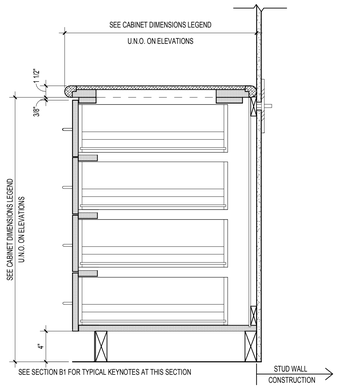
D5 SECTION @ CAFE
1 1/2" = 1'-0"



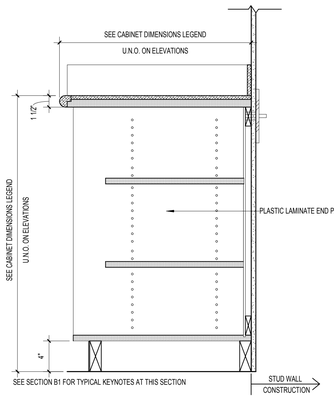
D8 SECTION @ CAFE
1 1/2" = 1'-0"



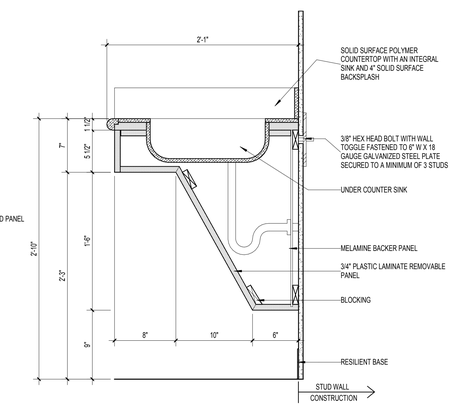
F1 SECTION @ TYPICAL BASE CABINET
1 1/2" = 1'-0"



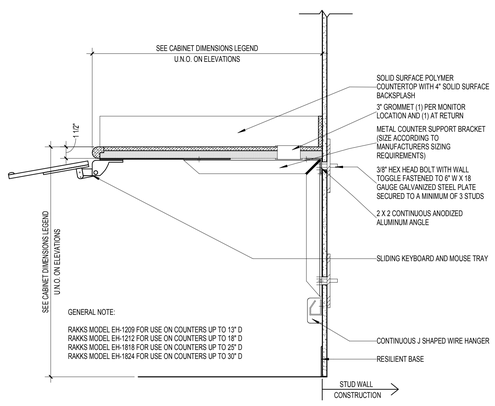
F2 SECTION @ TYPICAL BASE CABINET
1 1/2" = 1'-0"



F3 SECTION @ TYPICAL OPEN BASE CABINET
1 1/2" = 1'-0"



F5 SECTION @ SINK BASE CABINET - ADA ACCESSIBLE
1 1/2" = 1'-0"



F7 SECTION @ WORK COUNTER
1 1/2" = 1'-0"

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer: Dewberry — 600 Parsippany Road, Suite 301, Parsippany, NJ 07054-3715, Tel (973) 739-9400, Fax (973) 730-9710

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ARCHITECT:

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Project Number	Scale
3468	1 1/2" = 1'-0"

Drawing Title: MILLWORK AND CASEWORK DETAILS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date: 07/27/2012 | Checked: Checker | Drawn: Author

VA Project Number: 595-109

Building Number: 34

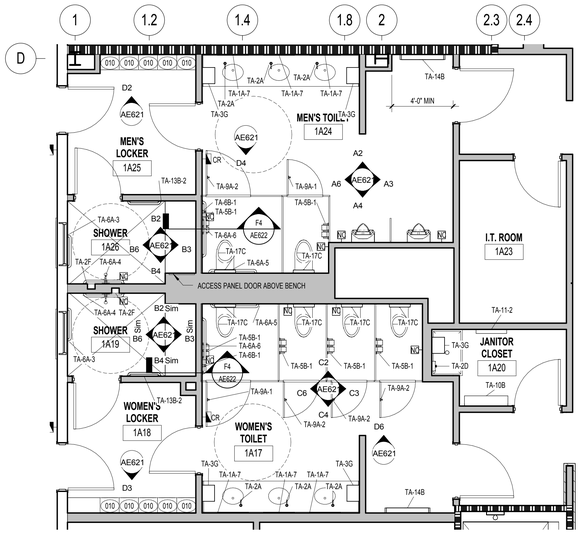
Drawing Number: AE620

Dwg. 63 of 123

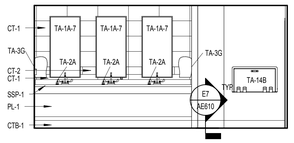
Office of Facilities Management

Department of Veterans Affairs

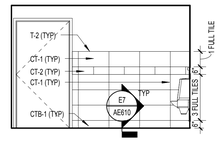
VA FORM 08-6231, OCT 1978



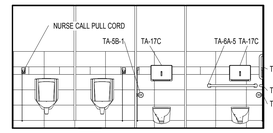
B1 FIRST FLOOR TOILETS ENLARGED PLAN
1/4" = 1'-0"



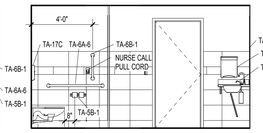
A2 MEN'S TOILET 1A24 ELEVATION NORTH
1/4" = 1'-0"



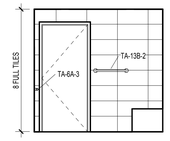
A3 MEN'S TOILET 1A24 ELEVATION EAST
1/4" = 1'-0"



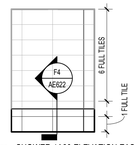
A4 MEN'S TOILET 1A24 ELEVATION SOUTH
1/4" = 1'-0"



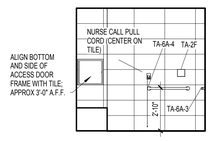
A6 MEN'S TOILET 1A24 ELEVATION WEST
1/4" = 1'-0"



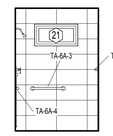
B2 SHOWER 1A26 ELEVATION NORTH
1/4" = 1'-0"



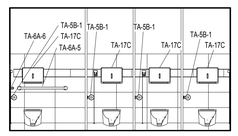
B3 SHOWER 1A26 ELEVATION EAST
1/4" = 1'-0"



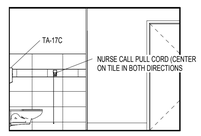
B4 SHOWER 1A26 ELEVATION SOUTH
1/4" = 1'-0"



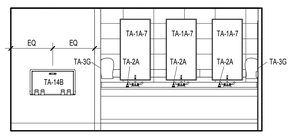
B6 SHOWER 1A26 ELEVATION WEST
1/4" = 1'-0"



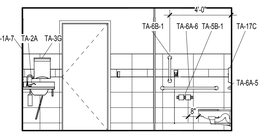
C2 WOMEN'S TOILET 1A17 ELEVATION NORTH
1/4" = 1'-0"



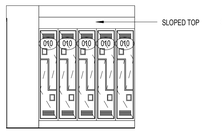
C3 WOMEN'S TOILET 1A17 ELEVATION EAST
1/4" = 1'-0"



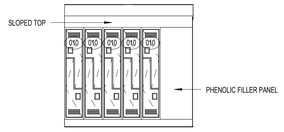
C4 WOMEN'S TOILET 1A17 ELEVATION SOUTH
1/4" = 1'-0"



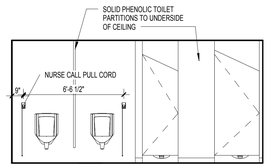
C6 WOMEN'S TOILET 1A17 ELEVATION WEST
1/4" = 1'-0"



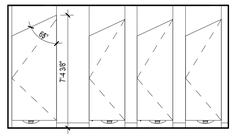
D2 MEN'S LOCKER 1A25 ELEVATION NORTH
1/4" = 1'-0"



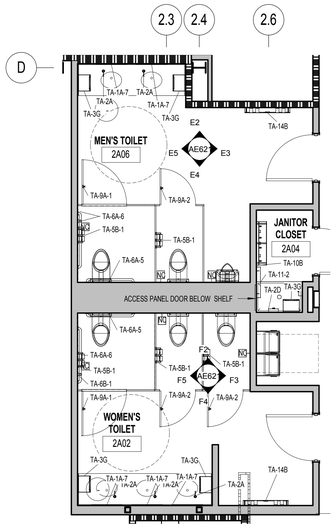
D3 WOMEN'S LOCKER 1A18 ELEVATION SOUTH
1/4" = 1'-0"



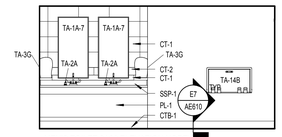
D4 MEN'S TOILET 1A24 ELEVATION SOUTH
1/4" = 1'-0"



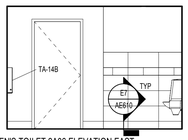
D6 WOMEN'S TOILET 1A17 ELEVATION NORTH
1/4" = 1'-0"



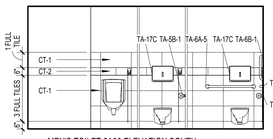
F1 SECOND FLOOR TOILETS ENLARGED PLAN
1/4" = 1'-0"



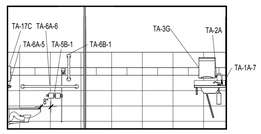
E2 MEN'S TOILET 2A06 ELEVATION NORTH
1/4" = 1'-0"



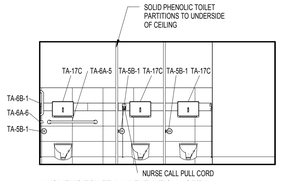
E3 MEN'S TOILET 2A06 ELEVATION EAST
1/4" = 1'-0"



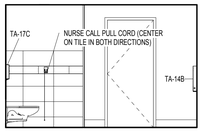
E4 MEN'S TOILET 2A06 ELEVATION SOUTH
1/4" = 1'-0"



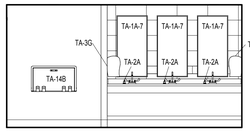
E5 MEN'S TOILET 2A06 ELEVATION WEST
1/4" = 1'-0"



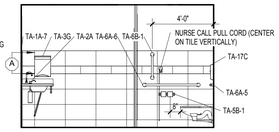
F2 WOMEN'S TOILET 2A02 ELEVATION NORTH
1/4" = 1'-0"



F3 WOMEN'S TOILET 2A02 ELEVATION EAST
1/4" = 1'-0"

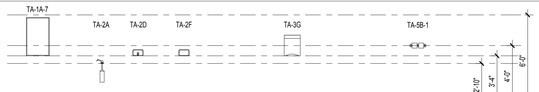


F4 WOMEN'S TOILET 2A02 ELEVATION SOUTH
1/4" = 1'-0"



F5 WOMEN'S TOILET 2A02 ELEVATION WEST
1/4" = 1'-0"

TOILET ACCESSORIES LEGEND



Mirror with Stainless Steel Frame
TA-1A-7 24"x48"

TA-2A Soap Dispenser Deck Type
TA-2D Surface Mounted Soap Dispenser
TA-2F Recessed Soap Dish

TA-3G Surface Mounted Automatic Paper Towel Dispenser

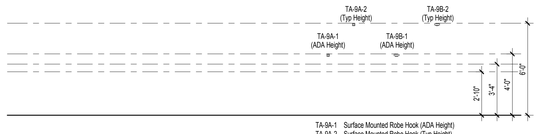
TA-5B-1 Double-Roll Toilet Tissue Dispenser

Grab Bar Horizontal
TA-6A-3 24" Length
TA-6A-4 30" Length
TA-6A-6 42" Length
TA-6A-7 48" Length

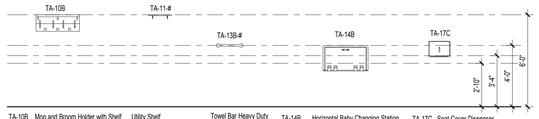
Grab Bar Vertical
TA-6B-1 18" Length

TA-6D Swing-Up Grab Bar

Security Grab Bar
TA-6E-1 18" Length
TA-6E-2 24" Length
TA-6E-3 24" Length
TA-6E-4 36" Length
TA-6E-5 42" Length
TA-6E-6 60" Length



TA-9A-1 Surface Mounted Robe Hook (ADA Height)
TA-9A-2 Surface Mounted Robe Hook (Typ Height)
TA-9B-1 Surface Mounted Double Robe Hook (ADA Height)
TA-9B-2 Surface Mounted Robe Hook (Typ Height)



TA-10B Mop and Broom Holder with Shelf

Utility Shelf
TA-11-1 24" Length
TA-11-2 36" Length

Towel Bar Heavy-Duty
TA-13B-1 18" Length
TA-13B-2 24" Length

TA-14B Horizontal Baby Changing Station

TA-17C Seat Cover Dispenser

NOTES:

1. ADA REQUIRES THAT MOUNTING HEIGHTS FOR BARRIER FREE DESIGN BE SO LOCATED THAT THE OPERATIVE PORTION (I.E. PUSH KNOB, TOWELS SLOT) BE NO HIGHER THAN 40" FROM FINISHED FLOOR. GRAB BARS BE BETWEEN 33" AND 36" AND COIN SLOTS BE NO HIGHER THAN 48" FROM FINISHED FLOOR.
2. TOILET ACCESSORIES DESIGN VARIES BY MANUFACTURER. SEE MANUFACTURER MOUNTING HEIGHT REQUIREMENTS FOR ROUGH-INS DIMENSIONS AND LOCATION.

TOILET ACCESSORIES GENERAL NOTES

WHETHER INDICATED OR NOT IN THE TOILET ACCESSORY SCHEDULE, THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:

1. PAPER TOWEL AND SOAP DISPENSER IN ALL JANITOR CLOSETS AND SINK LOCATIONS.
2. LAVATORY PROTECTIVE ENCLOSURE AT ALL LAVATORIES.
3. SEE SHEET AE201 FOR EQUIPMENT SCHEDULE.

TOILET ACCESSORY SCHEDULE

ACCESSORY				MOUNTING HEIGHT		RESPONSIBILITY			
T.A. #	DESCRIPTION	MANUFACTURER	MODEL	HEIGHT	REMARKS	PURCHASED BY	PLACED BY	INSTALLED BY	COMMENTS
TA-1A-7	Glass Mirror	Bobrick	B-165 2448	3' - 4"	To Bottom of Reflective Surface	Contractor	Contractor	Contractor	
TA-2A	Soap Dispenser - Deck Type	Bobrick	B-822		To Match Counter Height	Contractor	Contractor	Contractor	
TA-2D	Soap Dispenser	Bobrick	B-2112	3' - 11 1/2"	To Top of Unit	Contractor	Contractor	Contractor	
TA-2F	Soap Dish - Recessed	Bobrick		4' - 1"	To Top of Unit	Contractor	Contractor	Contractor	
TA-3G	Paper Towel Dispenser	Kimberly-Clark Professional	09992	3' - 4"	To Bottom of Unit	Contractor	Contractor	Contractor	
TA-5B-1	Toilet Tissue Dispenser - Double Roll	Bobrick	B-274			Contractor	Contractor	Contractor	
TA-6A-3	Grab Bar 24"	Bobrick	B-6806 x 24	2' - 10"	To Top of Tubing	Contractor	Contractor	Contractor	
TA-6A-4	Grab Bar 30"	Bobrick	B-6806 x 30	2' - 10"	To Top of Tubing	Contractor	Contractor	Contractor	
TA-6A-5	Grab Bar 36"	Bobrick	B-6806 x 36	2' - 10"	To Top of Tubing	Contractor	Contractor	Contractor	
TA-6A-6	Grab Bar 42"	Bobrick	B-6806 x 42	2' - 10"	To Top of Tubing	Contractor	Contractor	Contractor	
TA-6B-1	Grab Bar 18" - Vertical	Bobrick	B-6806 x 18	3' - 3"	To Bottom of Tubing	Contractor	Contractor	Contractor	
TA-9A-1	Robe Hook	Bobrick	B-7671	3' - 4"	To Top of Unit (ADA Height)	Contractor	Contractor	Contractor	
TA-9A-2	Robe Hook	Bobrick	B-7671	6' - 0"	To Top of Unit (Typical Height)	Contractor	Contractor	Contractor	
TA-10B	Mop and Broom Holder with Shelf and Rag Hooks	Bobrick	B-239	6' - 0"	To Top of Unit	Contractor	Contractor	Contractor	
TA-11-2	Utility Shelf - 24"	Bobrick	B-296 x 24	6' - 0"	To Top of Unit	Contractor	Contractor	Contractor	
TA-13B-2	24" Heavy Duty Towel Bar	Bobrick	B-530 x 24	4' - 0"	To CL of Tubing	Contractor	Contractor	Contractor	
TA-14B	Baby Changing Station - Horizontal	Bobrick	KB-100-00	4' - 0"	To Top of Unit	Contractor	Contractor	Contractor	
TA-17C	Seat Cover Dispenser - Surface Mounted	Kimberly-Clark Professional	09512	4' - 1"	To Bottom of Unit	Contractor	Contractor	Contractor	

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions | Date

CONSULTANTS:

Civil Engineer: Dewberry — 600 Parsippany Road, Suite 301, Parsippany, NJ 07054-3715, Tel (973) 739-9400, Fax (973) 730-9710

Structural Engineer: WZG — 180 W. Ridge Pike, Limerick, PA 19468, Tel (214) 329-5559

MEP Engineer: H.F. Lenz Company — 1407 Scalp Avenue, Johnstown, PA 15904, Tel (814) 269-9300, Fax (814) 269-9301

Environmental Consultant: SSM — 1047 North Park Road, P.O. Box 6307, Reading, PA 19610, Tel (610) 621-2000

Cost Estimator: International Consultants, Inc. — 221 Chestnut Street, Suite 200, Philadelphia, PA 19106, Tel (215) 923-8888

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Project Number	Scale
3468	As indicated

Drawing Title: ENLARGED TOILET PLANS AND ELEVATIONS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date: 07/27/2012 | Checked: EBC | Drawn: NH

VA Project Number: 595-109

Building Number: 34

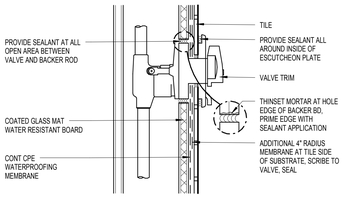
Drawing Number: AE621

Dwg. 64 of 123

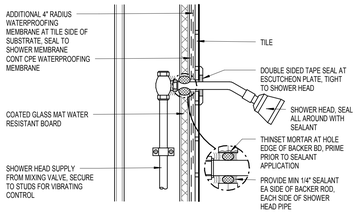
Office of Facilities Management

Department of Veterans Affairs

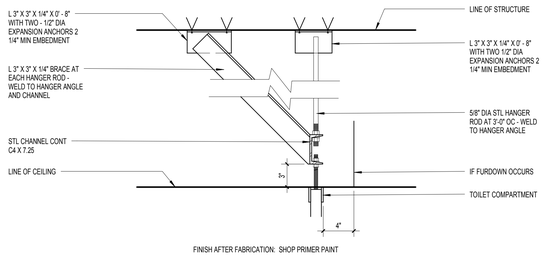
VA FORM 08-6231, OCT 1978



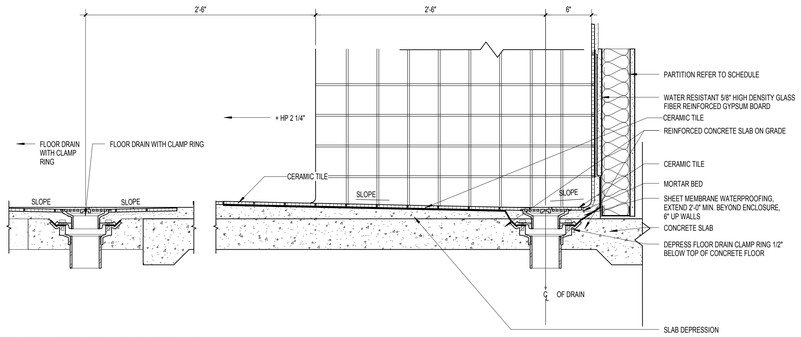
D1 SHOWER CONTROL VALVE PENETRATION DETAIL
3" = 1'-0"



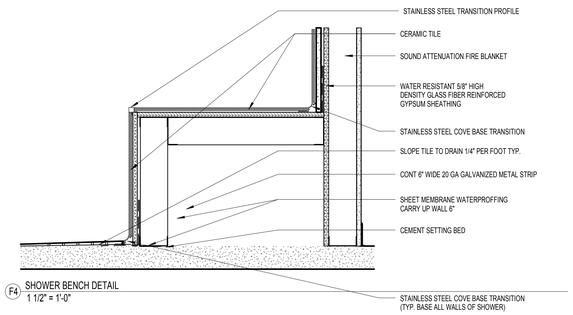
D2 SHOWER HEAD PENETRATION DETAIL
3" = 1'-0"



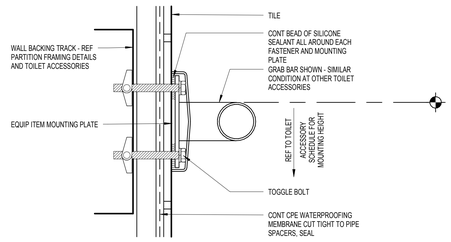
D4 CEILING MOUNTED TOILET COMPARTMENT SUPPORT
1 1/2" = 1'-0"



F1 HANDICAPPED SHOWER SECTION @ DEPRESSION SLAB
1 1/2" = 1'-0"



F4 SHOWER BENCH DETAIL
1 1/2" = 1'-0"



F6 GRAB BAR DETAIL AT TILED WALL
6" = 1'-0"

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

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Project Number	Scale
3468	As indicated

Drawing Title: TOILET DETAILS & ACCESSORIES SCHEDULE	Project Title: Behavioral Health Complex		VA Project Number: 595-109
			Building Number: 34
Approved: Project Director	Location: 1700 South Lincoln Ave. Lebanon, PA 17042		Drawing Number: AE622
	Date: 07/27/2012	Checked: EBC	Drawn: NH
			Dwg. 65 of 123

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

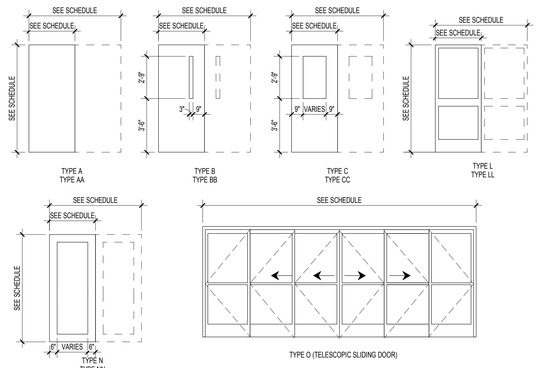
DOOR SCHEDULE

DOOR #	DOOR ELEVATION TYPE	DOOR SIZE WD	DOOR SIZE HGT	DOOR SIZE THK	DOOR MATL	DOOR FIN	GLAZ	FRAME ELEVATION TYPE	FRAME MATL	FRAME FIN	FRAME DETAIL #	HWD SETS	UL RATING	COMMENTS
BA01	AA	7' - 0"	7' - 0"	1 3/4"	GHM	MGP		3M4	GHM	MGP	F6,F7	4		
BA02	A	3' - 0"	7' - 0"	1 3/4"	HM	MP		1	HM	MP	D2	6	45	
BA03	A	3' - 0"	7' - 0"	1 3/4"	HM	MP		1	HM	MP	D2	20	45	PUSH BUTTON
1A00A	O	7' - 0"	8' - 0"	1 3/4"	AL	AL	CTG	3	AL	AL	F1/AE702	31		SLIDER; AUTO OPERATOR
1A00B	LL	10' - 0"	7' - 10 7/8"	1/4"	ACW	PAWTF	CTG	3	ACW	PA/WTF	F1	30		
1A01A	NN	6' - 1 1/4"	7' - 11 1/2"	2 1/16"	ACW	PAWTF	CTG	3	ACW	PA/WTF	D6,D7	32		WITH SCREEN
1A01C	NN	6' - 1 1/4"	7' - 11 1/2"	2 1/16"	ACW	PAWTF	CTG	3	ACW	PA/WTF	D6,D7	32		WITH SCREEN
1A02	B	4' - 0"	7' - 0"	1 3/4"	SCV	WTF	FRG	1	HM	MP	D2	8	45	
1A02A	A	4' - 0"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	27		
1A02B	AA	5' - 0"	7' - 0"	1 3/4"	SCV	WTF		3	HM	MP	D2	33		
1A04A	A	4' - 0"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	27		
1A04B	B	3' - 6"	7' - 0"	1 3/4"	SCV	WTF	CTG	1	HM	MP	D2	28		
1A04C	N	3' - 2"	7' - 2"	2 1/16"	ACW	PAWTF	CTG	1	ACW	PA/WTF	D6,D7	2		
1A05	AA	6' - 0"	7' - 0"	1 3/4"	GHM	MGP		3	GHM	MGP	F2,F4	1		CARD READER
1A08	A	3' - 0"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	15		
1A09	A	3' - 0"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	F1	15		
1A10A	A	3' - 0"	7' - 0"	1 3/4"	HM	MP		1	HM	MP	F2,F4	5		
1A10B	A	3' - 0"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	16		
1A11	A	3' - 0"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	14		
1A12	A	3' - 6"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	24	45	
1A13	A	3' - 0"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	F1	15		
1A16	A	3' - 0"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	F1	15		
1A17	A	3' - 6"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	29		AUTO OPERATOR
1A18A	A	3' - 0"	7' - 0"	1 3/4"	GHM	MGP		1	GHM	MGP	F2,F4	3		CARD READER
1A18B	A	3' - 0"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	22		CARD READER
1A19	A	3' - 0"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	18		PRIVACY INDICATOR
1A20	A	3' - 0"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	12		
1A22	A	3' - 0"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	F1	15		
1A23	A	3' - 0"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	19		PUSH BUTTON
1A24	A	3' - 6"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	29		AUTO OPERATOR
1A25A	A	3' - 0"	7' - 0"	1 3/4"	GHM	MGP		1	GHM	MGP	F2,F4	3		CARD READER
1A25B	A	3' - 0"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	22		CARD READER
1A26	A	3' - 0"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	18		PRIVACY INDICATOR
1A28	NN	6' - 0"	7' - 0"	1 3/4"	SCV	WTF		3	HM	MP	D2	7	45	
1A29	NN	6' - 1 1/4"	7' - 11 1/2"	2 1/16"	ACW	PAWTF	FRG	3	ACW	PA/WTF	D6,D7	1		CARD READER
1A31	B	3' - 6"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	28		
1A32	A	3' - 0"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	15		
1A33	A	3' - 0"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	15		
1A34	A	3' - 0"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	15		
1A35	A	3' - 0"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	15		
1A37A	B	3' - 6"	7' - 0"	1 3/4"	SCV	WTF	CTG	1	HM	MP	D2	28		
1A37B	N	3' - 2"	7' - 2"	2 1/16"	ACW	PAWTF	CTG	1	ACW	PA/WTF	D6,D7	2		
1A38	A	4' - 0"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	14		
1A39	B	3' - 6"	7' - 0"	1 3/4"	SCV	WTF	CTG	1	HM	MP	D2	11		CARD READER
1A40	BB	6' - 0"	7' - 0"	1 3/4"	SCV	WTF	CTG	3	HM	MP	D2	26		CARD READER
2A00	B	3' - 0"	7' - 0"	1 3/4"	SCV	WTF	CTG	1	HM	MP	D2	9		CARD READER
2A01	A	4' - 0"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	23		
2A02	A	3' - 0"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	21		
2A03	B	3' - 0"	7' - 0"	1 3/4"	SCV	WTF	CTG	1	HM	MP	D2	11		CARD READER
2A04	A	3' - 0"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	13		
2A05	B	4' - 0"	7' - 0"	1 3/4"	SCV	WTF	FRG	1	HM	MP	D2	10	45	CARD READER
2A06	A	3' - 0"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	21		
2A07	B	3' - 0"	7' - 0"	1 3/4"	SCV	WTF	CTG	1	HM	MP	D2	17		
2A09A	B	3' - 6"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	16		
2A09B	A	3' - 6"	7' - 0"	1 3/4"	SCV	WTF		1	HM	MP	D2	11		CARD READER
2A30	B	4' - 0"	7' - 0"	1 3/4"	SCV	WTF	FRG	1	HM	MP	D2	25	45	

DOOR LEGEND

1. NUMBER: SEE FLOOR PLAN FOR DOOR NUMBER

2. DOOR ELEVATION: SEE TYPES BELOW



3. DOOR SIZE:

SEE SCHEDULE FOR WIDTH, HEIGHT AND THICKNESS

4. DOOR MATERIAL:

SCV = SOLID CORE W/ WOOD VENEER FACES
SCH = SOLID CORE W/ HARDBOARD FACES
SCP = SOLID CORE PLASTIC LAMINATE FACES
SCA = SOLID CORE ACROVYN FACES
HM = HOLLOW METAL
GHM = GALVANIZED HOLLOW METAL
AL = ALUMINUM & GLASS
ACW = ALUMINUM CLAD WOOD

5. DOOR FINISH:

WTF = WOOD TRANSPARENT FINISH
WOF = WOOD OPAQUE FINISH
MGP = METAL GALVANIZED PAINTED
MP = METAL PAINTED
AL = ANODIZED ALUMINUM
PL = PLASTIC LAMINATE

6. GLASS TYPE:

WG = 1/4" WIRE GLASS
CTG = 1/4" CLEAR TEMPERED GLASS
LG = 1/4" LEADED GLASS
FRG = 1/4" FIRE RATED GLASS

7. FRAME ELEVATION:

SEE HOLLOW METAL ELEVATION LEGEND

8. FRAME MATERIAL:

WD = WOOD
HM = HOLLOW METAL
GHM = GALVANIZED HOLLOW METAL
AL = ALUMINUM
KD = HOLLOW METAL KNOCK DOWN FRAME
HMLL = HOLLOW METAL, LEAD LINED

9. FRAME FINISH:

WTF = WOOD TRANSPARENT FINISH
WOF = WOOD OPAQUE FINISH
MGP = METAL GALVANIZED PAINTED
MP = METAL, PAINTED
AL = ANODIZED ALUMINUM
HMLL = HOLLOW METAL, LEAD LINED

10. FRAME DETAILS:

SEE FRAME DETAILS ON SHEET AE701

11. UL RATING:

20 M ; 45 M; ; 1 H ; 1.5 H ; 2 H ; 3 H

12. HARDWARE SET:

SEE HARDWARE SETS IN SPECIFICATIONS.

DOOR AND BORROWED LIGHT SCHEDULE GENERAL NOTES

1. DOOR NUMBERING MAY NOT BE SEQUENTIAL. DOORS ARE NUMBERED TO MATCH THE ROOM NUMBERING.

2. ALL FRAMES SHALL BE CAULKED CONTINUOUSLY TO WALL.

3. WHEREVER THERE IS A CRACK LEFT BETWEEN THE BOTTOM OF DOOR FRAME AND THE FINISH FLOOR, THE CONTRACTOR SHALL PROVIDE CAULKING TO SEAL CRACK.

4. ALL THRESHOLDS SHALL CONFORM TO THE REQUIREMENTS OF THE MOST CURRENT EDITION OF ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, THE AMERICAN WITH DISABILITIES ACT AND CHAPTER 11 OF THE BUILDING CODE.

5. NON-RATED DOORS MAY BE UNDERCUT ONE INCH MAXIMUM. DOORS IN RATED WALLS SHALL MEET THE REQUIREMENTS OF NFPA 80.

6. DOORS SCHEDULED TO HAVE A FIRE RATING LABEL SHALL HAVE A METAL LABEL PERMANENTLY AFFIXED TO BOTH THE DOOR AND FRAME. A VINYL LABEL AND EMBOSSED LABEL IN THE FRAME IS UNACCEPTABLE.

7. THE CONTRACTOR SHALL VERIFY THAT CLOSERS AND OTHER HARDWARE WILL ALLOW THE DOOR TO OPEN 180 DEGREES WHEN SUCH DOOR SWINGS ARE INDICATED ON THE FLOOR PLAN AND / OR THIS SCHEDULE.

8. ALL INTERIOR DOORS SHALL BE SOLID CORE, PRE-FINISHED UNLESS OTHERWISE NOTED IN THE SPECIFICATION.

9. ALL INTERIOR DOORS WITH CLOSER SHALL HAVE CLOSERS ADJUSTED TO 5 LB MAXIMUM PULL FORCE.

10. ALL DOORS WITH CLOSERS SHALL HAVE KICK PLATES.

11. DOORS SCHEDULED TO RECEIVE VIEW PANELS SHALL HAVE WOOD BEAD FRAME SURROUNDED IN SPECIES TO MATCH DOOR FINISH. FIRE RATED DOORS SHALL HAVE FIRE RATED WOOD BEAD.

12. ALL FRAMES SHALL BE 16 GAUGE, DOUBLE RABBETED AND PRIMED TO RECEIVE PAINT.

13. ALL HARDWARE IN RATED DOORS SHALL MEET THE REQUIREMENTS OF NFPA 80.

14. ALL STAIRWELL DOORS SHALL HAVE A MAXIMUM TEMPERATURE RISE OF 450 DEGREES FAHRENHEIT.

15. ALL EQUIPMENT STORAGE ROOM DOORS SHALL HAVE SWING CLEAR HINGES.

16. MOUNT THE METAL STOPS IN THE BORROWED LIGHTS ON THE "INSIDE" OF THE SPACE.

17. ALL VIEW PANELS IN 90 MIN DOORS SHALL HAVE ¼" WIRE GLASS OR EQUAL AS SPECIFIED. GLASS SIZE SHALL NOT EXCEED 100 SQUARE INCHES.

18. ALL VIEW PANELS IN 45 MIN OR 20 MIN DOORS SHALL HAVE ¼" WIRE GLASS OR EQUAL AS SPECIFIED. GLASS SIZE SHALL NOT EXCEED 1296 SQUARE INCHES.

19. ALL OTHER VIEW PANELS OR BORROWED LIGHTS NOT MENTIONED IN NOTE (17, 18, OR 19) TO HAVE ¼" TEMPERED GLASS.

DOOR FRAME DETAILS GENERAL NOTES

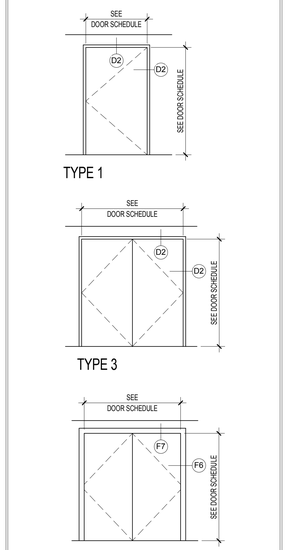
1. THROAT SIZE VARIES WITH STUD SIZES AND LAYERS OF GYPSUM WALLBOARD.

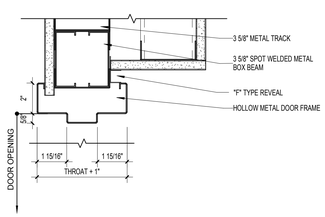
2. SEE FLOOR PLANS AND PARTITION TYPES FOR THROAT DIMENSIONS.

3. REFER TO STRUCTURAL DRAWING FOR LINTEL INFORMATION AT MASONRY OPENINGS.

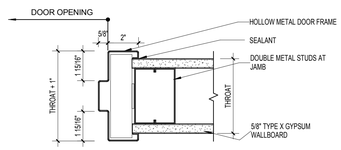
4. UNLESS NOTED OTHERWISE ALL DOOR FRAMES TO BE 6" FROM PERPENDICULAR WALLS. CROSS CORRIDOR SMOKE DOORS FRAMES TO BE 4" FROM PERPENDICULAR WALLS.

HOLLOW METAL ELEVATIONS LEGEND



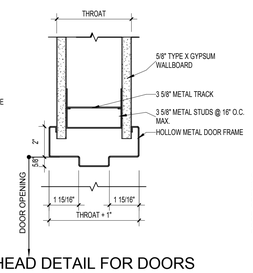


HEAD DETAIL

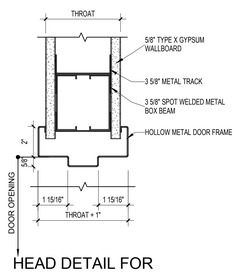


JAMB DETAIL

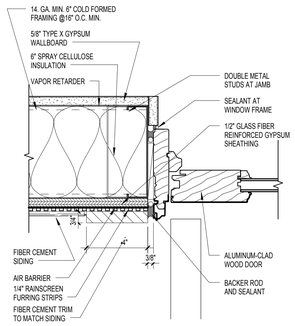
D2 FRAME DETAIL TYPE A
3" = 1'-0"



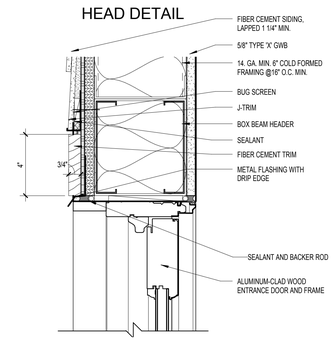
HEAD DETAIL FOR DOORS BELOW 4'-0"



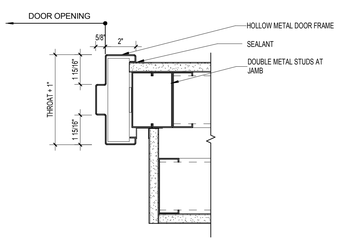
HEAD DETAIL FOR DOORS 4'-0" AND OVER



D6 FRAME JAMB DETAIL - SIDING WALL
3" = 1'-0"

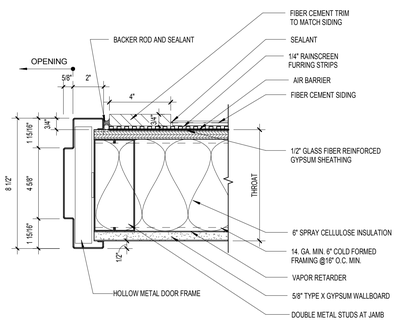


D7 FRAME HEAD DETAIL - SIDING WALL
3" = 1'-0"

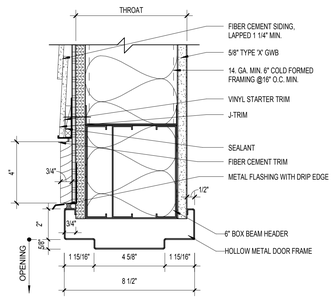


JAMB DETAIL

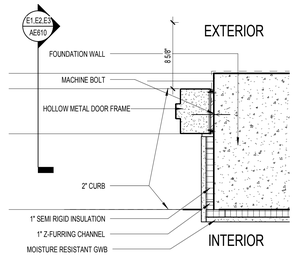
F1 FRAME DETAIL - CHASE WALL
3" = 1'-0"



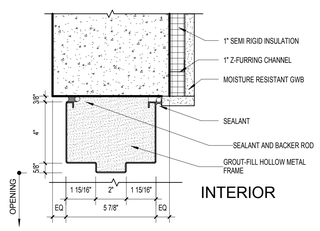
F2 FRAME JAMB DETAIL - SIDING WALL
3" = 1'-0"



F4 FRAME HEAD DETAIL - SIDING WALL
3" = 1'-0"



F6 FRAME JAMB DETAIL @ BASEMENT EXTERIOR DOOR
1 1/2" = 1'-0"



HEAD DETAIL

F7 FRAME HEAD DETAIL @ BASEMENT EXTERIOR DOOR
3" = 1'-0"

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer: Dewberry, 600 Parsippany Road, Suite 301, Parsippany, NJ 07054-3715, Tel (973) 739-0400, Fax (973) 730-9710

Structural Engineer: WZG, 180 W. Ridge Pike, Limerick, PA 19468, Tel (214) 329-5559

MEP Engineer: H.F. Lenz Company, 1407 Scalp Avenue, Johnstown, PA 15904, Tel (814) 269-9300, Fax (814) 269-9301

Environmental Consultant: SSM, 1047 North Park Road, P.O. Box 6307, Reading, PA 19610, Tel (610) 621-2000

Cost Estimator: International Consultants, Inc., 221 Chestnut Street, Suite 200, Philadelphia, PA 19106, Tel (215) 923-8888

ARCHITECT:

ARRAY healthcare facilities solutions

2520 Renaissance Boulevard, Suite 110
King of Prussia, PA 19406

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www.arrayhfs.com

Project Number	Scale
3468	As indicated

Drawing Title: DOOR AND BORROWED LIGHT SCHEDULES & DETAILS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	EBC	NH

VA Project Number: 595-109

Building Number: 34

Drawing Number: AE701

Dwg. 66 of 123

Office of Facilities Management

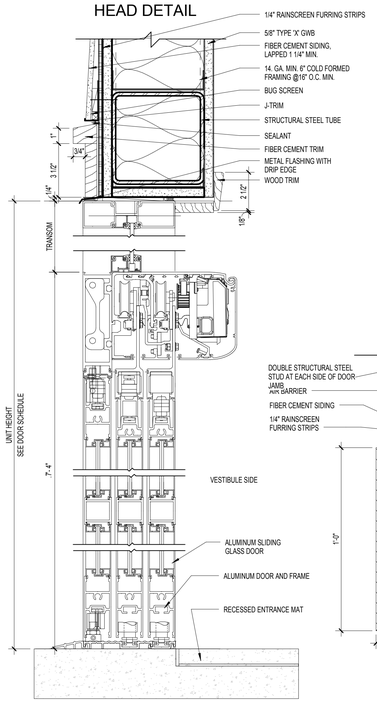
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

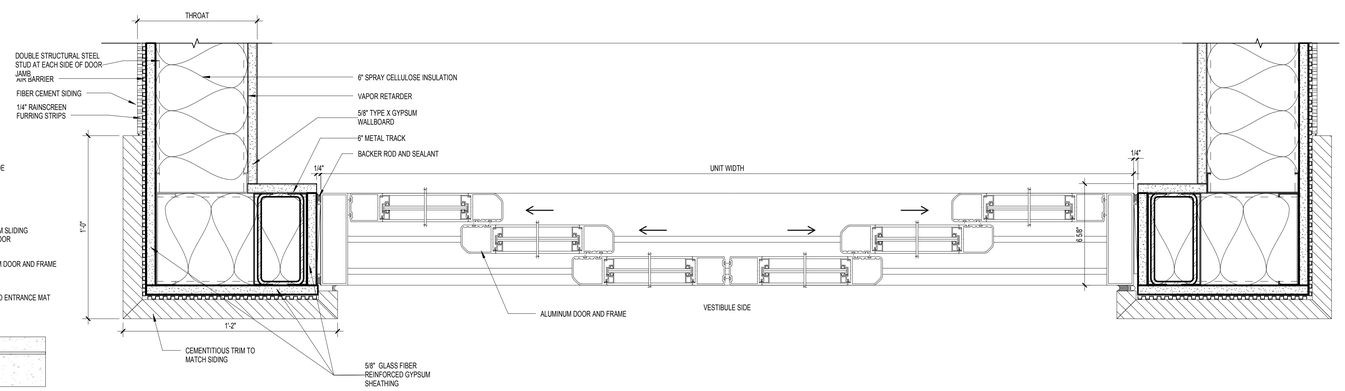
GENERAL NOTES

1. SEE SHEET AE701 FOR DOOR AND FRAME LEGENDS, GENERAL NOTES, SCHEDULE AND DETAILS.
2. SEE SHEET AE703 FOR WINDOW SCHEDULE.

HEAD DETAIL



SILL DETAIL



JAMB DETAIL

F1 FRAME DETAIL @ AUTOMATIC SLIDING DOOR - DOOR TYPE O
3" = 1'-0"

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer: Dewberry — 600 Parsippany Road, Suite 301, Parsippany, NJ 07054-3715, Tel (973) 739-9400, Fax (973) 730-9710

Structural Engineer: WZG — 180 W. Ridge Pike, Limerick, PA 19468, Tel (214) 329-5559

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Project Number	Scale
3468	As indicated

Drawing Title: FRAME DETAILS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	EBC	Author

VA Project Number: 595-109

Building Number: 34

Drawing Number: AE702

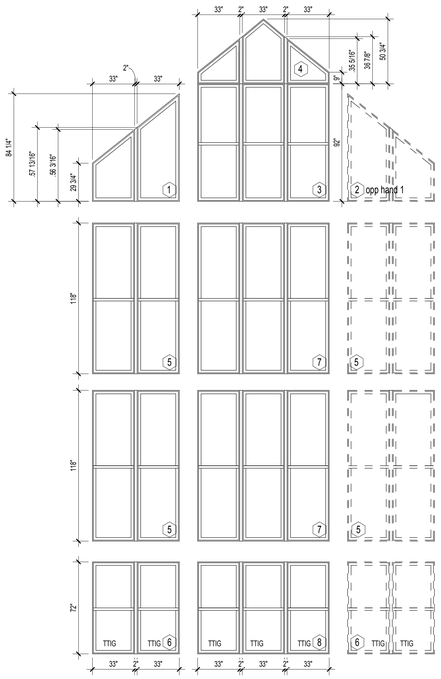
Dwg. 67 of 123

Office of Facilities Management

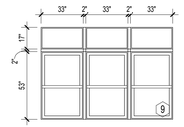
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

EXTERIOR WINDOWS



TYPES 1-8



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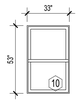
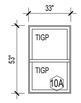
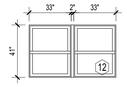


TYPE 10



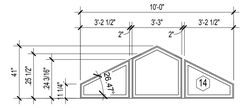
TYPE 10A

TYPE 11



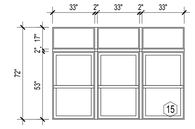
TYPE 12

TYPE 13

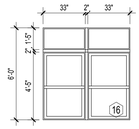


TYPE 14

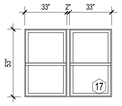
TYPE 14A (UNCLAD)



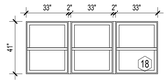
TYPE 15



TYPE 16



TYPE 17



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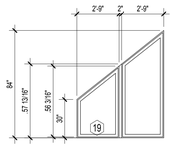

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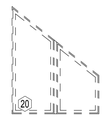
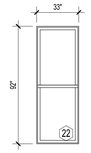


TYPE 20 - opp hand 19

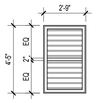
TYPE 21



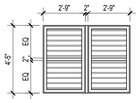
TYPE 22

TYPE 23

LOUVERS

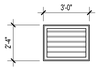


LOUVER TYPE L1



LOUVER TYPE L2

LOUVER TYPE L3

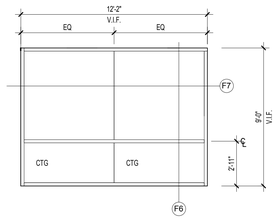


LOUVER TYPE L4

LOUVER TYPE L1A

LOUVER WITH BLANK-OFF PANEL

INTERIOR WINDOWS



C5 ALUMINUM FRAME ELEVATION
1/4" = 1'-0"

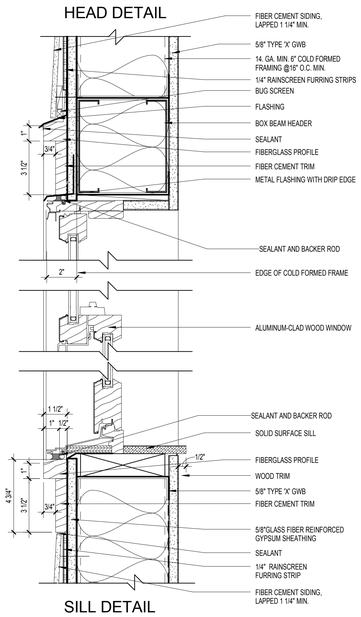
WINDOW LEGEND

1. WINDOW GROUP = (1)
2. ROUGH OPENING SIZE
3. ELEVATIONS: SEE ELEVATION THIS SHEET
4. WINDOW CONSTRUCTION:
   ALS = ALUMINUM STOREFRONT
   ALWD = ALUMINUM-CLAD WOOD WINDOW
5. FINISH:
   AD = ANODIZED
   PA = PAINTED ALUMINUM
   PAWTF = PAINTED ALUMINUM/WOOD TRANSPARENT FINISH
6. GLASS TYPE:
   CIG = 1" CLEAR INSULATED GLASS
   TIG = 1" TINTED INSULATED GLASS
   TIGP = 1" TINTED INSULATED GLASS WITH 1/4" POLYCARBONATE SHEET
   TTIG = 1" TINTED TEMPERED INSULATED GLASS

WINDOW FRAME GENERAL NOTES

1. FRAME SIZES TO BE 3/4" LESS IN BOTH DIRECTIONS THAN ROUGH OPENING SIZE.
2. ALL ROUGH OPENING SIZES SHOULD BE FIELD VERIFIED.
3. ALL EXTERIOR GLASS TO BE 1" LOW-E TINTED INSULATED GLASS (TIG), COLOR: GRAY, UNLESS NOTED OTHERWISE.
4. PROVIDE END CAPS AT ALL MULLIONS.
5. ALL EXTERIOR GLASS WITHIN 24" OF WALKING SURFACE WILL BE 1" LOW-E TINTED INSULATED TEMPERED GLASS, COLOR: GRAY.
6. ALL INTERIOR GLASS WITHIN 24" OF WALKING SURFACE WILL BE 1" CLEAR TEMPERED GLASS.
7. ALUMINUM-CLAD WOOD WINDOW COMBINATION ASSEMBLIES SHALL HAVE 2" WIDE VERTICAL MULLED MULLIONS.

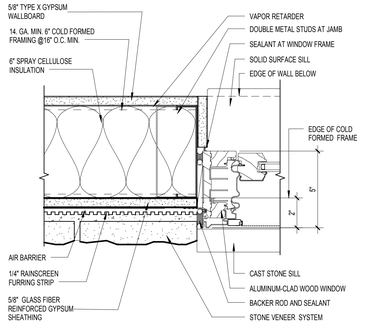
HEAD DETAIL



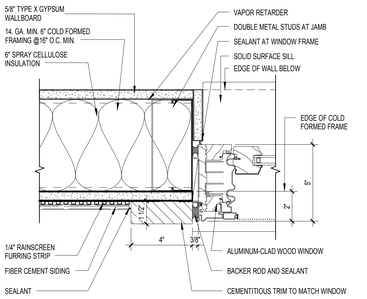
SILL DETAIL

F1 TYPICAL WINDOW FRAME DETAIL - SIDING WALL
3" = 1'-0"

HEAD DETAIL

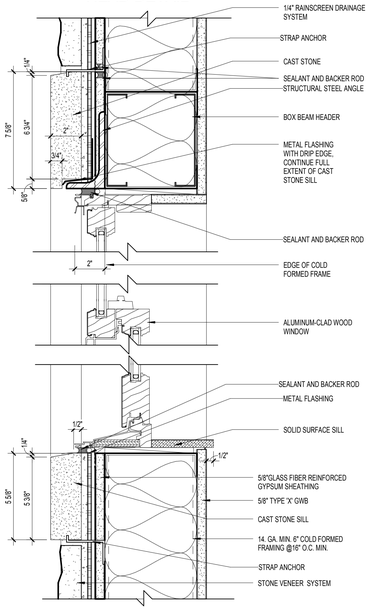


D2 WINDOW JAMB DETAIL - STONE WALL
3" = 1'-0"



F2 WINDOW JAMB DETAIL - SIDING WALL
3" = 1'-0"

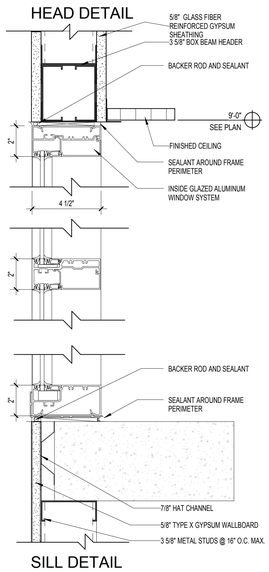
HEAD DETAIL



SILL DETAIL

F4 TYPICAL WINDOW FRAME DETAIL - STONE WALL
3" = 1'-0"

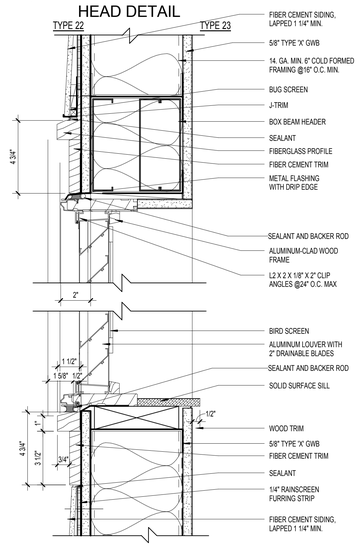
HEAD DETAIL



SILL DETAIL

F6 ALUMINUM FRAME DETAIL
3" = 1'-0"

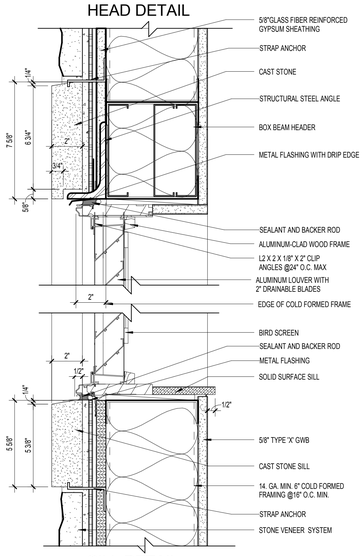
HEAD DETAIL



SILL DETAIL

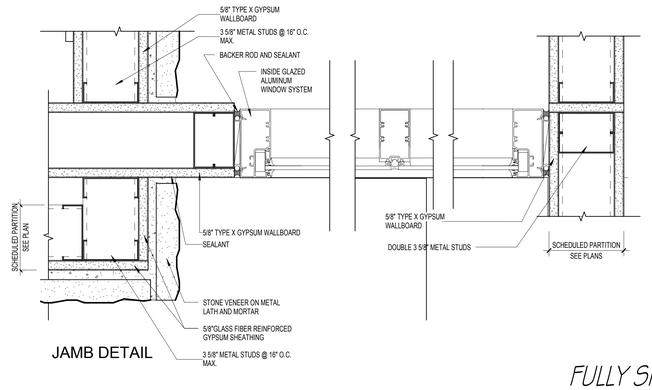
D7 LOUVER FRAME DETAIL - SIDING WALL
3" = 1'-0"

HEAD DETAIL



SILL DETAIL

D9 LOUVER FRAME DETAIL - STONE WALL
3" = 1'-0"



JAMB DETAIL

F7 ALUMINUM FRAME - JAMB
3" = 1'-0"

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer: Dewberry — 600 Parsippany Road, Suite 301, Parsippany, NJ 07054-3715, Tel (973) 739-9400, Fax (973) 739-9710

Structural Engineer: WZG — 180 W. Ridge Pike, Limerick, PA 19468, Tel (214) 329-5559

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ARCHITECT:

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Project Number	Scale
3468	As indicated

Drawing Title: WINDOW, LOUVER AND ALUMINUM FRAME SCHEDULE

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	Checker	Author

VA Project Number: 595-109

Building Number: 34

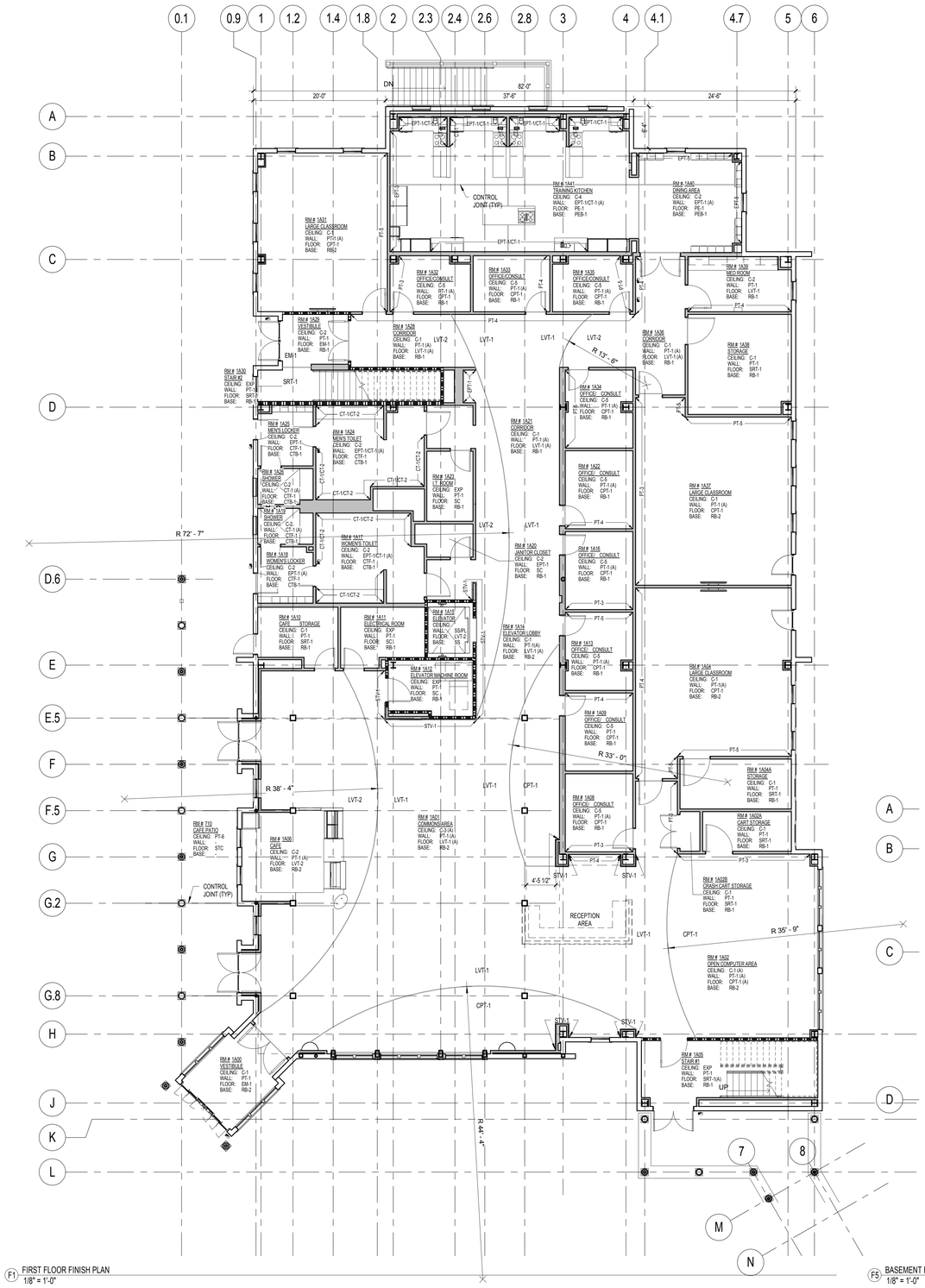
Drawing Number: AE703

Dwg. 68 of 123

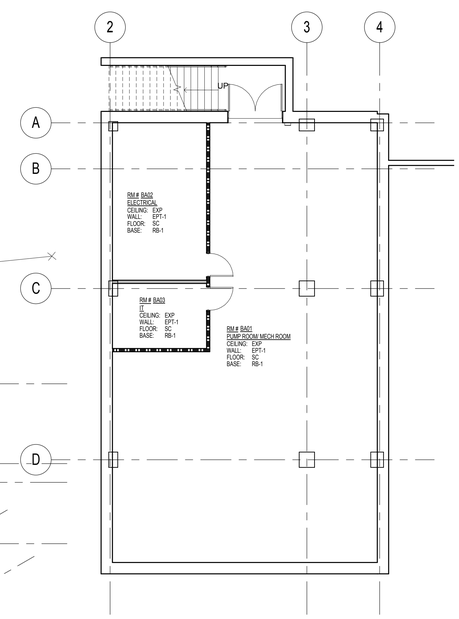
Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



F1 FIRST FLOOR FINISH PLAN
1/8" = 1'-0"



F5 BASEMENT FLOOR FINISH & PATTERN PLAN
1/8" = 1'-0"

FINISH SCHEDULE

AS REFERENCED IN SPEC SECTION 090600 SCHEDULE FOR FINISHES

GENERAL NOTES

FINISH CONTRACTOR MUST REVIEW ALL SPECIFICATIONS AND DRAWINGS PRIOR TO ORDERING MATERIALS AND COMMENCING FABRICATION AND INSTALLATION. MANY ITEMS ARE LONG-LEAD AND SHOULD BE ORDERED PROMPTLY. LOCATION DESCRIPTIONS ARE FOR REFERENCE ONLY AND ARE NOT INDICATIVE OF EVERY OCCURRENCE OF A PARTICULAR FINISH. REFER TO FINISH PLAN FOR EXACT LOCATIONS.

CEILING

WHEREVER POSSIBLE, GRIDS TO BE CENTERED IN THE ROOM ON THE CENTER LINE OF THE CEILING TILE. INSTALL NO TILE SMALLER THAN 6" WIDE.

C-1
DIMENSIONS: 2' x 2' x 3/4"
COLOR: WHITE

C-2
GYPSUM WALLBOARD
COLOR: PT-1, U.N.O.

C-3
GYPSUM WALLBOARD W/ ACOUSTIC TREATMENT
COLOR: WHITE

C-4
DIMENSIONS: 2' x 2' x 5/8"
COLOR: WHITE

C-5 (HIGH CAC/HIGH NRC)
DIMENSIONS: 2' x 2' x 5/8"
COLOR: WHITE

NOTE: WHERE THE FASCIA OF SOFFITS ALIGNS WITH THE ADJACENT PARTITION, PROVIDE 1/2" FRY REGLET REVEAL TO TERMINATE A MATERIAL OR COLOR. PLEASE REFER TO THE REFLECTED CEILING PLAN FOR LOCATIONS OF CEILING TILES.

PAINT

NOTE: ALL WALLS TO BE EGGSSHELL FINISH, U.N.O. TOILET ROOMS ARE TO BE SEMI-GLOSS WATER BASE EPOXY. ALL TRIM AND FRAMES TO BE SEMI-GLOSS FINISH. METAL PANELS TO BE PAINTED TO MATCH ADJACENT WALL. ALL GWB CEILINGS AND SOFFITS TO BE FLAT FINISH, U.N.O. SOFFITS FACE AND UNDERSIDE ARE TO BE PAINTED TO MATCH.

PT-1
FOR USE AS GENERAL PAINT, U.N.O.

PT-2
FOR USE AS DOOR FRAME PAINT.

PT-3 (BLUE GRAY)
FOR USE AS ACCENT PAINT.

PT-4 (GREEN)
FOR USE AS ACCENT PAINT..

PT-5 (YELLOW)
FOR USE AS ACCENT PAINT.

PT-6 (WHITE)
FOR USE AS EXTERIOR GWB CEILING PAINT & TRIM PAINT (AT STONE)

PT-7 (DARK BLUE)
FOR USE AS EXTERIOR TRIM PAINT

EPT-1
FOR USE AS GENERAL PAINT IN TRAINING KITCHEN

EPT-3 (TO MATCH PT-3)
FOR USE AS ACCENT PAINT IN TRAINING KITCHEN

EPT-5 (TO MATCH PT-5)
FOR USE AS ACCENT PAINT IN TRAINING KITCHEN

CARPET

CPT-1 (NEUTRAL)
DIMENSIONS: 50CM X 50CM TILE
INSTALLATION METHOD: ASHLAR

LUXURY VINYL TILE

LVT-1
MEDIUM TONE WOOD LOOK
DIMENSIONS: 6" x 36"
EDGE: SQUARE

LVT-2
LIMESTONE VISUAL
DIMENSIONS: 12" x 18"
EDGE: SQUARE

SOLID RUBBER TILE

SRT-1
RUBBER WITH CORK PARTICLE VISUAL
DIMENSIONS: 12" X 12"

RUBBER BASE

RB-1
STYLE: COVE WITH TOE
DIMENSIONS: 4" H x 120' COIL

RB-2
STYLE: MOLDED
DIMENSIONS: 6"H

STAMPED CONCRETE

STC-1
TO MATCH ARCHITECTS SAMPLE
PROVIDE CONTROL JOINTS AS INDICATED ON DRAWINGS

CERAMIC TILE

CT-1
TRAVERTINE VISUAL
DIMENSIONS: 12"X24"
GROUT WIDTH: 1/8"
GROUT COLOR: G-1 (BEIGE)

CT-2 (BLUE)
FINISH: MATTE
DIMENSIONS: 6" x 12"
GROUT WIDTH: 1/16"
GROUT COLOR: G-1 (BEIGE)

CTF-1
TRAVERTINE VISUAL
DIMENSIONS: 2" x 2"
GROUT COLOR: G-1 (BEIGE)
FOR USE AS SHOWER FLOOR TILE

CTB-1
TRAVERTINE VISUAL
DIMENSIONS: 6" x 12"
GROUT WIDTH: 1/8"
GROUT COLOR: G-1 (BEIGE)
FOR USE AS WALL BASE

ENTRANCE MAT

EM-1
STYLE: RECESSED ENTRANCE GRID W/ STAINLESS STEEL & CARPET INSERTS
COLOR: 1 1/8"D

POURED EPOXY

PE-1
SEAMLESS RESILIENT URETHANE FLOOR SYSTEM
COLOR: GRAY W/ COLORED CHIPS

PEB-1
STYLE: 6"H INTEGRAL COVE BASE
COLOR: TO MATCH PE-1

PLASTIC LAMINATE

PL-1
MEDIUM TONE WOOD LOOK
FINISH: SUEDE

SOLID SURFACE POLYMER

SSP-1
WHITE W/ NEUTRAL AGGREGATE
DIMENSION: 1/2" THICK

SSP-2
WHITE
FOR USE AS INTEGRAL SINK

DECORATIVE GLAZING

DG-1
STYLE: CLEAR
FOR USE AS VISION GLASS ON 2ND FLOOR BALCONY

STONE VENEER

STV-1
STYLE: LEDGESTONE
COLOR: SILVER
SIZE: 1-2"H X 4-14"L
FOR USE AS NOTED ON PLANS

CORNER GUARD

CG-1 (WOOD)
2" WING
FOR USE AS NOTED ON PLANS

RUNNING TRIM

WM-1
5 3/4"H x 3/4" TRIM W/ 1/4" BEVELED EDGES
COLOR: S-1
FOR USE AS COLUMN CAP AT STONE CLAD COLUMNS

WM-2
WIDTH: AS INDICATED ON ELEVATIONS
HEIGHT: 5 3/4"H x 3/4" TRIM
COLOR: S-1
FOR USE AS TRIM AROUND WINDOWS

WM-3
STYLE: ENGINEERED WOOD 3 1/2"D X 6"H
COLOR: TO MATCH SPECIES & STAIN OF TRUSS SYSTEM
FOR USE AS MANTEL

FINISH GENERAL NOTES

1. WHEN AN (A) IS IN THE FINISH TAG IT REFERS TO AN ACCENT FINISH. SEE THE FINISH / FLOOR PATTERN PLANS OR ELEVATIONS FOR TYPE AND LOCATION.

2. TYPICAL ROOM FINISHES ARE C-1 / PT-1 / LVT-1 / RB-1.

3. FLASH PATCH FLOORING AS REQUIRED TO PROVIDE A FLUSH TRANSITION AT ALL DIFFERENT FLOORING MATERIALS.

4. ALL GWB SOFFITS ARE TO BE PAINTED. FASCIA AND UNDERSIDE ARE TO MATCH. PROVIDE FRY REGLET REVEALS AS A MATERIAL OR COLOR TRANSITION. GWB SOFFITS ARE NEVER TO RECEIVE VINYL WALL COVERING.

5. ALL FURNITURE AND FURNITURE PANELS ARE N.I.C., UNLESS NOTED OTHERWISE.

6. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ITEMS REQUIRING FINISH SELECTIONS THAT ARE NOT CLARIFIED IN THE CONTRACT DOCUMENTS.

7. CEILING ACCESS PANELS, HVAC DIFFUSERS/GRILLES SHALL BE WHITE UNLESS NOTED OTHERWISE.

INTERIOR FINISH MATERIAL CODES

CODE	MATERIALS
C	CEILING
CG	CORNER GUARD
CPT	CARPET
CR	CHAIR RAIL
CT	CERAMIC TILE
DG	DECORATIVE GLAZING
DPG	DECORATIVE PLASTIC GLAZING
EPT	EPOXY PAINT
EM	ENTRANCE MAT
EX	EXISTING
EXP	EXPOSED STRUCTURE
FWP	FABRIC WRAPPED PANEL
KP	KICK PLATE
LVT	LUXURY VINYL TILE
PE	POURED EPOXY FLOORING
PEB	POURED EPOXY INTEGRAL BASE
PL	PLASTIC LAMINATE
PT	PAINT
RB	RUBBER BASE
RD	RUBBER DISC FLOORING
RST	RUBBER STAIR TREADS
S	STAIN/COLORWASH
SC	SEALED CONCRETE
SG	SEMI-GLOSS PAINT
SRT	SOLID RUBBER TILE
SS	STAINLESS STEEL
SSP	SOLID SURFACE POLYMER
WM	WOOD MOLDINGS/STANDING AND RUNNING TRIM
WS	WALL SCONCE
WT	WINDOW TREATMENT

FLOOR PATTERN GENERAL NOTES

1. PRIOR TO ORDERING MATERIAL, CONTRACTOR SHALL SUBMIT TO ARCHITECT COORDINATED FLOOR PATTERN PLANS FOR REVIEW AND APPROVAL. THE FLOOR PATTERN PLAN SHALL SHOW COMPLETE LAYOUTS, DIMENSIONS AND STARTING POINTS.

2. ALL FLOOR SUBSTRATES ARE TO BE COMPLETELY FREE OF DIRT AND ADHESIVE RESIDUE PRIOR TO FLOOR INSTALLATION.

3. ALL FLOORING MATERIALS TO BE ADHERED WITH THE MANUFACTURER'S RECOMMENDED SUBSTRATE CONDITIONS AND ADHESIVE. ALL FINISHED FLOORING SURFACES ARE TO BE PREPARED SO THAT THEY ALIGN WITHOUT TRANSITION ACCESSORIES. MOST FLOOR SUBSTRATES REQUIRE MOISTURE AND ALKALI TESTING PRIOR TO INSTALLATION. THE RESULTS OF THE TESTING ARE TO BE FORMALIZED WITH A DESCRIPTION OF THE CURING PROCESS USED ON THE SUBSTRATE, THEN DELIVERED IN WRITING TO EACH MANUFACTURER AND THE INTERIOR DESIGNER.

4. ALL FLOORING TO CONTINUE UNDER ALL CASEWORK.

5. SOLID RUBBER TILE FLOORING IS NOT TO BE WELDED, UNLESS NOTED OTHERWISE.

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

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Project Number	Scale
3468	As indicated

Drawing Title: BASEMENT & FIRST FLOOR FINISH & PATTERN PLAN

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	EBC	NS

VA Project Number: 595-109

Building Number: 34

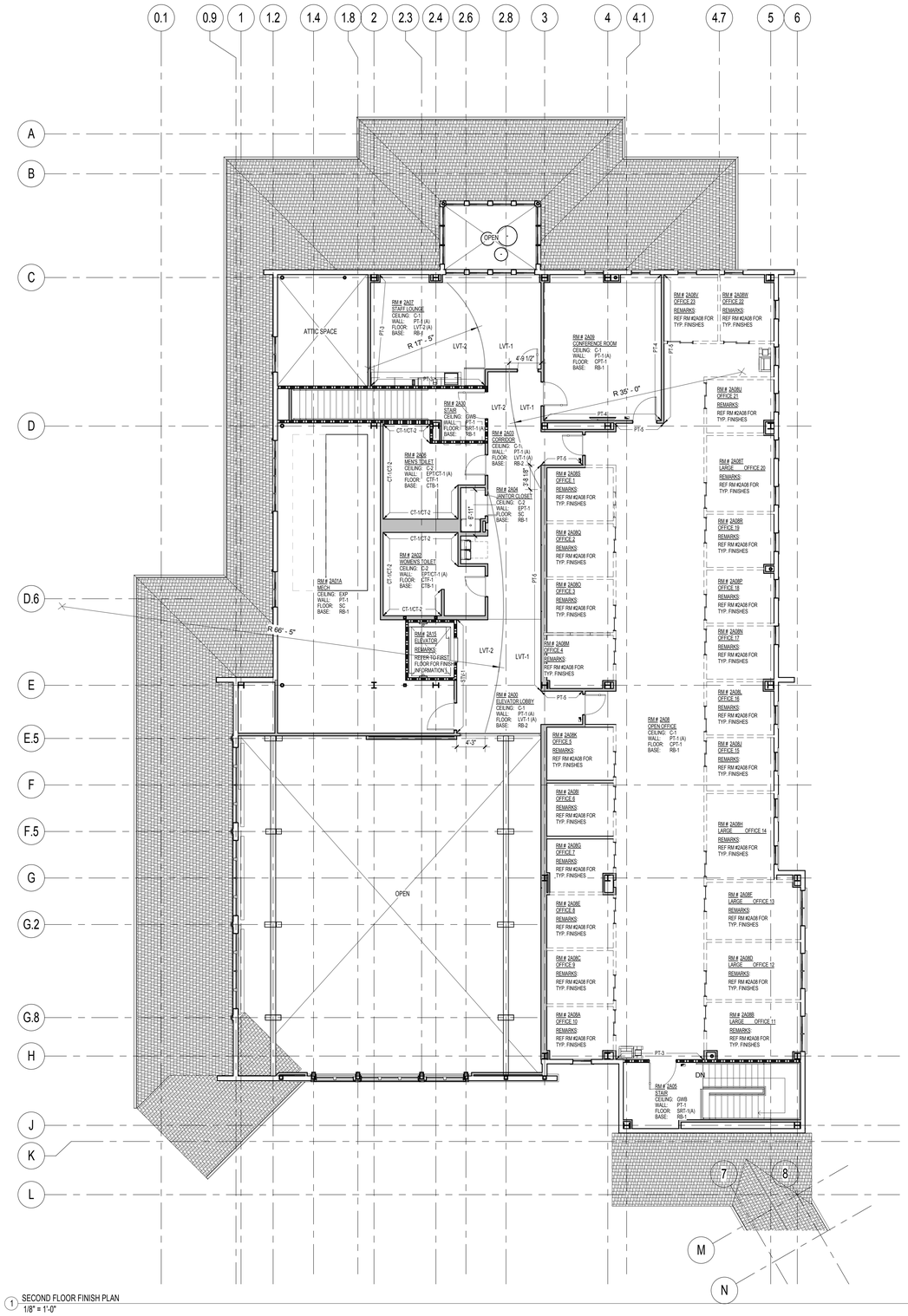
Drawing Number: AF111

Dwg. 69 of 123

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 SECOND FLOOR FINISH PLAN
1/8" = 1'-0"

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

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Project Number	Scale
3468	1/8" = 1'-0"

Drawing Title: SECOND FLOOR FINISH & PATTERN PLAN

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date: 07/27/2012 | Checked: EBC | Drawn: NS

VA Project Number: 595-109

Building Number: 34

Drawing Number: AF121

Dwg. 70 of 123

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	TYPICAL FLUORESCENT PENDANT MOUNTED FIXTURE
	TYPICAL FLUORESCENT RECESSED FIXTURE
	TYPICAL FLUORESCENT SURFACE MOUNTED FIXTURE
	TYPICAL FLUORESCENT WALL MOUNTED FIXTURE
	TYPICAL FLUORESCENT EMERGENCY FIXTURE
	DOUBLE FACE EXIT SIGN
	SINGLE FACE EXIT SIGN
	RECESSED MOUNTED DOWN LIGHT TYPE FIXTURE
	RECESSED MOUNTED WALL WASH, DOWN LIGHT TYPE FIXTURE
	TYPICAL ROUND PENDANT MOUNTED LED FIXTURE
	FLOOD LIGHT FIXTURE

SWITCH LEGEND

SYMBOL	DESCRIPTION
$	SINGLE POLE SWITCH
$2	DOUBLE POLE SWITCH
$3	3-WAY SWITCH
$4	4-WAY SWITCH
$a $b	INDICATES TWO SWITCHES W/ INNER AND OUTER LAMPS SEPARATELY SWITCHED
$D	IN WALL - TYPE DIMMER, RATING AS NOTED
$M	SINGLE PHASE MANUAL MOTOR SWITCH WITH OVERLOADS
$ LV	LOW VOLTAGE, NON-DIGITAL, SWITCH
$L1	SINGLE BUTTON, ON/OFF, DIGITAL LOW VOLTAGE SWITCH
$L1 D	SINGLE BUTTON, ON/OFF, DIGITAL DIMMING LOW VOLTAGE SWITCH
$L2	TWO BUTTON, ON/OFF, DIGITAL LOW VOLTAGE SWITCH
$L2 D	TWO BUTTON, ON/OFF, DIGITAL DIMMING LOW VOLTAGE SWITCH
$L2 ab	TWO BUTTON, INBOARD-OUTBOARD/0-50%-100% LIGHT OUTPUT/ON-OFF, DIGITAL LOW VOLTAGE SWITCH
$L2 ab D	TWO BUTTON, INBOARD-OUTBOARD/0-50%-100% LIGHT OUTPUT/ON-OFF/DIMMING, DIGITAL LOW VOLTAGE SWITCH
$L3 ab D	FIVE BUTTON, INBOARD-OUTBOARD/0-50%-100% LIGHT OUTPUT/ON-OFF, DIGITAL DIMMING LOW VOLTAGE SWITCH
$L5 ab D	FIVE BUTTON, INBOARD-OUTBOARD/0-50%-100% LIGHT OUTPUT/ON-OFF, DIGITAL DIMMING LOW VOLTAGE SWITCH

LIGHTING CONTROLS LEGEND

SYMBOL	DESCRIPTION
D	DAYLIGHT SENSOR
OS	CEILING MTD OCCUPANCY SENSOR
P	PHOTO CELL
J RC	ABOVE CEILING, ON/OFF DIGITAL ROOM CONTROLLER
J DRC	ABOVE CEILING, ON/OFF/0-10V DIMMING, DIGITAL ROOM CONTROLLER
J IR	ABOVE CEILING, DIGITAL, ISOLATED RELAY INTERFACE

RECEPTACLES LEGEND

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE CONNECTED TO EMERGENCY POWER SYSTEM
2	DOUBLE DUPLEX RECEPTACLE
AB	DUPLEX RECEPTACLE - ABOVE COUNTER
AB GFI	DUPLEX GROUND FAULT INTERRUPTER RECEPTACLE ABOVE COUNTER
GFI	DUPLEX GROUND FAULT INTERRUPTER TYPE RECEPTACLE
IG	DUPLEX ISOLATED GROUND TYPE RECEPTACLE
TR	DUPLEX, TAMPER RESISTANT, GROUNDING TYPE RECEPTACLE
TV	TELEVISION POWER OUTLET - 12" BELOW CEILING UNLESS NOTED OTHERWISE
WC	WATER COOLER - DUPLEX RECEPTACLE
WP	DUPLEX WEATHERPROOF RECEPTACLE
F	DUPLEX RECEPTACLE - MOUNTED FLUSH IN FLOOR (SEE DETAIL)
P	DUPLEX RECEPTACLE - POKE THRU (SEE DETAIL)
TS	DUPLEX RECEPTACLE FOR TOUCH SCREENS
	SPECIAL PURPOSE RECEPTACLE - RATING AS NOTED
	COMBINATION DUPLEX RECEPTACLE/INFORMATION OUTLET FLUSH MOUNTED IN FLOOR
	MULTI-OUTLET ASSEMBLY WITH NEMA 5-20 RECEPTACLES, SPACING OF RECEPTACLES AS INDICATED ON FLOOR PLANS

POWER LEGEND

SYMBOL	DESCRIPTION
CB	ENCLOSED CIRCUIT BREAKER
	FINAL CONNECTION BY EC TO EQUIPMENT
GD	FINAL CONNECTION BY EC TO GARBAGE DISPOSER 120V-1ø-10A
ACCU	CONNECTION TO AIR COOLED CONDENSING BY EC
ADO	CONNECTION AUTOMATIC DOOR OPERATOR BY EC - 120V-1ø
FCU	CONNECTION TO FAN COIL UNIT BY EC - 208V-1ø
DHW	FINAL CONNECTION TO SECURE DOOR CONTROLLER BY EC - 120V-1ø
CF	FINAL CONNECTION TO CEILING FAN BY EC - 120V-1ø
MSPS	FINAL CONNECTION TO MOTORIZED SHADE POWER SUPPLY BY EC - 120V-1ø
MSM	FINAL CONNECTION TO MOTORIZED SHADE MICROPROCESSOR BY EC - 120V-1ø
MS	FINAL CONNECTION TO MOTORIZED SHADE BY EC - 120V-1ø
ACCU	FINAL CONNECTION TO AIR COOLED CONDENSING UNIT BY EC - 208V-1ø
SSAHU	FINAL CONNECTION TO SPLIT SYSTEM AIR HANDLING UNIT BY EC - 208V-1ø
CP	FINAL CONNECTION TO CONDENSATE PUMP BY EC - 120V-1ø
IANN	FINAL CONNECTION TO LIGHTING INVERTER ANNUNCIATOR PANEL BY EC - 120V-1ø
LF	FINAL CONNECTION TO CAFE LIGHT FIXTURE. LIGHT FIXTURE FURNISHED BY OTHERS, INSTALLED BY EC - 120V-1ø
	COMBINATION DISCONNECT SWITCH AND STARTER
	FUSED DISCONNECT SWITCH
	NON-FUSED DISCONNECT SWITCH
VFD	VARIABLE FREQUENCY DRIVE, PROVIDED BY EC. REFER TO SPECIFICATIONS FOR DETAILS, SIZE AS INDICATED ON FLOOR PLANS
M	MOTOR - RATING AS NOTED
M CUH	CABINET UNIT HEATER - 120V-1ø
M HUH	HORIZONTAL UNIT HEATER - 120V-1ø
M MOD	MOTOR OPERATED DAMPER - 120V-1ø
J	JUNCTION BOX
J VVB	JUNCTION BOX WITH 120V-1ø BRANCH CIRCUIT FOR VARIABLE VOLUME BOX (VVB) TRANSFORMER - WIRING TO VVB BY EC, COORDINATE WITH HC ON FINAL LOCATION OF JUNCTION BOX
J MSC	EMPTY 4"x4" OUTLET BOX FOR MOTORIZED SHADE CONTROLLER. SHADE CONTROLLER PROVIDED BY OTHERS
J PFF	FLOOR MOUNTED JUNCTION BOX, SIZE AS REQUIRED, FOR POWER FEEDS TO FURNITURE SYSTEM. PROVIDE 5', 10', AND 20' FLEXIBLE METAL CONDUITS WHIPS FROM JUNCTION BOX, EC SHALL TERMINATE WHIPS AT FURNITURE SYSTEM
J TFF	FLOOR MOUNTED JUNCTION BOX, SIZE AS REQUIRED, FOR TELECOMMUNICATIONS FEEDS TO FURNITURE SYSTEM. PROVIDE 5', 10', AND 20' FLEXIBLE METAL CONDUITS WHIPS FROM JUNCTION BOX, EC SHALL TERMINATE WHIPS AT FURNITURE SYSTEM
ARA MS	AREA OF RESCUE ASSISTANCE - MASTER STATION
ARA RS	AREA OF RESCUE ASSISTANCE - REMOTE STATION
ARA	AREA OF RESCUE ASSISTANCE SIGN - SINGLE FACE - 120V-1ø - McPHILBEN CATALOG NUMBER: 30VL-1-P-12-W-RW-ARA3 OR EQUIVALENT
ARA	AREA OF RESCUE ASSISTANCE SIGN - TWO SIDED - 120V-1ø - McPHILBEN CATALOG NUMBER: 30VL-2-P-12-W-RW-ARA3 OR EQUIVALENT

ELECTRICAL LEGEND (Misc.)

SYMBOL	DESCRIPTION
	ELECTRICAL PANEL BOARD - SURFACE MOUNTED
1 OR 1	INDICATES NOTES ELSEWHERE
ø	PHASE
	SWITCH LEG
	BRANCH CIRCUIT
	SWITCHED CIRCUIT
	HOMERUN TO PANEL BOARD - 3 #12-3/4"C UNO
8"x4"	ABOVE CEILING CABLE TRAY - SIZE AS NOTED ON DRAWINGS

NURSE CALL SYSTEM LEGEND

SYMBOL	DESCRIPTION
J NE	EMPTY 8"x4" OUTLET BOX WITH BLANK COVER FOR NURSE CALL SYSTEM EMERGENCY STATION. FROM OUTLET BOX, PROVIDE 3/4"C. W/ PULLCORD TO CABLE TRAY AND CAP CONDUIT WITH INSULATED BUSHING. NURSE CALL EMERGENCY STATION PROVIDED BY VA
J NDL	EMPTY 8"x4" OUTLET BOX WITH BLANK COVER FOR NURSE CALL SYSTEM DOME LIGHT. FROM OUTLET BOX, PROVIDE 3/4"C. W/ PULLCORD TO CABLE TRAY AND CAP CONDUIT WITH INSULATED BUSHING. NURSE CALL DOME LIGHT PROVIDED BY VA
J NS	EMPTY 8"x4" OUTLET BOX WITH BLANK COVER FOR NURSE CALL SYSTEM STAFF/DUTY STATION. FROM OUTLET BOX, PROVIDE 3/4"C. W/ PULLCORD TO CABLE TRAY AND CAP CONDUIT WITH INSULATED BUSHING. NURSE CALL STAFF/DUTY STATION PROVIDED BY VA

NOTE:
FOR THE ABOVE OUTLET BOXES FOR NURSE CALL SYSTEM DEVICES, CONFIRM WITH VA EXACT OUTLET BOX SIZE REQUIRED FOR NURSE CALL SYSTEM DEVICES.

TELECOMMUNICATIONS LEGEND

SYMBOL	DESCRIPTION
	DATA OUTLET
	COMMUNICATION OUTLET
	TELEPHONE OUTLET - MOUNTED 18" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED
W	WALL TELEPHONE OUTLET
WAP	WIRELESS ACCESS POINT DATA OUTLET
	DATA/TELEPHONE OUTLET MOUNTED FLUSH IN FLOOR
TV	TELEVISION OUTLET - MOUNTED 12" BELOW FINISHED CEILING, UNLESS OTHERWISE NOTED

TELECOMMUNICATIONS TAG

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FIRST DIGIT REPRESENTS FLOOR JACKS IS TO BE PROVIDED ON

LAST THREE DIGITS REPRESENT QUANTITY OF JACK(S) ON FLOOR

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
ANN	FIRE ALARM ANNUNCIATOR PANEL
IAM	INDIVIDUAL ADDRESSABLE MODULE
FACP	FIRE ALARM SYSTEM CONTROL PANEL
FAEP	FIRE ALARM SYSTEM EXTENDER PANEL
PIV	FIRE ALARM SYSTEM SUPERVISED POST INDICATOR VALVE BY OTHERS - WIRED BY EC
ZAM	ZONE ADDRESSABLE MODULE
S FA	FIRE ALARM SYSTEM AUDIO/VISUAL TYPE SPEAKER W/ ADA AND MASS NOTIFICATION STROBES
F	FIRE ALARM SYSTEM MANUAL PULL STATION
F DD	FIRE ALARM SYSTEM DUCT DETECTOR BY EC. INSTALLED BY HC. ALARM WIRING BY EC. INTERLOCK WIRING TO HVAC EQUIPMENT BY HC (REFER TO DETAIL)
F DH	FIRE ALARM SYSTEM - AUTOMATIC DOOR HOLDER UNIT, BY OTHERS - WIRED BY EC
F FS	FIRE ALARM SYSTEM - FLOW SWITCH FOR SPRINKLER SYSTEM
F SV	FIRE ALARM SYSTEM - SUPERVISED VALVE FOR SPRINKLER SYSTEM
F TS	FIRE ALARM SYSTEM - TAMPER SWITCH FOR SPRINKLER SYSTEM
F H	FIRE ALARM SYSTEM HEAT DETECTOR
F RX	FIRE ALARM SYSTEM BEAM RECEIVER, MOUNT 12'-0" AFF
F S	FIRE ALARM SYSTEM SMOKE DETECTOR - PHOTO-ELECTRIC
F SD	SMOKE DAMPER (REQUIRES 120V = 1Ø)
F SE	FIRE ALARM SYSTEM ELEVATOR RECALL SMOKE DETECTOR
F TX	FIRE ALARM SYSTEM BEAM TRANSMITTER, MOUNT 12'-0" AFF
	FIRE ALARM SYSTEM AND MASS NOTIFICATION STROBES

SOUND SYSTEM LEGEND

SYMBOL	DESCRIPTION
S	SOUND SYSTEM RECESSED 8" DIAMETER CEILING MOUNTED SPEAKER - ROUND BAFFLE
S W	WALL MOUNTED 8" DIAMETER ROUND SPEAKER WITH INTEGRAL VOLUME CONTROL
S H	WALL MOUNTED HORN TYPE SPEAKER
MJ	SOUND SYSTEM MICROPHONE JACK

ELECTRICAL SINGLE LINE SYMBOL LEGEND

SYMBOL	DESCRIPTION
Δ Y	TRANSFORMER
	NON-DRAWOUT TYPE CIRCUIT BREAKER (600V OR LOWER)
	REMOVABLE/DRAWOUT CIRCUIT BREAKER (600V OR BELOW)
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH (600V OR LOWER)
	FUSED DISCONNECT SWITCH (600V OR ABOVE)
	FUSE (600V OR ABOVE)
	FUSE (600V OR LOWER)
M	MOTOR
	CURRENT TRANSFORMER - RATIO AS INDICATED ON PLANS
	POTENTIAL TRANSFORMER - PRIMARY AND SECONDARY VOLTAGES AS INDICATED ON PLANS
M	DIGITAL MULTIMETER
	GROUND (EARTH)
(+) (-)	BATTERY
	NORMALLY OPEN CONTACT (MAKE)
	NORMALLY CLOSED CONTACT (BREAK)
	RECTIFIER CHARGER
	INVERTER
	STATIC SWITCH
MCB XXXAF XXXAT PNL 'XXX'	PANELBOARD (MAIN CIRCUIT BREAKER)

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

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Project Number: 3468
Scale: AS INDICATED

Drawing Title: ELECTRICAL SYMBOLS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date: 07/27/2012 | Checked: TME | Drawn: RJD

VA Project Number: 595-109

Building Number: 34

Drawing Number: ES001

Dwg. 102 of 123

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

LIGHTING CONTROL SEQUENCE:

THE FOLLOWING IS A GENERAL DESCRIPTION REGARDING THE OPERATION OF THE LIGHTING SYSTEM WITHIN THE FACILITY. IF TIME SCHEDULE OR SPECIFIC ON/OFF TIMES ARE NOTED BELOW, SUBMIT TO VA SAID SCHEDULE/TIMES FOR APPROVAL BEFORE PROGRAMMING LIGHTING CONTROL PANEL(S). ALL OCCUPANCY SENSORS SHALL FUNCTION IN A "MANUAL ON, AUTOMATIC OFF" MANNER.

CORRIDOR LIGHTING

CORRIDOR LIGHTS SHALL BE MANUALLY CONTROLLED VIA LOW VOLTAGE SWITCHES, LOCATIONS AS SHOWN ON THE DRAWINGS. AUTOMATIC SHUT-OFF OF CORRIDOR LIGHTS SHALL BE ACCOMPLISHED VIA LIGHTING CONTROL RELAY PANEL. LIGHTING WILL TOGGLE ON/OFF FIVE MINUTES BEFORE AUTOMATIC SHUTOFF TO MAKE ANYONE IN OCCUPIED SPACE AWARE LIGHTING IS ABOUT TO BE TURNED OFF. ACTIVATION OF LOW VOLTAGE SWITCH DURING THIS FIVE MINUTE SPAN WILL DELAY AUTOMATIC SHUTOFF FOR A MINIMUM OF THIRTY MINUTES.

AUTOMATIC SHUTOFF SHALL OCCUR ON A TIME SCHEDULE APPROVED BY THE VA; DEFAULT TIME SCHEDULE SHALL BE LIGHTS ARE 'ON' FROM 6AM TO 8PM.

EGRESS EMERGENCY LIGHTING

CORRIDOR/STAIRWELL EMERGENCY LIGHTS SHALL REMAIN 'ON' AT ALL TIMES THE BUILDING IS OCCUPIED. IF VA DESIRES LIGHTS TO BE TURNED OFF DURING TIMES WHEN BUILDING IS UNOCCUPIED, AUTOMATIC SHUTOFF SHALL BE ACCOMPLISHED VIA LIGHTING CONTROL RELAY PANEL. IF AUTOMATIC SHUTOFF IS DESIRED, RELAY(S) SHALL FUNCTION ON TIME SCHEDULE APPROVED BY VA.

EMERGENCY LIGHTS ARE CONNECTED TO UL924 LISTED EMERGENCY RELAYS WITHIN LIGHTING CONTROL RELAY PANEL. LOSS OF NORMAL POWER TO RELAY PANEL CAUSE EMERGENCY RELAYS TO BE BYPASSED AND EMERGENCY LIGHTS TURN 'ON' REGARDLESS OF CURRENT STATE OF LIGHT FIXTURE.

SPECIFIC ROOM EMERGENCY LIGHTING

ROOMS SHOWN ON THE DRAWINGS PROVIDED WITH EMERGENCY LIGHTS AND LOCAL SWITCHES SHALL BE MANUALLY CONTROLLED VIA LOCAL SWITCH(ES) IN ROOM. AUTOMATIC SHUT-OFF OF LIGHTS SHALL BE ACCOMPLISHED VIA EITHER ROOM OCCUPANCY SENSOR OR LIGHTING CONTROL RELAY PANEL.

FIXTURES WITH AUTOMATIC SHUTOFF ACCOMPLISHED VIA LIGHTING CONTROL RELAY PANEL SHALL OCCUR ON A TIME SCHEDULE APPROVED BY THE VA; DEFAULT TIME SCHEDULE SHALL BE LIGHTS ARE 'ON' FROM 6AM TO 8PM. LIGHTING WILL TOGGLE ON/OFF FIVE MINUTES BEFORE AUTOMATIC SHUTOFF TO MAKE ANYONE IN OCCUPIED SPACE AWARE LIGHTING IS ABOUT TO BE TURNED OFF. ACTIVATION OF LOW VOLTAGE SWITCH DURING THIS FIVE MINUTE SPAN WILL DELAY AUTOMATIC SHUTOFF FOR A MINIMUM OF THIRTY MINUTES

EMERGENCY LIGHTS ARE CONNECTED TO UL924 LISTED EMERGENCY RELAYS WITHIN LIGHTING CONTROL PANEL. LOSS OF NORMAL POWER TO RELAY PANEL CAUSE EMERGENCY RELAYS TO BE BYPASSED AND EMERGENCY LIGHTS TURN 'ON' REGARDLESS OF CURRENT STATE OF LIGHT FIXTURE. DURING TIMES WHICH RELAYS ARE BYPASSED, FIXTURES WILL REMAIN 'ON' AT ALL TIMES. ONCE NORMAL POWER IS RESTORED TO LIGHTING CONTROL RELAY PANEL, LIGHTING CONTROL SHALL FUNCTION AS DESCRIBED ABOVE.

SPECIFIC ROOM LIGHTING

LIGHTING FIXTURES IN SPECIFIC ROOMS SHALL BE MANUALLY CONTROLLED VIA LOCAL ROOM SWITCH(ES) AS SHOWN ON THE DRAWINGS. AUTOMATIC SHUTOFF OF LIGHTING FIXTURES SHALL BE ACCOMPLISHED BY OCCUPANCY SENSOR.

IN ROOMS WHERE TWO BUTTON 'ab' SWITCHING IS SHOWN, DEPRESSION OF ONE OF THE BUTTONS SHALL BRING LIGHTING TO 50% LIGHT OUTPUT, DEPRESSION OF THE SECOND BUTTON SHALL BRINGS LIGHTS TO 100% LIGHT OUTPUT.

IN ROOMS WHERE DAYLIGHTING SENSORS ARE SHOWN, SENSOR SHALL MONITOR AMOUNT OF DAYLIGHT PRESENT IN ROOM AND DIM THE LIGHTING FIXTURES CLOSEST TO THE WINDOWS APPROPRIATELY.

COMMONS AREA LIGHTING

FOR NORMAL POWER LIGHT FIXTURES IN THE SPACE, FIXTURES SHALL MANUALLY BE CONTROLLED VIA LOCAL SWITCHES SHOWN ON THE DRAWINGS. AUTOMATIC SHUTOFF SHALL BE ACCOMPLISHED VIA LIGHTING CONTROL RELAY PANEL. LIGHTING WILL TOGGLE ON/OFF FIVE MINUTES BEFORE AUTOMATIC SHUTOFF TO MAKE ANYONE IN OCCUPIED SPACE AWARE LIGHTING IS ABOUT TO BE TURNED OFF. ACTIVATION OF LOW VOLTAGE SWITCH DURING THIS FIVE MINUTE SPAN WILL DELAY AUTOMATIC SHUTOFF FOR A MINIMUM OF THIRTY MINUTES. AUTOMATIC SHUTOFF SHALL OCCUR ON A TIME SCHEDULE APPROVED BY THE VA; DEFAULT TIME SCHEDULE SHALL BE LIGHTS ARE 'ON' FROM 6AM TO 8PM. DAYLIGHTING OF THE NORMAL POWER FIXTURES SHALL BE ACCOMPLISHED VIA SIGNAL FROM THE AUTOMATED SHADING SYSTEM. THE SHADING SYSTEM WILL COMMUNICATE WITH RELAY IN COMMONS AREAS ON HOW MUCH THE FIXTURES SHALL BE DIMMED.

EMERGENCY POWER FIXTURES WITHIN THE SPACE SHALL REMAIN 'ON' AT ALL TIMES THE BUILDING IS OCCUPIED. IF VA DESIRES LIGHTS TO BE TURNED OFF DURING TIMES WHEN BUILDING IS UNOCCUPIED, AUTOMATIC SHUTOFF SHALL BE ACCOMPLISHED VIA LIGHTING CONTROL PANEL. EMERGENCY LIGHTS ARE CONNECTED TO UL924 LISTED EMERGENCY RELAYS WITHIN LIGHTING CONTROL RELAY PANEL. LOSS OF NORMAL POWER TO RELAY PANEL CAUSES RELAYS TO BE BYPASSED AND EMERGENCY LIGHTS TURN 'ON' REGARDLESS OF CURRENT STATE OF LIGHT FIXTURE.

EXTERIOR LIGHTING

NORMAL POWER LIGHTING FIXTURES SHALL BE CONTROLLED VIA LIGHTING CONTROL RELAY PANEL. CONTROL SHALL BE ACCOMPLISHED VIA PHOTOCELL AND/OR TIME SCHEDULE. CONTROL VIA TIME SCHEDULE SHALL OCCUR ON A TIME SCHEDULE APPROVED BY THE VA; DEFAULT TIME SCHEDULE SHALL BE LIGHTS ARE 'ON' FROM 7 PM TO 7 AM.

EMERGENCY FIXTURES SHALL BE CONTROLLED IN THE SAME FASHION AS THE NORMAL POWER FIXTURES. EMERGENCY LIGHTS ARE CONNECTED TO UL924 LISTED EMERGENCY RELAYS WITHIN LIGHTING CONTROL RELAY PANEL. LOSS OF NORMAL POWER TO RELAY PANEL CAUSE EMERGENCY RELAYS TO BE BYPASSED AND EMERGENCY LIGHTS TURN 'ON' REGARDLESS OF CURRENT STATE OF LIGHT FIXTURE. DURING TIMES WHICH RELAYS ARE BYPASSED, FIXTURES WILL REMAIN 'ON' AT ALL TIMES. ONCE NORMAL POWER IS RESTORED TO LIGHTING CONTROL RELAY PANEL, LIGHTING CONTROL SHALL FUNCTION AS DESCRIBED ABOVE.

ABBREVIATIONS

1PH	SINGLE - PHASE
1P	SINGLE POLE
2/C	TWO - CONDUCTOR
3/C	THREE - CONDUCTOR
3PH	THREE - PHASE
4/C	FOUR - CONDUCTOR
4W	FOUR - WIRE
A/C UNIT	AIR CONDITIONING UNIT
A/E	ARCHITECT/ENGINEER
AB	ABOVE
AC	ALTERNATING CURRENT OR ARMORED CABLE
ACC	ACCESSIBLE
ADDL	ADDITIONAL
ADJ	ADJACENT, ADJOINING
ADO	AUTOMATIC DOOR OPENER
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
AMB or A	AMBIENT
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AV	AUDIO VISUAL
BAT	BATTERY
BC	BARE COPPER
BFC	BELOW FINISHED CEILING
BFF	BELOW FINISH FLOOR
BLDG	BUILDING
BPIP	BOILER PLANT INSTRUMENTATION PANEL
BYP	BY-PASS
C	CONDUIT
CAB	CABINET
CALC	CALCULATE
CAP	CAPACITY
CAT	CATALOG
CATV	COMMUNITY ANTENNA TELEVISION
CC	CRITICAL CARE
CCTV	CLOSED CIRCUIT TELEVISION
CD	CONSTRUCTION DOCUMENTS
CF	CONTRACTOR FURNISHED
CF/CI	CONTRACTOR - FURNISHED/CONTRACTOR INSTALLED
CF/OI	CONTRACTOR - FURNISHED/OWNER INSTALLED
CFE	CONTRACTOR FURNISHED EQUIPMENT
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COAX	COAX CABLE
COMM	COMMUNICATION
COMPT	COMPARTMENT
CONC	CONCRETE
CONT	CONTINUE
CONTR	CONTRACTOR
COORD	COORDINATE
CTV	CABLE TELEVISION
CU	COPPER
CU FT	CUBIC FEET
CUR	CURRENT
DB	DECIBEL OR DIRECT BURIAL
DC	DIRECT CURRENT
DEG C	DEGREES CELSIUS
DEG F	DEGREES FAHRENHEIT
DEMO	DEMOLITION
DIAG	DIAGRAM
DISTR	DISTRIBUTION
DN	DOWN
DRSW	DOOR SWITCH
DWG	DRAWING
EC	EMPTY CONDUIT
EE	ESSENTIAL EQUIPMENT
EG	EQUIPMENT GROUND
EL	ELEVATION
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EPO	EMERGENCY POWER OFF
ETR	EXISTING TO REMAIN
EX or EXIST	EXISTING
FLEX	FLEXIBLE METALLIC CONDUIT
FP	FIRE PROTECTION
FT	FEET or FOOT
FU SW	FUSED SWITCH
G	GROUND FAULT TRIP
GND	GROUND
GEN	GENERATOR
GTB	GROUND TERMINAL BOX
HOA	HAND-OFF-AUTOMATIC
HPC	HIGH PAIR COUNT
HT	HEIGHT
HZ	HERTZ
I	INSTANTANEOUS TRIP
IMC	INTERMEDIATE METAL CONDUIT
IR	INFRARED
J-BOX	JUNCTION BOX
L	LONG TIME TRIP
LAN	LOCAL AREA NETWORK
LF	LINEAR FEET (FOOT)
LTNG	LIGHTING
LS	LIFE SAFETY
LV	LOW VOLTAGE

MATV	MASTER ANTENA TELEVISION SYSTEM
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
MM	MULTI-MODE
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEUT or N	NEUTRAL
NIC	NOT IN CONTRACT
NS	NO SCALE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
P	POLE
PA	PUBLIC ADDRESS
PB	PANELBOARD, PULL BOX OR PUSHBUTTON
PBPU	PREFABRICATION BEDSIDE PATIENT UNIT
PED	PEDESTAL
PEND	PENDANT
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE (PLASTIC)
PWR	POWER
RCP	REFLECTED CEILING PLAN
REC	RECESSED
RECPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RLA	RUNNING LOAD AMPS
RM	ROOM
REQD	REQUIRED
SF	SQUARE FOOT (FEET)
SHT	SHEET
SI	INTERNATIONAL SYSTEM OF UNITS
S	SHORT TIME TRIP
SPEC	SPECIFICATION
SURF	SURFACE
SW	SWITCH
TEL	TELEPHONE
TP	TWISTED PAIR
TPS	TWISTED PAIR SHIELDED
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
UFD	UNDERFLOOR DUCT
UGND	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTIL	UTILITY
V	VOLTAGE
WP	WEATHERPROOF
%Z	PERCENT IMPEDANCE

GENERAL NOTES

1. ALL FINAL LOCATIONS AND ARRANGEMENTS OF LIGHTING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLAN.
2. LIGHTING FIXTURES WITH MORE THAN TWO LAMPS SHALL HAVE TWO OUTER LAMPS CONTROLLED WITH ONE SWITCH AND INNER LAMP(S) CONTROLLED BY A SECOND SWITCH.
3. BRANCH CIRCUIT HOMERUN CONDUITS SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR. SHARING OF GROUND AND NEUTRAL CONDUCTORS SHALL NOT BE PERMITTED.
4. MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.
5. IT IS CALLED TO THE CONTRACTORS ATTENTION THAT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO INSTALL ALL NEW WIRING CONCEALED (FISHED THRU OPENINGS IN EXISTING BUILDING CONSTRUCTION) IN FINISH AREAS OF THE BUILDING CONSTRUCTION. THE USE OF EXPOSED SURFACE RACEWAYS WILL NOT BE PERMITTED UNLESS APPROVED BY THE RESIDENT ENGINEER OR SPECIFICALLY CALLED OUT ON THE DRAWINGS. WHERE BUILDING CONSTRUCTION MUST BE CUT TO CONCEAL NEW CONDUIT AND WIRING THE CONTRACTOR SHALL SAW CUT A CHANNEL IN BUILDING CONSTRUCTION, INSTALL NEW CONDUIT, PATCH AND FINISH DISTURBED AREAS TO MATCH ADJACENT SURFACES AS APPROVED BY THE ARCHITECT.
6. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST NATIONAL ELECTRICAL CODE, IN PARTICULAR ARTICLE #517, AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
7. ALL WIRE, CONDUIT, CONNECTORS, OUTLETS, BOXES, ETC. NECESSARY TO ACHIEVE A COMPLETE ELECTRICAL INSTALLATION SHALL BE PROVIDED. WHERE AN ELECTRICAL DEVICE IS REQUIRED BY CODE BUT NOT SHOWN SHALL BE PROVIDED AS THOUGH FULLY SHOWN AND SPECIFIED.
8. ALL CONDUIT, JUNCTION BOXES, ETC. ABOVE CEILING SHALL BE SUPPORTED FROM THE BUILDING DECK. LIGHTING FIXTURES WHICH ARE INSTALLED IN SUSPENDED CEILING SYSTEM MUST BE MECHANICALLY FASTENED TO T-BAR SYSTEM AS PER SPECIFICATIONS.
9. NEW OPENINGS, CHASES IN WALLS, FLOORS AND PARTITIONS FOR CONDUIT, HANGERS, SUPPORTS AND OTHER EQUIPMENT IN THE EXISTING BUILDING(S) SHALL BE PROVIDED AS REQUIRED FOR THE NEW AND REMODELED INSTALLATION. NEW OPENINGS IN EXISTING CONSTRUCTION AND THE REPAIR OF SUCH OPENINGS FOR THE ENTRANCE OF NEW EQUIPMENT INTO THE BUILDING OR FOR THE REMOVAL OF EXISTING EQUIPMENT IN THE BUILDING SHALL BE PROVIDED BY THE CONTRACTOR.
10. NO CUTTING OF BUILDING CONSTRUCTION SHALL BE DONE WHICH IN ANYWAY AFFECT THE BUILDING STRUCTURALLY OR ARCHITECTURALLY WITHOUT FIRST SECURING THE RESIDENT ENGINEER'S CONSENT AND APPROVAL.
11. NO CONDUITS SHALL BE RUN THROUGH OR SUPPORTED FROM DUCTWORK.
12. AFTER CONSTRUCTION IS COMPLETED, THE CONTRACTOR SHALL LABEL REUSED AND EXISTING UNUSED CIRCUIT BREAKERS IN ALL ELECTRICAL PANELS INVOLVED. SPARES SHALL BE MARKED SPARES.
13. IT IS CALLED TO THE CONTRACTOR'S ATTENTION THAT THE ENTIRE INSTALLATION MUST BE GROUNDED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE. ALL DEVICES, EQUIPMENT BOXES, ETC. MUST BE CONNECTED TO A SOLID, INSULATED GREEN, COPPER GROUNDING CONDUCTOR. THIS GROUNDING CONDUCTOR MUST BE CONTINUOUS WITHOUT SPLICES FROM POINT OF ORIGIN IN PANELBOARD TO ALL BOXES AND EQUIPMENT ON EACH BRANCH CIRCUIT. VERIFY GROUNDING VALUES AND SUBMIT A TYPEWRITTEN REPORT TO THE RESIDENT ENGINEER INDICATING TESTING RESULTS OF EACH CIRCUIT AT THE COMPLETION OF THE PROJECT.
14. FURNISH, INSTALL, AND PERFORM ANY AND ALL NECESSARY WORK AND EQUIPMENT ON A TEMPORARY BASIS TO ASSURE UNINTERRUPTED SERVICE TO THE ELECTRICAL, FIRE ALARM, TELEPHONE AND SIGNAL/DATA SYSTEMS UNTIL NEW EQUIPMENT CAN BE INSTALLED ON A PERMANENT BASIS FOR THESE SYSTEMS. ALL OUTAGES MUST BE SCHEDULED WITH THE RESIDENT ENGINEER PRIOR TO ANY INTERRUPTIONS OF THESE SYSTEMS.
15. FOR SINGLE PHASE CIRCUITS, UNLESS NOTED OTHERWISE, NEW WIRING INDICATED SHALL BE 2 #12 AND 1 #12 GROUND IN 3/4" CONDUIT. FOR THREE PHASE CIRCUITS, UNLESS NOTED OTHERWISE, NEW WIRING INDICATED SHALL BE 3 #12 AND 1 #12 GROUND IN 3/4" CONDUIT. FOR CIRCUITS THAT REQUIRE LONG TRAVEL DISTANCE, REFER TO VOLTAGE DROP NOTE BELOW.
16. THE CONTRACTOR SHALL FIRESTOP ALL EXISTING CONCEALED AND ACCESSIBLE CONDUITS WITHIN THE LIMITS OF THE CONTRACT WORK AREA. THE CONTRACTOR SHALL FIRESTOP ALL NEW AND EXISTING CONDUITS AS PART OF THE REMODELING AND EXISTING SYSTEMS TO REMAIN. (REFER TO SPECIFICATIONS)
17. THE CONTRACTOR SHALL PROVIDE AND INSTALL APPROVED FIRE STOPPING AT ALL NEW AND EXISTING FLOOR SLAB/CEILING AND WALL PENETRATIONS WITHIN THE LIMITS OF CONTRACT WORK AREA TO MAINTAIN THE FIRE RATED CONSTRUCTION.
18. WITH REGARDS TO TELECOMMUINCATIONS VOICE JACKS; EACH SINGULAR VOICE JACK SHALL UTILIZE TWO OF THE FOUR PAIRS CONTAINED WITHIN A SINGLE CAT 6 CABLE. ONE CAT 6 CABLE SHALL SUPPORT TWO VOICE JACKS.

VOLTAGE DROP NOTE:

THE FOLLOWING LIST APPLIES TO ALL NEW BRANCH WIRING PROVIDED UNDER THIS CONTRACT. LISTS INDICATED THE NECESSARY GAUGE OF CONDUCTORS NECESSARY FOR BRANCH CIRCUITS ONE WAY FROM PANEL TO LAST OUTLET OR LIGHTING FIXTURE ON THE CIRCUIT.

120/208V CIRCUITS	WIRE SIZE	277V CIRCUITS
• 0 - 100 FEET	No. 12 AWG	0 - 150 FEET
• 101 - 250 FEET	No. 10 AWG	151 - 350 FEET
• 250 - 400 FEET	No. 8 AWG	351 - 500 FEET

INPUT DEVICE ↓ / OUTPUT →	1. Sound general building alarm	2. Notify necessary staff for response	3. Notify Fire Department.	4. Initiate supervisory signal to a 24-hour manned point for immediate response.	5. Close associate smoke barrier doors on the floor.	6. Close dampers on fan proximate to detector.	7.Shut down air handler served by the detector.	8. Recall elevator.	9. Initiate elevator shut down and disconnect elevator power.	10. Open **locked egress doors on floor of fire origin.
Duct Smoke Detector*				X		X	Xa			
Area Smoke Detector*	X	X	X							X
Door Release Smoke Detector*	X	X	X		X	X				X
Elevator Smoke Detector*	X	X	X					X		
Manual Pull Station	X	X	X		X					X
Elevator Machine Room Heat Detector	X	X	X						X	
Sprinkler Waterflow / Pressure Switch	X	X	X		X					X
Water Control Valve Tamper				X						

*While NFPA 101 does not require some detectors to notify building occupants, VA requires all smoke detectors, other than duct smoke detectors, to notify building occupants. Only install when required by the Life Safety Code or its references.

**Those doors that are required to be tied to the fire alarm system such as delayed egress and access controlled doors.

a-Do not provide duct detectors in dedicated (100%) exhaust fans, they should continue to run.

1 FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX
NOT TO SCALE

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer	Structural Engineer	MEP Engineer	Environmental Consultant	Cost Estimator
Dewberry	WZG	H.F. LENZ COMPANY	SSM	INTERNATIONAL CONSULTANTS, INC.
600 Parsippany Road, Suite 301 Parsippany, NJ 07054-3715 Tel (973) 576-9683 Fax (973) 739-9710	180 W. Ridge Pike Limerick, PA 19468 Tel (214) 329-5559	1407 Scalp Avenue Johnstown, PA 15904 Tel (814) 269-9300 Fax (814) 269-9301	1047 North Park Road, P.O. Box 6307 Reading, PA 19610 Tel (610) 621-2000	221 Chestnut Street, Suite 200 Philadelphia, PA 19106 Tel (215) 923-8888

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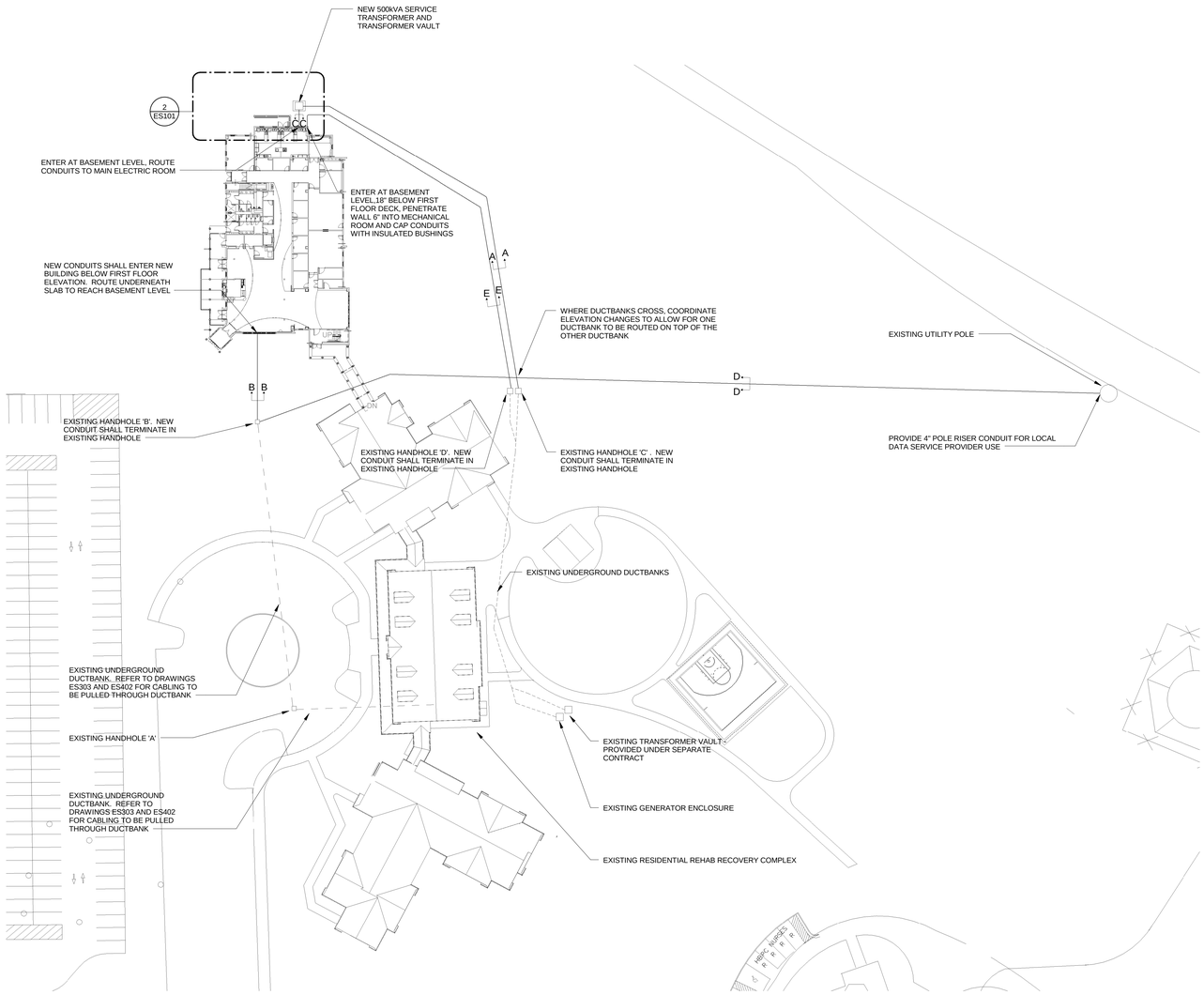
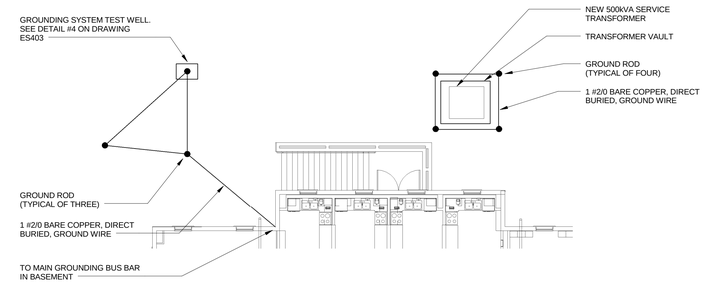
Project Number: 3468
Scale: AS INDICATED
Drawing Title: ELECTRICAL ABBREVIATIONS AND NOTES
Approved: Project Director
Project Title: Behavioral Health Complex
Location: 1700 South Lincoln Ave. Lebanon, PA 17042
Date: 07/27/2012
Checked: TME
Drawn: RJD
VA Project Number: 595-109
Building Number: 34
Drawing Number: ES002
Dwg. 103 of 123

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 ELECTRICAL SITE PLAN
SCALE: 1" = 40'-0"



2 ENLARGED TRANSFORMER PAD PLAN
SCALE: 1" = 10'-0"

GENERAL NOTES THIS DRAWING:

1. REFER TO DRAWING ES402 FOR DUCTBANK DETAILS.

CALL BEFORE YOU DIG!

PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS BEFORE NOTICE FOR CONSTRUCTION PHASE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, OR BLAST

PA ONE CALL

1-800-242-1776

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer	Structural Engineer	MEP Engineer	Environmental Consultant	Cost Estimator
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Project Number	Scale
3468	As indicated

Drawing Title: ELECTRICAL SITE PLAN

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	TME	RJD

VA Project Number: 595-109

Building Number: 34

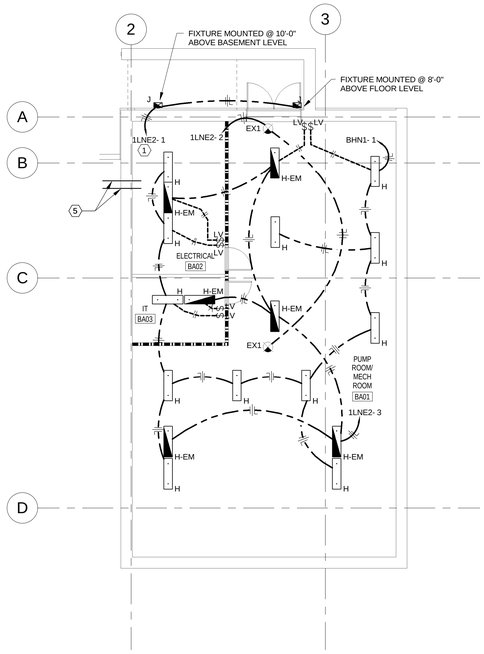
Drawing Number: ES101

Dwg. 104 of 123

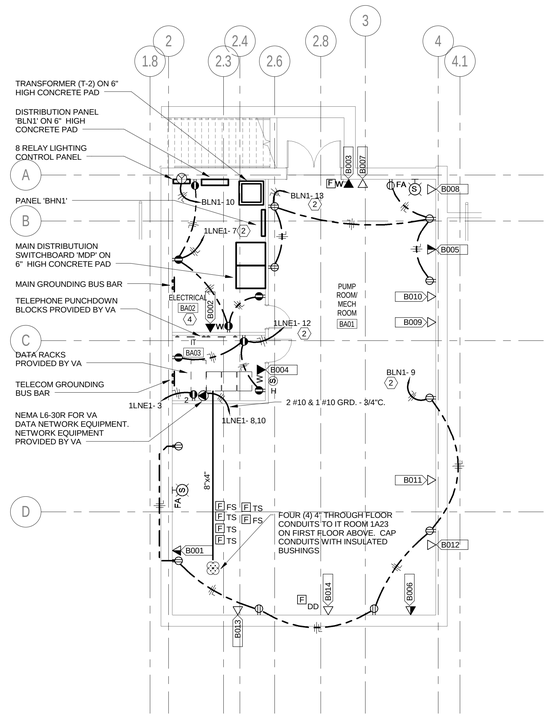
Office of Facilities Management

Department of Veterans Affairs

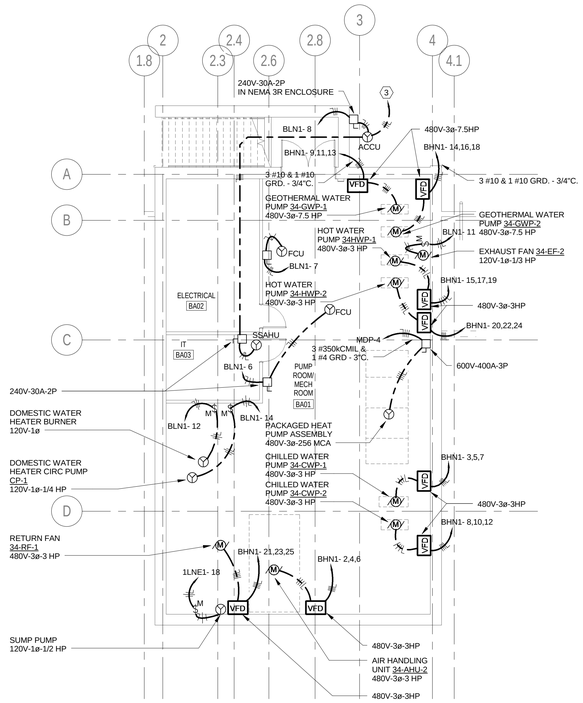
VA FORM 08-6231, OCT 1978



1 ELECTRICAL LIGHTING PLAN - BASEMENT
SCALE: 1/8" = 1'-0"



2 ELECTRICAL POWER AND SIGNAL PLAN - BASEMENT
SCALE: 1/8" = 1'-0"



3 ELECTRICAL MECHANICAL EQUIPMENT POWER PLAN - BASEMENT
SCALE: 1/8" = 1'-0"

- ELECTRICAL KEYNOTES

1	ROUTE BRANCH CIRCUIT THROUGH FIRST FLOOR LIGHTING CONTROL RELAY PANEL, TERMINATING ON EMERGENCY RELAY, BEFORE TERMINATING AT INDICATED PANEL.
2	PROVIDE GFI TYPE BREAKER FOR BRANCH CIRCUIT INDICATED.
3	UP TO SPLIT SYSTEM AIR HANDLING UNIT IN IT ROOM 1A23 ON FIRST FLOOR, SEE DRAWING ES204 FOR LOCATION OF UNIT.
4	PROVIDE 6" HIGH CONCRETE HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT WITHIN ROOM.
5	TWO (2) 1" DIRECT BURIAL CONDUITS, WITH PULLCORDS, FOR SITE LIGHTING. EXTEND CONDUITS 5'-0" PAST BUILDING FOUNDATION, PROVIDE HANDHOLE AND TERMINATE CONDUITS AT HANDHOLE. DIRECT CONDUITS SHALL BE SCHEDULE 40 PVC, CAP CONDUITS WITH INSULATED BUSHING IN ELECTRICAL ROOM.

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

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Environmental Consultant: SSM — 1047 North Park Road, P.O. Box 6307, Reading, PA 19610, Tel (610) 621-2000

Cost Estimator: International Consultants, Inc. — 221 Chestnut Street, Suite 200, Philadelphia, PA 19106, Tel (215) 923-8888

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Project Number	Scale
3468	1/8" = 1'-0"

Drawing Title: ELECTRICAL LIGHTING, POWER, AND SIGNAL FLOOR PLANS - BASEMENT

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	TME	RJD

VA Project Number: 595-109

Building Number: 34

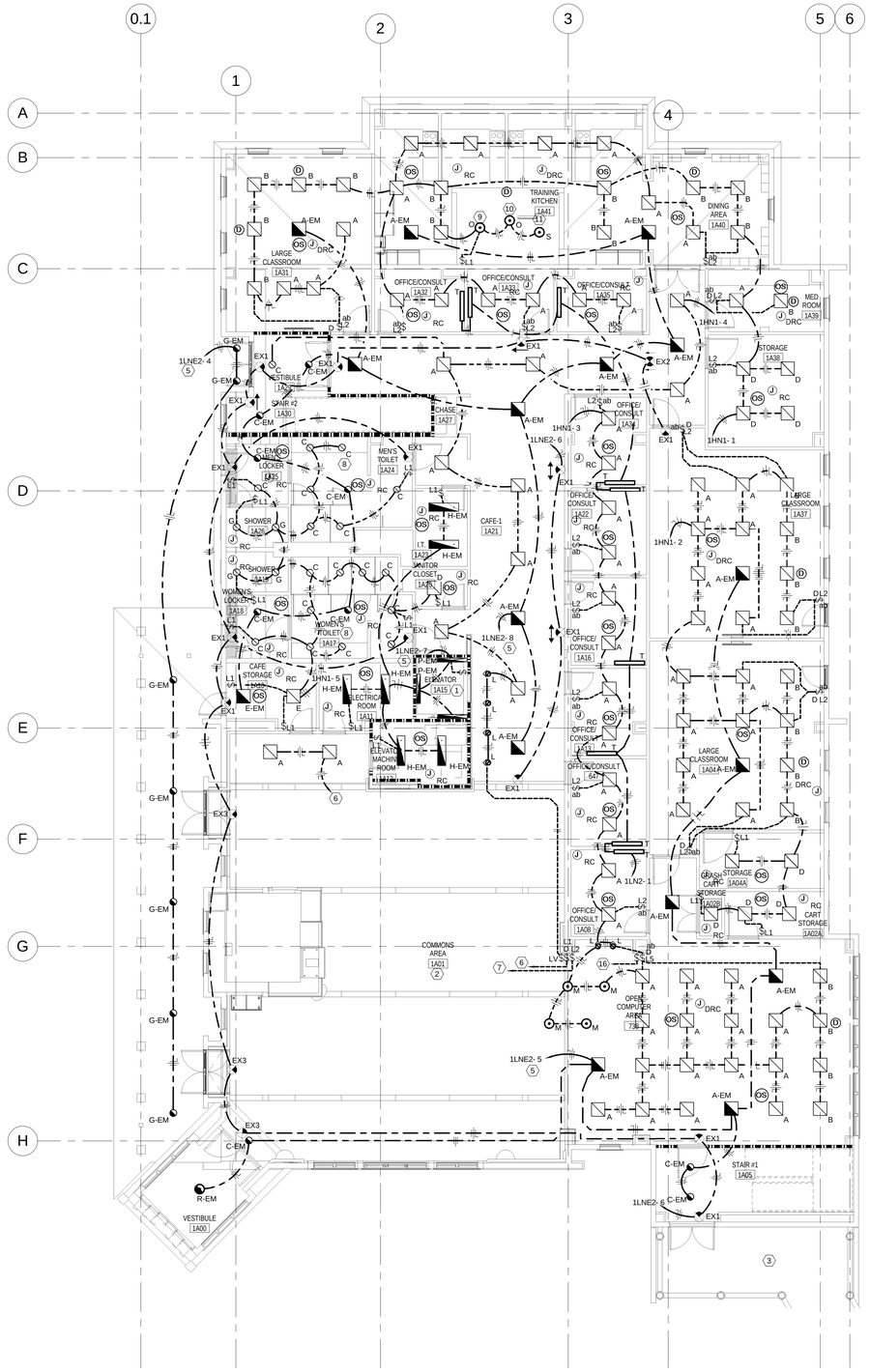
Drawing Number: ES201

Dwg. 105 of 123

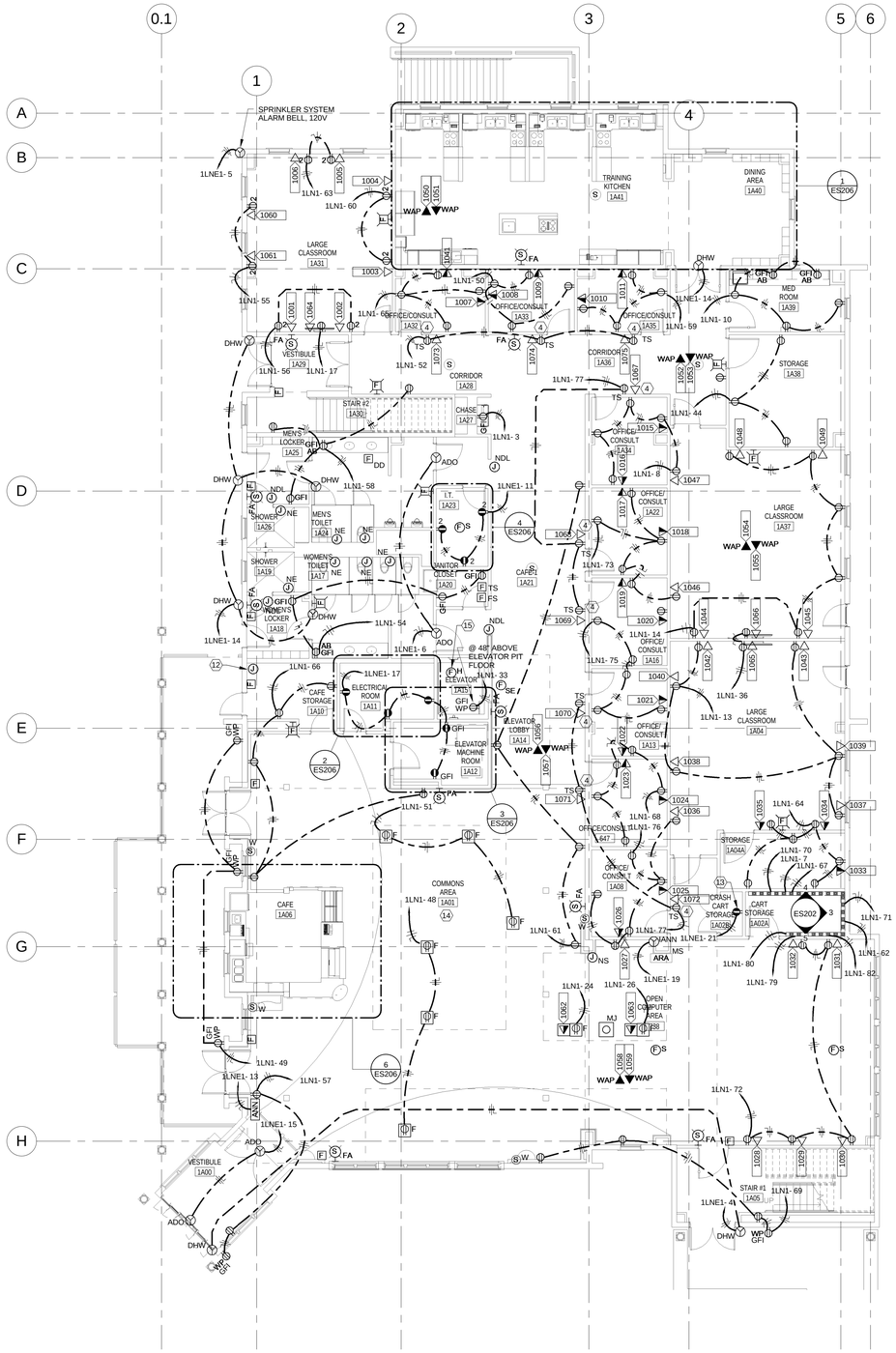
Office of Facilities Management

Department of Veterans Affairs

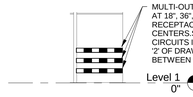
VA FORM 08-6231, OCT 1978



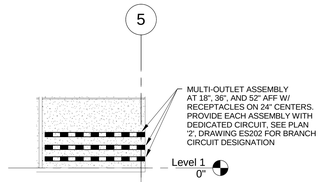
1 ELECTRICAL LIGHTING PLAN - FIRST FLOOR
SCALE: 1/8" = 1'-0"



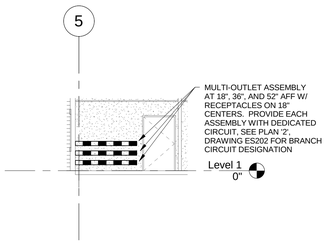
2 ELECTRICAL POWER AND SIGNAL PLAN - FIRST FLOOR
SCALE: 1/8" = 1'-0"



3 CART STORAGE - PLAN EAST WALL ELEVATION
NOT TO SCALE



4 CART STORAGE - PLAN NORTH WALL ELEVATION
NOT TO SCALE



5 CART STORAGE - PLAN SOUTH WALL ELEVATION
NOT TO SCALE

⬡ - ELECTRICAL KEYNOTES

1	ELEVATOR PIT LIGHT FIXTURES AND LIGHT SWITCH SHALL BE PROVIDED AT 48" ABOVE PIT FLOOR.
2	LIGHTING FOR THIS AREA SHOWN ON SECOND FLOOR LIGHTING PLAN.
3	SEE DRAWING ES206 FOR LIGHTING IN THIS AREA.
4	FOR BIDDING PURPOSES, PROVIDE RECEPTACLE AND DATA OUTLET FOR TOUCH SCREENS AT 5'-0" AFF. CONFIRM FINAL MOUNTING HEIGHT WITH ARCHITECT.
5	ROUTE BRANCH CIRCUIT THROUGH FIRST FLOOR LIGHTING CONTROL RELAY PANEL, TERMINATING ON EMERGENCY RELAY, BEFORE TERMINATING AT INDICATED PANEL.
6	UP TO 'F' FIXTURE, SEE DRAWING ES203 FOR LOCATIONS OF FIXTURE.
7	UP TO 'K' AND 'N' FIXTURE, SEE DRAWING ES203 FOR LOCATIONS OF FIXTURE. EACH BUTTON ON SWITCH SHALL CONTROL ONE TYPE OF FIXTURE.
8	PROVIDE LIGHT FIXTURES WITHIN SPACE WITH VANDAL PROOF CLEAR GLASS LENS.
9	MOUNT FIXTURE SO THAT BOTTOM OF FIXTURES IS AT 7'-8". CONFIRM FINAL MOUNTING HEIGHTS WITH ARCHITECT.
10	MOUNT FIXTURE SO THAT BOTTOM OF FIXTURES IS AT 10'-2". CONFIRM FINAL MOUNTING HEIGHTS WITH ARCHITECT.
11	MOUNT FIXTURE SO THAT BOTTOM OF FIXTURES IS AT 8'-8". CONFIRM FINAL MOUNTING HEIGHTS WITH ARCHITECT.
12	PROVIDE 4" x 4" OUTLET BOX, WITH BLANK COVER PLATE, FLUSH WITH CEILING FOR FUTURE SECURITY CAMERA. FROM OUTLET BOX, PROVIDE 3/4"C WITH PULLCORD BACK TO IT ROOM 1A23. EXTEND CONDUIT 6" INTO ROOM. CAP WITH INSULATED BUSHING.
13	RECEPTACLE FOR CRASH CART, CONFIRM FINAL LOCATION OF CRASH CART WITH VA BEFORE PERFORMING ROUGH-INS.
14	WALL MOUNTED SPEAKERS WITHIN COMMONS AREA SHALL BE MOUNTED 12'-0" AFF.
15	PROVIDE HEAT DETECTOR IN ELEVATOR PIT NEXT TO SPRINKLER HEAD.
16	UP TO CEILING FANS, SEE DRAWING ES203 FOR LOCATION OF CEILING FANS.

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer: Dewberry — 600 Parsippany Road, Suite 301, Parsippany, NJ 07054-3715, Tel (973) 576-9693, Fax (973) 739-9710

Structural Engineer: WZG — 180 W. Ridge Pike, Limerick, PA 19468, Tel (214) 329-5559

MEP Engineer: H.E. Lenz Company — 1407 Scalp Avenue, Johnstown, PA 15904, Tel (814) 269-9300, Fax (814) 269-9301

Environmental Consultant: SSM — 1047 North Park Road, P.O. Box 6307, Reading, PA 19610, Tel (610) 621-2000

Cost Estimator: International Consultants, Inc. — 221 Chestnut Street, Suite 200, Philadelphia, PA 19106, Tel (215) 923-8888

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Project Number	Scale
3468	1/8" = 1'-0"

Drawing Title: ELECTRICAL LIGHTING, POWER, AND SIGNAL FLOOR PLANS - FIRST FLOOR

Approved: Project Director

Project Title: Behavioral Health Complex

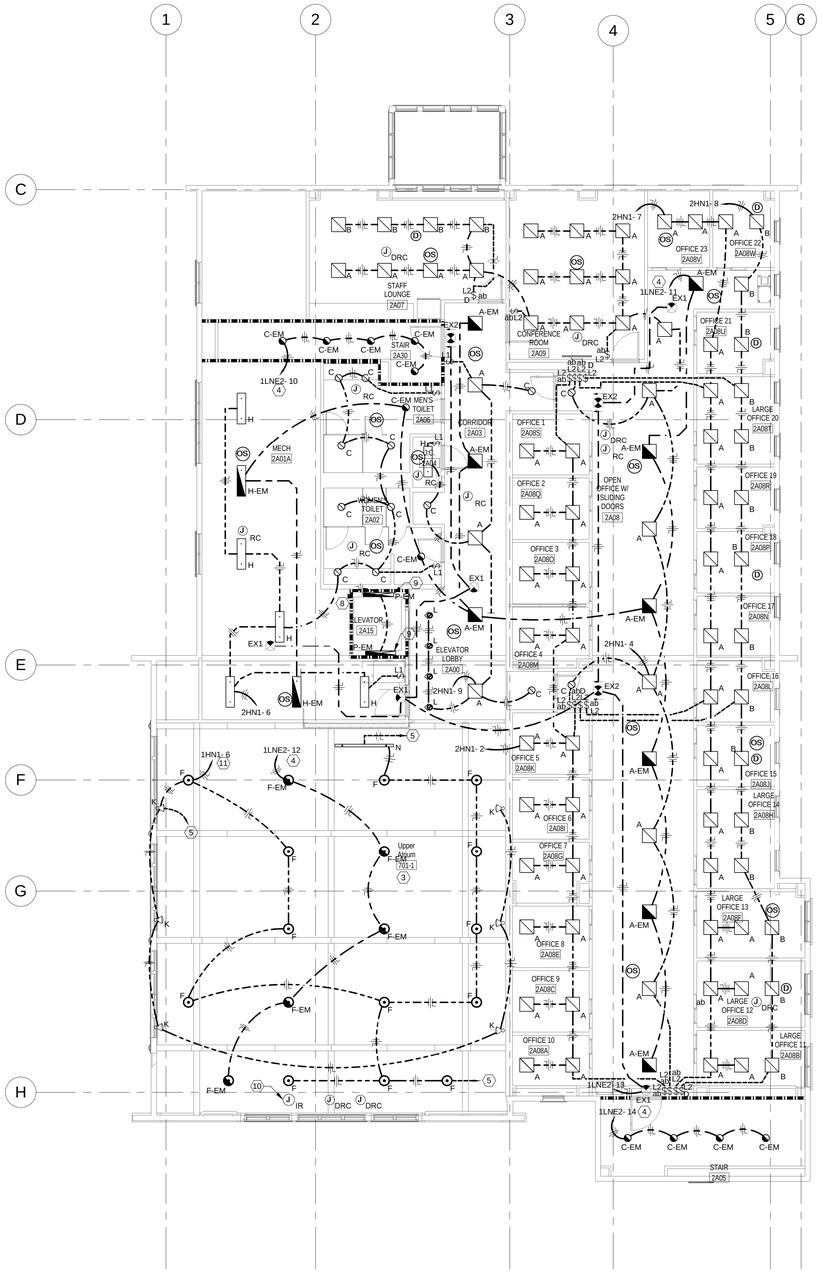
Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	TME	RJD

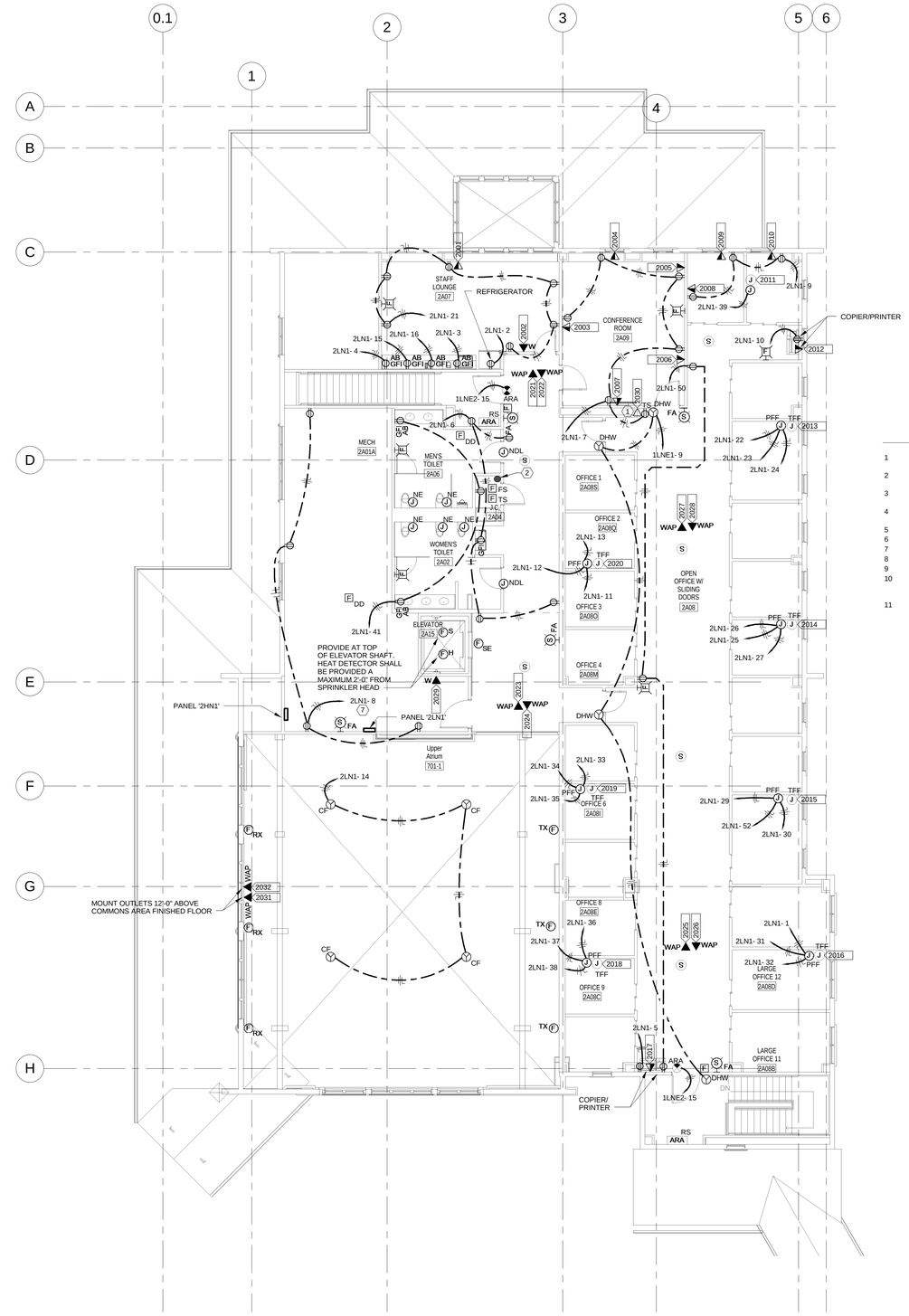
VA Project Number: 595-109
Building Number: 34
Drawing Number: ES202
Dwg. 106 of 123

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 ELECTRICAL LIGHTING PLAN - SECOND FLOOR
SCALE: 1/8" = 1'-0"



2 ELECTRICAL POWER AND SIGNAL PLAN - SECOND FLOOR
SCALE: 1/8" = 1'-0"

- ELECTRICAL KEYNOTES

1	FOR BIDDING PURPOSES, PROVIDE RECEPTACLE AND DATA OUTLET FOR TOUCH SCREENS AT 5'-0" AFF. CONFIRM FINAL MOUNTING HEIGHT WITH ARCHITECT.
2	FOUR (4) 4" THROUGH FLOOR CONDUITS FROM FIRST FLOOR IT ROOM. STUB CONDUITS UP THROUGH FLOOR 6" AFF, CAP CONDUITS WITH INSULATED BUSHINGS.
3	WITHIN COMMONS AREA, FOR MOUNTING HEIGHTS AND LOCATIONS OF PENDANT MOUNTED AND WALL MOUNTED FIXTURES REFER TO ARCHITECTURAL PLANS.
4	ROUTE BRANCH CIRCUIT THROUGH FIRST FLOOR LIGHTING CONTROL RELAY PANEL, TERMINATING ON EMERGENCY RELAY, BEFORE TERMINATING AT INDICATED PANEL.
5	DOWN TO SWITCH ON FIRST FLOOR, SEE DRAWING ES202 FOR LOCATION OF SWITCH.
6	NOT USED
7	PROVIDE GFI TYPE BREAKER FOR BRANCH CIRCUIT INDICATED.
8	DOWN TO ELEVATOR PIT FIXTURES ON FIRST FLOOR.
9	MOUNT FIXTURE AT TOP OF SHAFT.
10	ISOLATED RELAY SHALL ACCEPT SIGNAL FROM AUTOMATED SHADING SYSTEM TO ALLOW FOR SHADING SYSTEM TO CONTROL THE DIMMING OF THE 'F' FIXTURES WITHIN THE COMMONS AREA.
11	ROUTE BRANCH CIRCUIT THROUGH FIRST FLOOR LIGHTING CONTROL RELAY PANEL, TERMINATING ON RELAY, BEFORE TERMINATING AT INDICATED PANEL.

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100% CONSTRUCTION DOCUMENTS

Revisions	Date

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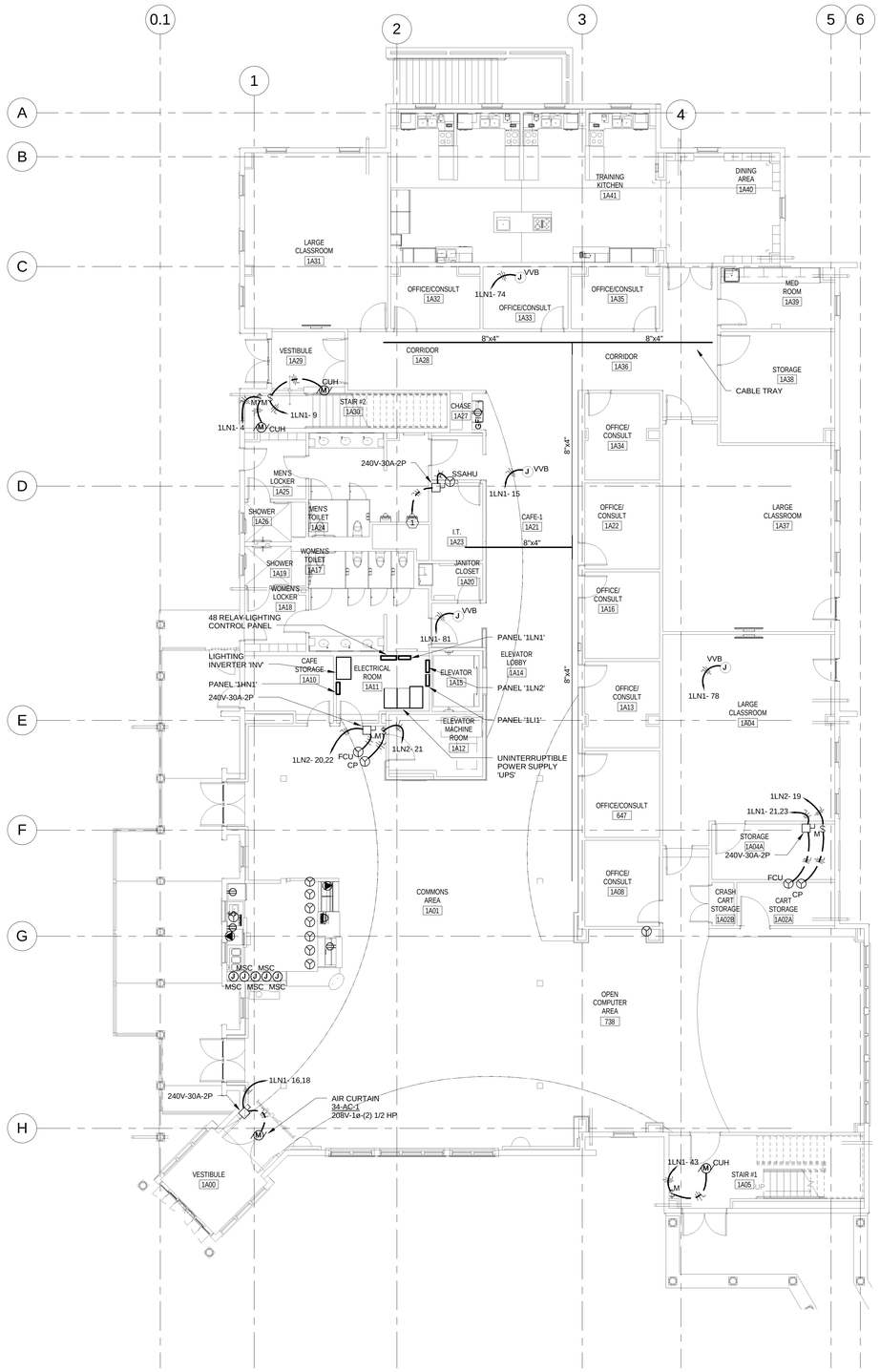
Project Number	3468
Scale	1/8" = 1'-0"
Drawing Title	ELECTRICAL LIGHTING, POWER, AND SIGNAL PLANS - SECOND FLOOR
Approved: Project Director	
Project Title	Behavioral Health Complex
Location	1700 South Lincoln Ave. Lebanon, PA 17042
Date	07/27/2012
Checked	TME
Drawn	RJD
VA Project Number	595-109
Building Number	34
Drawing Number	ES203
Dwg. 107 of 123	

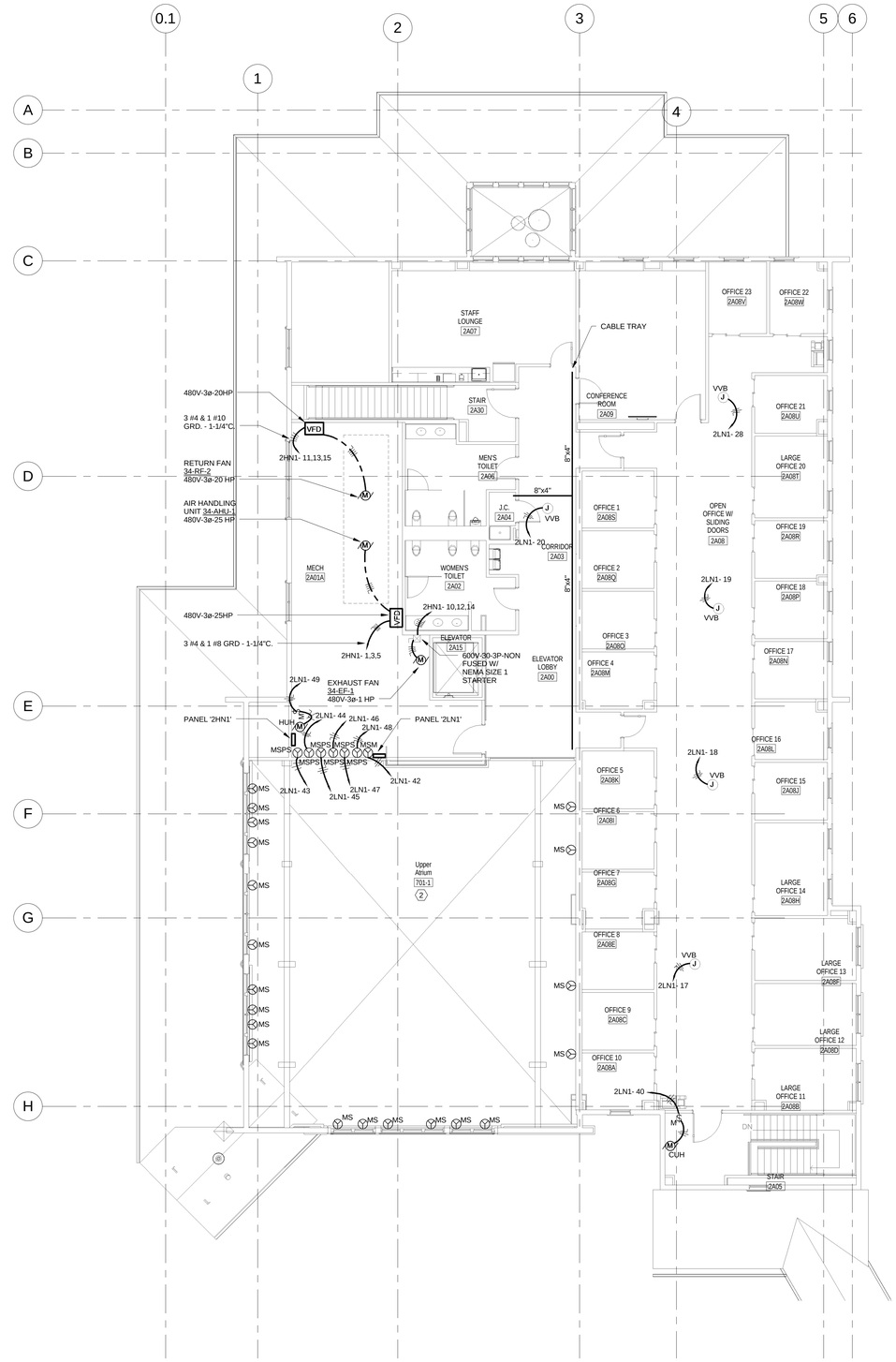
Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 ELECTRICAL POWER PLAN - EQUIPMENT CONNECTIONS - FIRST FLOOR
SCALE: 1/8" = 1'-0"



2 ELECTRICAL POWER PLAN - EQUIPMENT CONNECTIONS - SECOND FLOOR
SCALE: 1/8" = 1'-0"

GENERAL NOTES THIS DRAWING:

1. SEE DRAWING ES303 FOR CABLING REQUIRED BETWEEN MOTORIZED SHADE POWER SUPPLIES AND THE MOTORIZED SHADES.

- ELECTRICAL KEYNOTES

1 DOWN TO AIR COOLED CONDENSING UNIT AT EXTERIOR OF BUILDING ON BASEMENT LEVEL, SEE DRAWING ES201 FOR LOCATION OF UNIT.

2 CONFIRM FINAL LOCATIONS OF ALL MOTORIZED SHADES WITH ARCHITECT BEFORE PERFORMING ROUGH-INS.

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

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Project Number	Scale
3468	1/8" = 1'-0"

Drawing Title: ELECTRICAL POWER PLANS - EQUIPMENT CONNECTIONS - FIRST AND SECOND FLOORS

Approved: Project Director

Project Title: Behavioral Health Complex

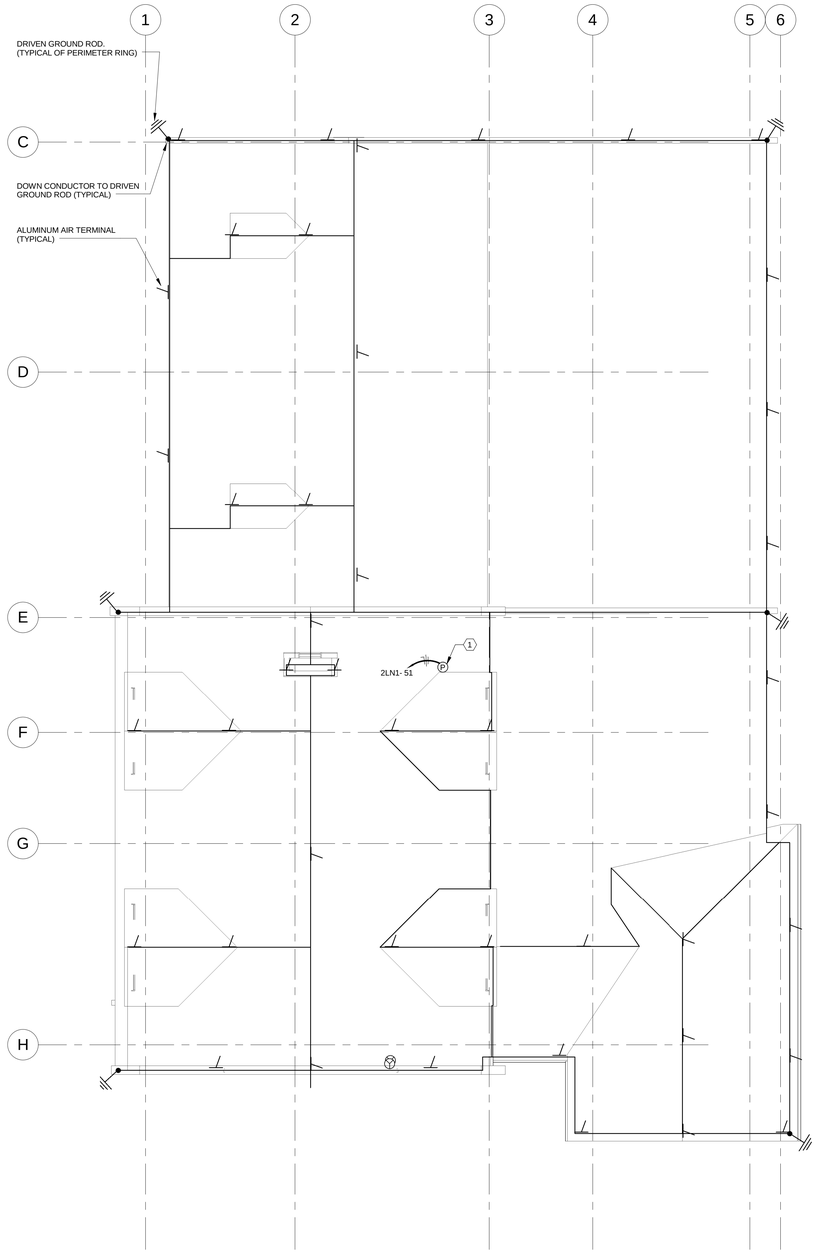
Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	TME	RJD

VA Project Number: 595-109
Building Number: 34
Drawing Number: ES204
Dwg. 108 of 123

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 ELECTRICAL ROOF PLAN - POWER AND LIGHTNING PROTECTION
SCALE: 1/8" = 1'-0"

- ELECTRICAL KEYNOTES

1 CONNECT PHOTO CELL TO BASEMENT AND FIRST FLOOR RELAY PANELS.

C24

24 STRANDS OF 14 GAUGE BASKET WEAVE COPPER CABLE. 98,640 CIRCULAR MILLS OF CONDUCTIVITY. EXCEEDS CLASS I REQUIREMENTS.

C29

29 STRANDS OF 17 GAUGE BASKET WEAVE COPPER CABLE. 192 POUNDS PER THOUSAND FEET. 59,450 CIRCULAR MILLS OF CONDUCTIVITY. EXCEEDS CLASS I REQUIREMENTS.

BB3B

ADHESIVE BASE

A CAST BRONZE BASE WITH 2-WAY BOLT PRESSURE CABLE HOLDER. CAP CAN BE ROTATED 90 DEGREERS. SUITABLE FOR USE ON BUILT-UP, SINGLE MEMBRANE, OR OTHER ROOF SURFACES WHERE ALL MECHANICAL PENETRATIONS MUST BE AVOIDED. FOR USE WITH ADHESIVES COMPATABLE TO ROOF SURFACE. 5/16-18 STAINLESS STEEL BOLT AND WASHER. 4-1/4"x4" (10.8CM x 10.2CM); APPROXIMATELY 16 OZ. (454 GRAMS). USE SUFFIX 3/8, 1/2 OR 5/8 TO DENOTE AIR TERMINAL THREAD SIZE.

BB8B

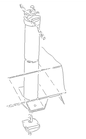
CABLE TO THREADED ROD

HEX BRASS 2-BOLT SPLICER FOR CABLE TO THREADED ROD OR AIR TERMINAL. 5/46-18 STAINLESS STEEL BOLT. 2-7/8" x 3/4" HEX (7.3CMx2.15CM); APPROXIMATELY 5 OZ (142 GRAMS). USE SUFFIX 3/8, 1/2 OR 5/8 TO DENOTE AIR TERMINAL THREAD SIZE.

CC2B

CONDUIT CAP

CAST BRONZE CAP MACHINED TO FIT SNUGLY ON SCHEDULE 40 1-1/2" PVC TUBING. THREADED TO ACCEPT 1/2-13 THREADED ROD. COMES WITH 1/2" FLAT WASHER AND 1/2" NUT. APPROXIMATELY 9.0 OZ.



BF100B

PATENT PENDING

ROUND-ROUND PATENT PENDING

CAST BRONZE BOLT PRESSURE CABLE TO CABLE OR CABLE TO ROD CLAMP. 1-1/2" STAINLESS STEEL CARRIAGE BOLT. SPECIFICALLY DESIGNED FOR CABLE SPLICES ON SINGEL MEMBRANE ROOFS 1-9/16"x1-3/4" (39.7MM x 44.5MM); APPROXIMATELY 7.6 OZ (215 GRAMS)

GROUND RODS - GR

UL LISTED COPPER CLAD STEEL GROUND RODS.

GR3 3/4" x 10'

BLUNT AIR TERMINALS - AT

CLASS I - 1/2" DIAMETER, THREADED BASE, UL LISTED

AT24AB 1/2" x 24"

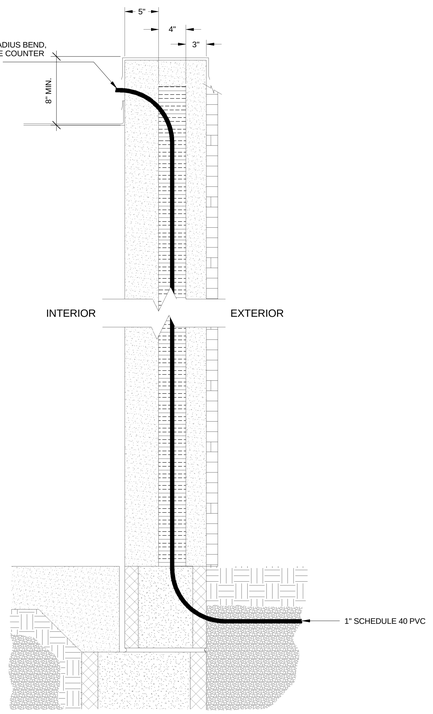
GC5/8

CAST BRONZE CABLE TO 5/8" GROUND ROD CLAMP. HAS TWO STAINLESS STEEL BOLTS 3/8"-16 x 1-1/4". (APPROXIMATELY 9.3 OZ)

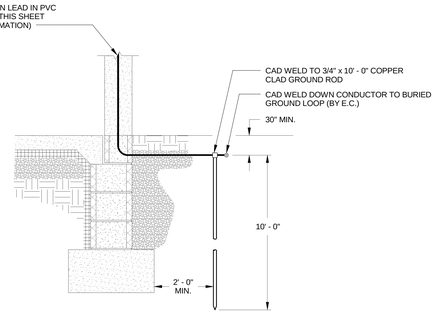
2 MISCELLANEOUS LIGHTNING PROTECTION DEVICES
NOT TO SCALE

GENERAL NOTES:

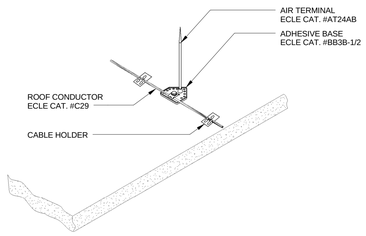
1. THE COMPLETED CLASS 1 LIGHTNING PROTECTION INSTALLATION SHALL MEET NFPA 780 AND UL 96A. THE UL MASTER LABEL SHALL BE ISSUED 90 DAYS AFTER WORK IS COMPLETED. EQUIPMENT SHALL BE PRODUCTS OF EAST COAST LIGHTING EQUIPMENT INC. OR EQUAL.
2. CONTRACTOR SHALL CERTIF'Y ENTIRE GROUNDING SYSTEM INCLUDING COMPONENTS UPON COMPLETION OF CONSTRUCTION.
3. THE COMPLETED CLASS I LIGHTING PROTECTION INSTALLATION SHALL MEET NFPA 780 AND UL 96A. THE U.L. MASTER LABEL WILL BE ISSUED 90 DAYS AFTER WORK IS COMPLETED.
4. BARE COPPER MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM SURFACES AND ALUMINUM MATERIALS SHALL NOT BE INSTALLED ON COPPER SURFACES.
5. ANY GROUNDED METALLIC BODY WITHING 6' OF THE LIGHTING CONDUCTOR SHALL BE BONDED TO THE LIGHTING PROTECTION SYSTEM. SUCH AS EXHAUST FANS, ROOF VENTS, METAL COOLING TOWERS, H.V.A.C UNITS, LADDERS, RAILINGS, ANTENNAS, SKYLIGHTS, METAL STACKS, AND ANY OTHER LARGE METAL BODIES.
6. ALL METALLIC UNDERGROUND PIPING ENTERING THE STRUCTURE SHALL BE BONDED TO THE LIGHTING PROTECTION SYSTEM.
7. AIR TERMINALS ON FLAT ROOF AREAS, SHALL BE SPACED AT MAXIMUM 20' INTERVALS AROUND THE ROOF PERIMETER AND AT MAXIMUM 50' IN THE INTERIOR ROOF AREA AND EXTEND A MINIMUM OF 12" ABOVE THE HIGHEST POINT SUCH AS EXHAUT FANS, ROOF VENTS, METAL COOLING TOWERS, H.V.A.C. UNITS, LADDERS, RAILINGS, ANTENNAS, SKYLIGHTS, METAL STACKS, AND ANY OTHER LARGE METAL BODIES WHOSE HEIGHT EXCEEDS THAT OF AIR TERMINAL IN USE, UNLESS PROTECTED BY HIGHER STRUCTURE WITH LIGHTNING PROTECTION.
8. SURGE TRANSIENT PROTECTION OF SERVICES IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR OF THE SUPPLIER OF SENSITIVE EQUIPMENT. (I.E. COMPUTERS, COPIERS, TELEPHONES, ETC.)
9. ACTUAL JOBSITE CONDITIONS MAY REQUIRE SLIGHT ALTERATIONS IN AIR TERMINAL, DOWN CONDUCTOR AND GROUNDROD LOCATIONS.
10. CONTRACTOR SHALL REFERENCE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ALL ROOF PENETRATIONS.
11. REFER TO ARCHITECTURAL DRAWINGS FOR ALL ROOF PENETRATIONS.
12. LIGHTNING PROTECTION LAYOUT IS SHOWN FOR BIDDING PURPOSES ONLY. THE ACTUAL LAYOUT SHALL BE DETERMINED FROM SHOP DRAWING LAYOUTS FROM A QUALIFIED LIGHTNING PROTECTION VENDOR. REFER TO SPECIFICATIONS FOR PERFORMANCE CRITERIA.



3 LIGHTNING PROTECTION DOWN LEAD CONDUIT DETAIL
NOT TO SCALE



4 LIGHTNING PROTECTION DOWN LEAD DETAIL
NOT TO SCALE



5 AIR TERMINAL DETAIL
NOT TO SCALE

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer: Dewberry — 600 Parsippany Road, Suite 301, Parsippany, NJ 07054-3715, Tel (973) 576-9683, Fax (973) 739-9710

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Project Number	Scale
3468	AS INDICATED

Drawing Title: ELECTRICAL ROOF PLAN - POWER AND LIGHTNING PROTECTION

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	TME	RJD

VA Project Number: 595-109

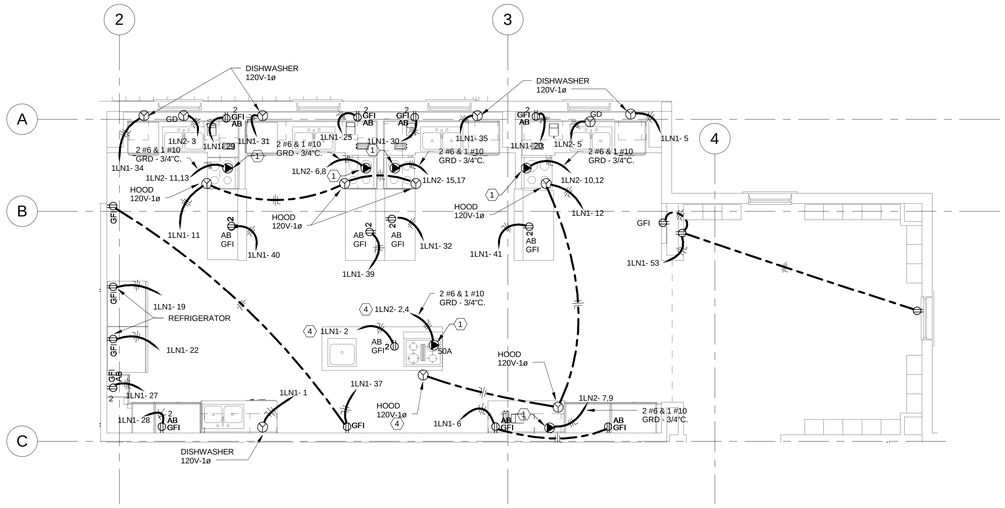
Building Number: 34

Drawing Number: ES205

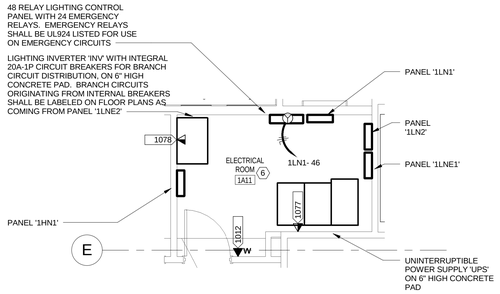
Dwg. 109 of 123

Office of Facilities Management

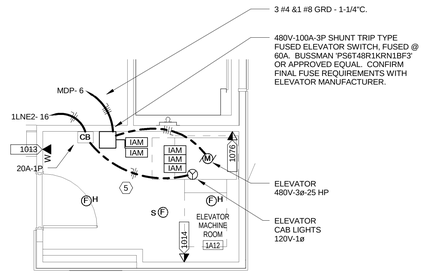
Department of Veterans Affairs



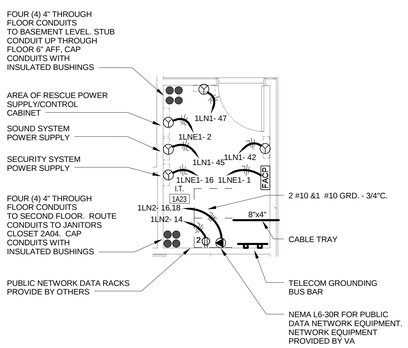
1 PARTIAL FIRST FLOOR PLAN - TRAINING KITCHEN ROOM 1A41
SCALE: 1/4" = 1'-0"



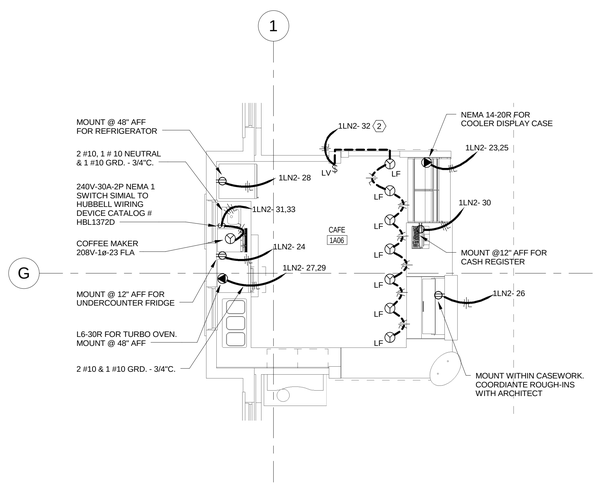
2 PARTIAL FIRST FLOOR PLAN - ELECTRIC ROOM 1A11
SCALE: 1/4" = 1'-0"



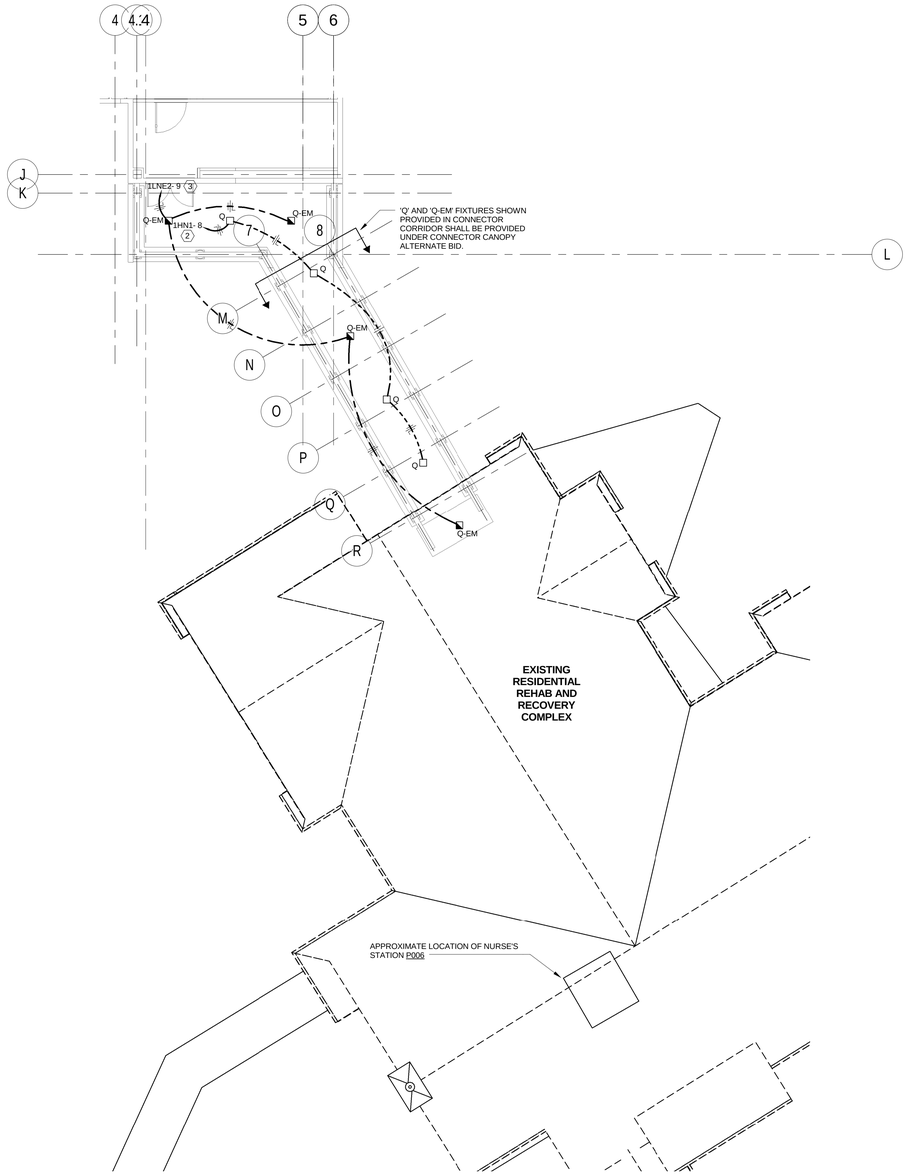
3 PARTIAL FIRST FLOOR PLAN - ELECTRIC ROOM 1A12
SCALE: 1/4" = 1'-0"



4 PARTIAL FIRST FLOOR PLAN - IT ROOM 1A23
SCALE: 1/4" = 1'-0"



6 PARTIAL FIRST FLOOR PLAN - CAFE 1A06
SCALE: 1/4" = 1'-0"



5 PARTIAL FIRST FLOOR LIGHTING PLAN - CONNECTING CANOPY
SCALE: 1/8" = 1'-0"

⬡ - ELECTRICAL KEYNOTES

1. NEMA L6-50R RECEPTACLE. CONFIRM FINAL EQUIPMENT CONNECTION REQUIREMENTS BEFORE PERFORMING ROUGH-INS FOR OVENRANGE RECEPTACLE.
2. ROUTE BRANCH CIRCUIT THROUGH FIRST FLOOR LIGHTING CONTROL RELAY PANEL, TERMINATING ON RELAY, BEFORE TERMINATING AT INDICATED PANEL.
3. ROUTE BRANCH CIRCUIT THROUGH FIRST FLOOR LIGHTING CONTROL RELAY PANEL, TERMINATING ON EMERGENCY RELAY, BEFORE TERMINATING AT INDICATED PANEL.
4. FOR BRANCH CIRCUIT SHOWN, EC SHALL FEED OUTLET/DEVICE FROM BELOW.
5. HEAT DETECTORS WITHIN ROOM SHALL BE PROVIDED A MAXIMUM DISTANCE OF 2'-0" FROM SPRINKLER HEADS.
6. PROVIDE 6" HIGH CONCRETE HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT WITHIN ROOM.

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

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Project Number	Scale
3468	As indicated

Drawing Title: PARTIAL FIRST FLOOR ELECTRICAL PLANS - LIGHTING, POWER, AND SIGNAL

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	TME	RJD

VA Project Number: 595-109

Building Number: 34

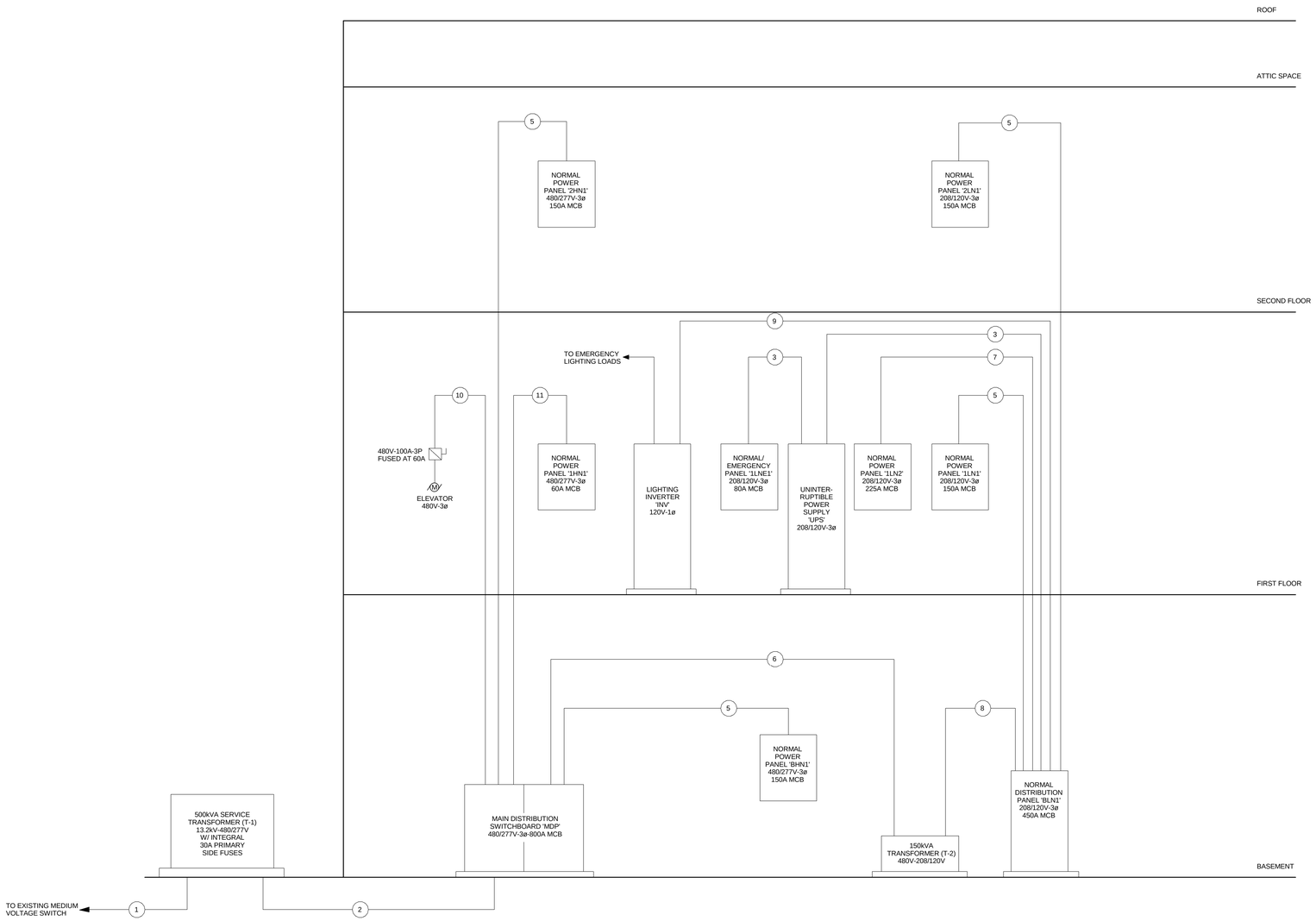
Drawing Number: ES206

Dwg. 110 of 123

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 ELECTRICAL RISER DIAGRAM
NOT TO SCALE

FEEDER LEGEND:

1. 3 #4/0 (15kV) & 1 # 4/0 600V GRD - 4"C. VIA NEW TWO WAY DUCTBANK
2. 2 - 4"C. EACH WITH 4 #500kCMIL & 1 #1/0 GRD. VIA NEW FOUR WAY DUCTBANK
3. 3 #3, 1 #1/0 NEUT, & 1 #8 GRD. - 2"C
4. 4 #1 & 1 #6 GRD. - 1-1/2"C.
5. 4 #1/0 & 1 #6 GRD. - 2"C
6. 3 #4/0 & 1 #4 GRD. - 2-1/2"C.
7. 4 #4/0 & 1 #4 GRD. - 2-1/2"C
8. 2 - 2-1/2"C. EACH WITH 4 #4/0 & 1 #2 GRD.
9. 2 #4 & 1 #10 GRD. - 1"C.
10. 3 #4 & 1 #8 GRD. - 1-1/4"C.
11. 4 #4 & 1 #10 GRD. - 1-1/4"C.

GENERAL NOTES THIS DRAWING:

1. LIGHTING INVERTER 'INV' CONTAINS INTEGRAL BRANCH CIRCUIT BREAKERS (20-1P). ON FLOOR PLANS, BRANCH CIRCUITS TERMINATING AT INTEGRAL CIRCUIT BREAKERS SHALL BE LABELED AS COMING FROM PANEL '1LNE2'.

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

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Project Number	Scale
3468	AS INDICATED

Drawing Title: ELECTRICAL RISER DIAGRAM

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	TME	RJD

VA Project Number: 595-109

Building Number: 34

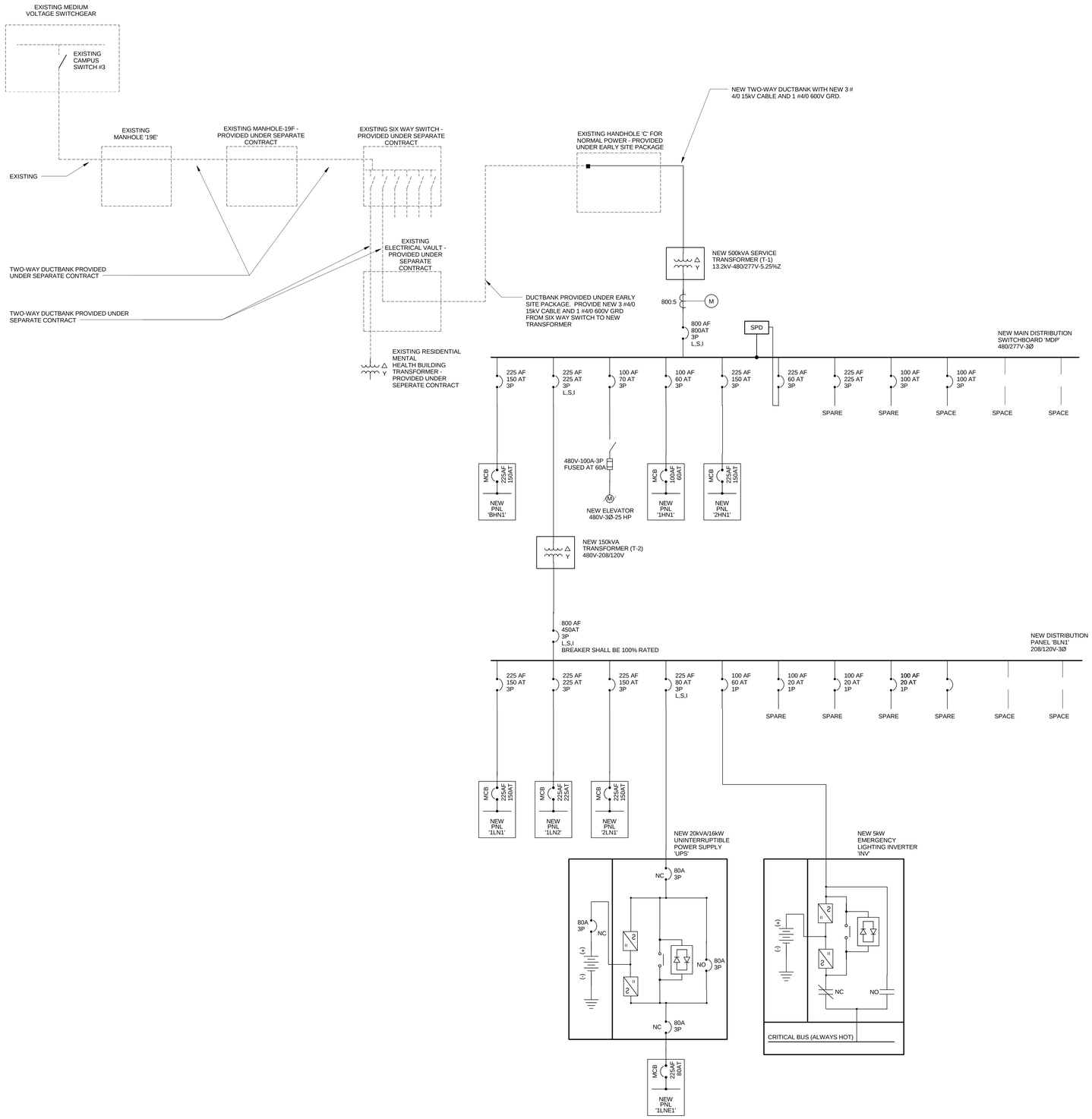
Drawing Number: ES301

Dwg. 111 of 123

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 ELECTRICAL ONE-LINE DIAGRAM
NOT TO SCALE

GENERAL NOTES THIS DRAWING:

1. DIGITAL MULTIMETER AND SURGE PROTECTION DEVICE SHALL BE INTEGRAL TO SWITCHBOARD 'MDP'.
2. PROVIDE 3 #4 & 1 10 GRD. FOR CONNECT FROM BREAKER TO NEW SURGE PROTECTIVE DEVICE.
3. SEE PANEL SCHEDULE FOR EXACT AMOUNT OF SPARES AND SPACES REQUIRED.
4. REFER TO SITE PLAN ON DRAWING ES101 FOR LOCATIONS OF EXISTING AND NEW DUCTBANKS AND MANHOLES/HANDHOLES.
5. CRITICAL BUS OF LIGHTING INVERTER CONTAINS 20A-1P CIRCUIT BREAKERS FEEDING LIFE SAFETY LIGHTING AND EXIT SIGNS ONLY. SEE LIGHTING FLOOR PLANS FOR BRANCH CIRCUITS REQUIRED.
6. IT SHALL BE BROUGHT TO THE CONTRACTORS ATTENTION THAT ALL CIRCUIT BREAKERS CONNECTED TO EMERGENCY LOADS (UPS AND INVERTER LOADS) SHALL BE SELECTIVELY COORDINATED.

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

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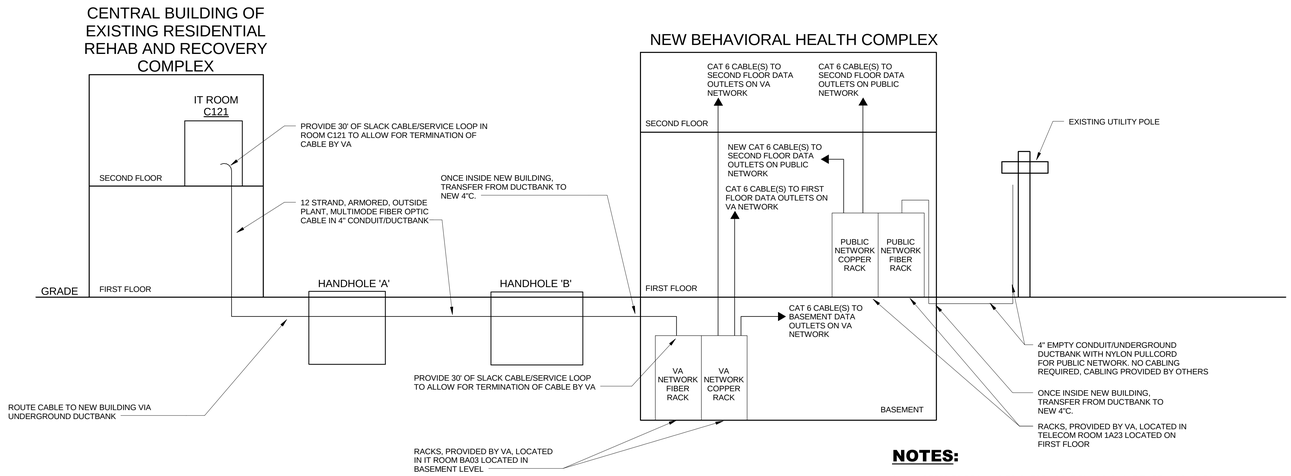
Project Number	3468
Scale	AS INDICATED
Drawing Title	ELECTRICAL ONE-LINE DIAGRAM
Approved: Project Director	
Project Title	Behavioral Health Complex
Location	1700 South Lincoln Ave. Lebanon, PA 17042
Date	07/27/2012
Checked	TME
Drawn	RJD
VA Project Number	595-109
Building Number	34
Drawing Number	ES302
Dwg. 112 of 123	

Office of Facilities Management

Department of Veterans Affairs

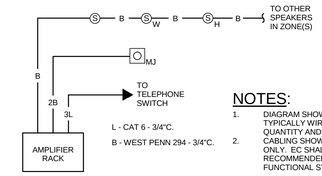
VA FORM 08-6231, OCT 1978



NOTES:

1. REFER TO DRAWING ES101 FOR LOCATION AND QUANTITY OF HANDHOLES AND DUCTBANKS.
2. REFER TO FLOOR PLANS (ES201-ES203) AND DATA DEVICE SCHEDULE (ES503) FOR DIRECTION ON WHICH OUTLETS SHALL BE ON EITHER VA NETWORK OR PUBLIC NETWORK.
3. ALL FIBER OPTIC CABLING INSTALLED UNDERGROUND SHALL BE OF THE OUTSIDE PLANT TYPE.
4. TERMINATION OF COPPER AND FIBER CABLING AT RACKS SHALL BE PROVIDED BY VA. TERMINATION OF COPPER AT USER OUTLETS SHALL BE PROVIDED BY EC.

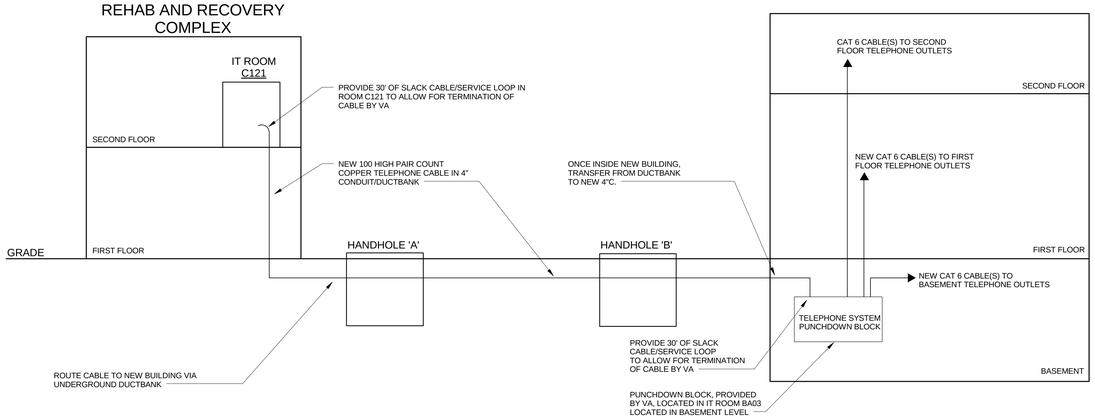
1 DATA SYSTEM RISER DIAGRAM
NOT TO SCALE



NOTES:

1. DIAGRAM SHOWS HOW SPEAKERS ARE TYPICALLY WIRED. REFER TO FLOOR PLANS FOR QUANTITY AND LOCATION OF SPEAKERS.
2. CABLING SHOWN IS FOR BIDDING PURPOSES ONLY. EC SHALL PROVIDE MANUFACTURER RECOMMENDED WIRING TO PROVIDE A FULLY FUNCTIONAL SYSTEM

2 TYPICAL PAGING SYSTEM WIRING DIAGRAM
NOT TO SCALE



NOTES:

1. REFER TO DRAWING ES101 FOR LOCATION AND QUANTITY OF HANDHOLES AND DUCTBANKS.
2. REFER TO FLOOR PLANS (ES201-ES203) AND DATA DEVICE SCHEDULE (ES503) FOR QUANTITY AND LOCATION OF TELEPHONE OUTLETS.
3. TERMINATION OF COPPER CABLING AT RACKS/PUNCHDOWN BLOCKS SHALL BE PROVIDED BY VA. TERMINATION OF COPPER AT USER OUTLETS SHALL BE PROVIDED BY EC.

3 TELEPHONE SYSTEM ONE LINE DIAGRAM
NOT TO SCALE

▽\△ QS CONTROL LINK (* SEE BELOW)

▼\▲ QS CONTROL LINK (* SEE BELOW)
(CONNECT WIRES #1, #3 AND #4. DO NOT CONNECT WIRE #2.

QS WIRING AS REQUIRED BY CONTROL LINK LENGTH:

CONTROL LINK LENGTH	WIRE GUAGE	AVAILABLE FROM LUTON IN ONE CABLE
LESS THAN 500FT USE: △ OR ▲	POWER (TERMINALS #1 & #2) 1PR #18 AWG	GRX-CBL-346S OR GRX-PCBL-346S
	DATA (TERMINALS #3 & #4) 1PR #22 AWG TWISTED & SHIELDED	
500FT TO 2000 FT USE: ▽ OR ▼	POWER (TERMINALS #1 & #2) 1PR #12 AWG	GRX-CBL-46L OR GRX-PCBL-46L
	DATA (TERMINALS #3 & #4) 1PR #22 AWG TWISTED & SHIELDED	

* ALTERNATE DATA-ONLY CABLE: USE APPROVED DATA LINK CABLE (#22 AWG TWISTED & SHIELDED) FROM BELDEN (MODEL #9461)

** TOTAL LENGTH OF THE QS LINK SHALL NOT EXCEED 2000 FEET.

*** QS LINK CAN HAVE A MAXIMUM OF 99 DEVICES, 100 ZONES AND 512 SWITCH LEGS.

□ INPUT POWER

● 2 #12 AWG

△E CAT 5E OR BETTER CABLE FOR DEDICATED LUTRON NETWORK TERMINATED WITH RJ45 CONNECTORS (TO BE PROVIDED BY EC) MAX 328 LINEAL FEET RUN.

WIRING NOTES:

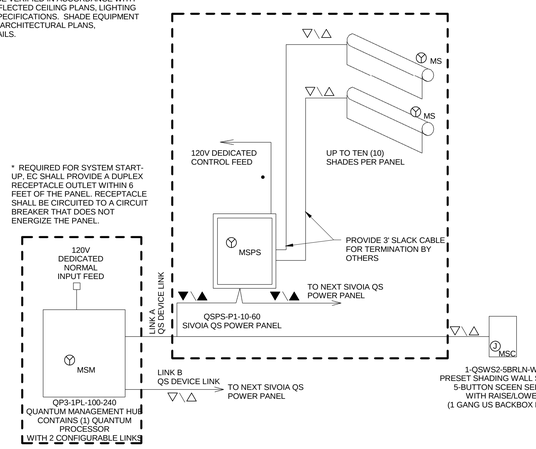
ALL CABLING SHALL BE PROVIDED BY THE EC IN 3/4"C

QS CONTROL LINK

THE QS CONTROL LINK HAS A FREE WIRING TOPOLOGY (DAISY CHAIN, T-TAP, ETC). FOR ILLUSTRATION PURPOSES THE QS LINK IS SHOWN WIRED IN THE DAISY CHAIN FASHION. ADDITIONALLY, CONT4ROLS HAVE BEEN LAID OUT TO ENSURE APPROPRIATE POWER TO EACH DEVICE.CHECK POWER REQUIREMENTS BEFORE MODIFYING WIRING DEVICE ORDER.
USE LUTRON CABLE GRX-CBL-346S (4C NON-PLENUM) OR GRX-CBL-46S (4C PLENUM).
OTHERWISE USE 2 #18 AWG AND ONE BELDEN #9461.
USE GRX-CBL-46L OR GRX-PCBL-46L (4C PLENUM) FOR LINK LENGTHS GREATER THAN 2000 FEET.

CONCEPT DRAWING NOTES:

CONTROL SYSTEM DRAWING IS PROVIDED FOR CONCEPTUAL PURPOSES ONLY AND IS NOT INTENDED FOR CONSTRUCTION. EXACT EQUIPMENT REQUIREMENTS, INCLUDING LOCATION AND QUANTITES, SHALL BE VERIFIED IN ACCORDANCE WITH THE MOST CURRENT LIGHTING/ELECTRICAL REFLECTED CEILING PLANS, LIGHTING FIXTURE SCHEDULES, CONTROL INTENT AND SPECIFICATIONS. SHADE EQUIPMENT SHALL BE VERIFIED IN ACCORDANCE WITH THE ARCHITECTURAL PLANS, SPECIFICATIONS AND WINDOW SHEDULES/DETAILS.



4 MOTORIZED SHADE WIRING DIAGRAM
NOT TO SCALE

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

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Project Number	Scale
3468	AS INDICATED

Drawing Title: ELECTRICAL DIAGRAMS - AUXILIARY SYSTEMS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date: 07/27/2012 | Checked: TME | Drawn: RJD

VA Project Number: 595-109

Building Number: 34

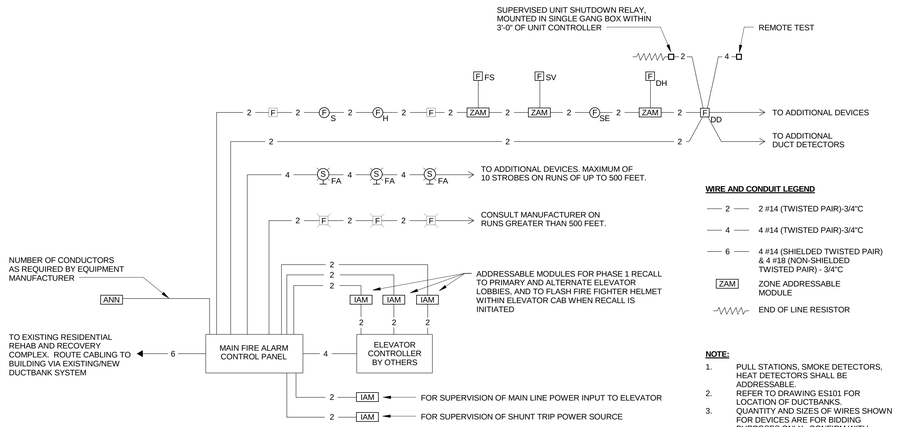
Drawing Number: ES303

Dwg. 113 of 123

Office of Facilities Management

Department of Veterans Affairs

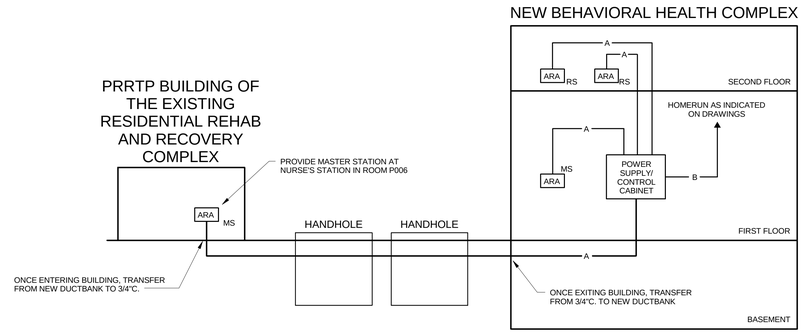
VA FORM 08-6231, OCT 1978



NOTE:

1. PULL STATIONS, SMOKE DETECTORS, HEAT DETECTORS SHALL BE ADDRESSABLE.
2. REFER TO DRAWING ES101 FOR LOCATION OF DUCTBANKS.
3. QUANTITY AND SIZES OF WIRES SHOWN FOR DEVICES ARE FOR BIDDING PURPOSES ONLY. CONFIRM WITH MANUFACTURER ON EXACT TYPE AND QUANTITY OF WIRES REQUIRED

1 TYPICAL FIRE ALARM SINGLE LINE DIAGRAM
NOT TO SCALE



2 AREA OF RESCUE ASSISTANCE RISER DIAGRAM
NOT TO SCALE

CABLING LEGEND:

A — 1 - CAT 5e CABLE - 3/4"C.
B — 2 #12 & 1 #12 GRD. - 3/4"C.

NOTES:

1. WIRING SHOWN IS FOR BIDDING PURPOSES ONLY. CONFIRM WITH MANUFACTURER ON EXACT WIRING REQUIREMENTS.
2. REFER TO DRAWING ES101 FOR LOCATION AND QUANTITY OF HANDHOLES AND DUCTBANKS.

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

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Project Number	Scale
3468	1/8" = 1'-0"

Drawing Title: ELECTRICAL DIAGRAMS - AUXILIARY SYSTEMS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	TME	RJD

VA Project Number: 595-109

Building Number: 34

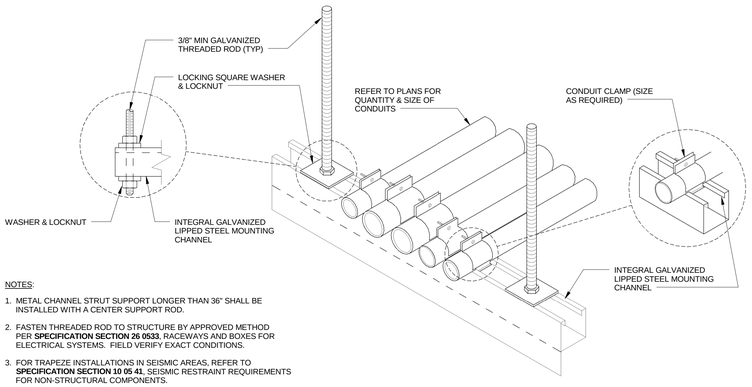
Drawing Number: ES304

Dwg. 114 of 123

Office of Facilities Management

Department of Veterans Affairs

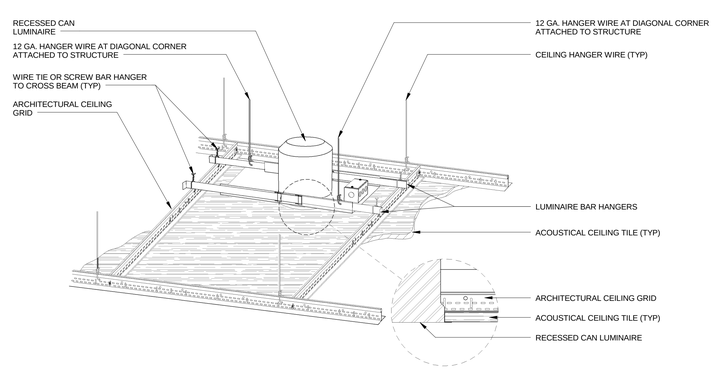
VA FORM 08-6231, OCT 1978



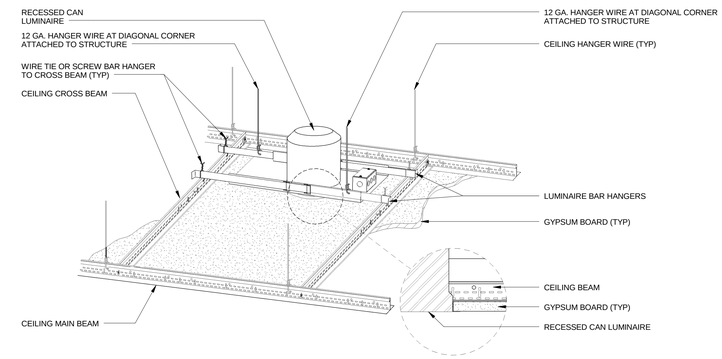
NOTES:

1. METAL CHANNEL STRUT SUPPORT LONGER THAN 36" SHALL BE INSTALLED WITH A CENTER SUPPORT ROD.
2. FASTEN THREADED ROD TO STRUCTURE BY APPROVED METHOD PER **SPECIFICATION SECTION 26 0533**, RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS. FIELD VERIFY EXACT CONDITIONS.
3. FOR TRAPEZE INSTALLATIONS IN SEISMIC AREAS, REFER TO **SPECIFICATION SECTION 10 05 41**, SEISMIC RESTRAINT REQUIREMENTS FOR NON-STRUCTURAL COMPONENTS.

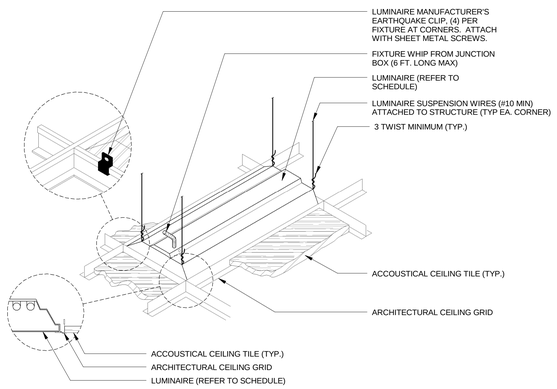
1 CONDUIT TRAPEZE MOUNTING DETAIL
NOT TO SCALE



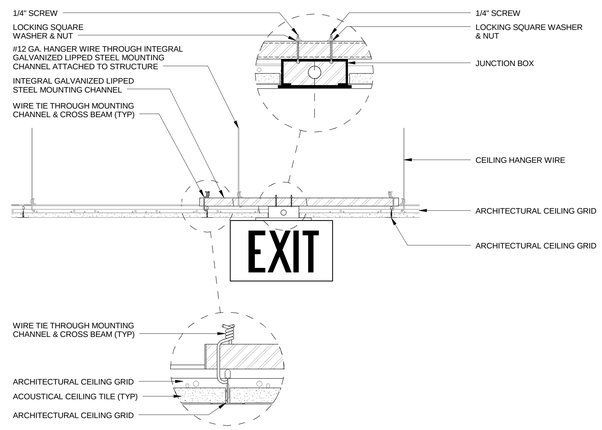
2 DOWNLIGHTING MOUNTING DEATIL (LAY-IN CEILING)
NOT TO SCALE



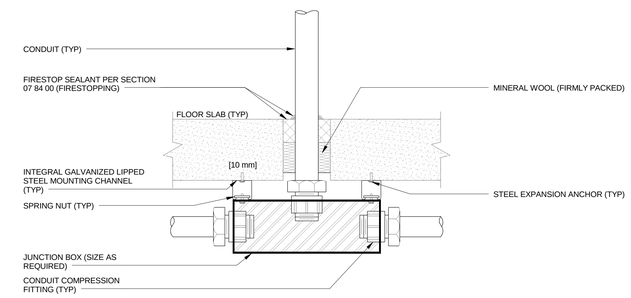
3 DOWNLIGHTING MOUNTING DETAIL - GYPBOARD CEILING
NOT TO SCALE



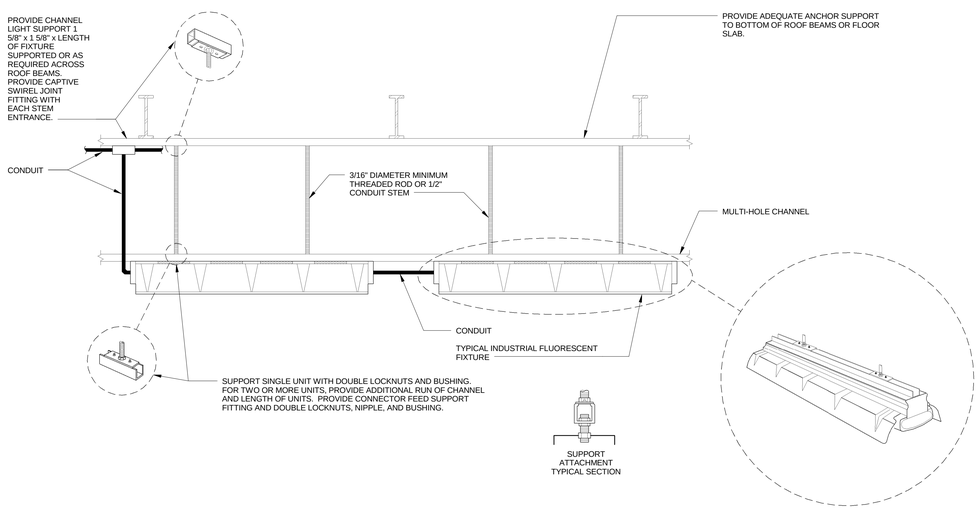
4 LUMINAIRE MOUNTING (LAY-IN CEILING)
NOT TO SCALE



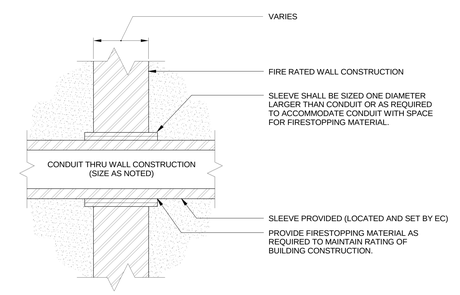
5 EXIT SIGN MOUNTING DETAIL (LAY-IN CEILING)
NOT TO SCALE



6 FLOOR SLAB PENETRATION DETAIL
NOT TO SCALE



7 TYPICAL SUSPENDED INDUSTRIAL FIXTURE MOUNTING DETAIL
NOT TO SCALE



8 WALL SLEEVE/PENETRATION DETAIL
NOT TO SCALE

⚠ WARNING

Arc Flash and Shock Hazard
Appropriate PPE Required

XX INCHES	Flash Hazard Boundry
XX cal/cm^2	Flash Hazard at XX Inches
Catagory#	Clothing Requirements Clothing Requirements
xxxVAC	Shock Hazard When Cover is Removed
XX	Glove Class
XXinches	Limited Approach
Avoid Contact	Restricted Approach
Avoid Contact	Prohibited Approach

Location: EQUIPMENT NAME

9 TYPICAL ARC FLASH HAZARD LABEL
NOT TO SCALE

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

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Project Number	Scale
3468	AS INDICATED

Drawing Title: ELECTRICAL DETAILS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date: 07/27/2012 | Checked: TME | Drawn: RJD

VA Project Number: 595-109

Building Number: 34

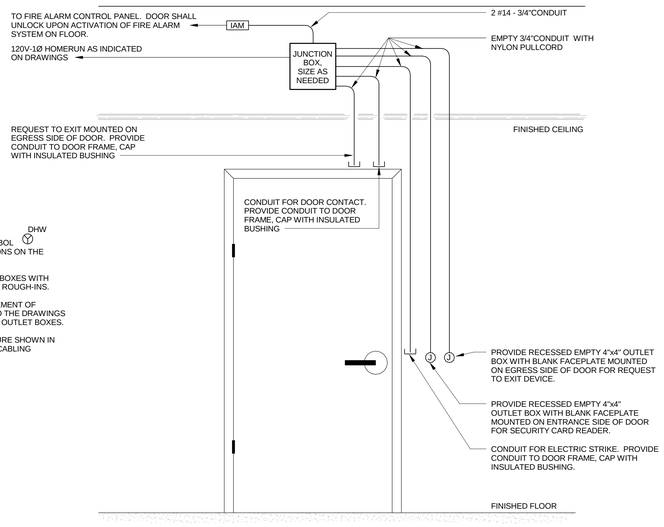
Drawing Number: ES401

Dwg. 115 of 123

Office of Facilities Management

Department of Veterans Affairs

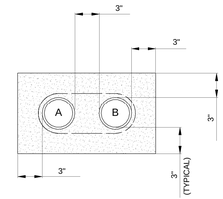
VA FORM 08-6231, OCT 1978



NOTES:

1. THIS DETAIL APPLIES TO THE SYMBOL DHW SHOWN AT SINGLE DOOR LOCATIONS ON THE FLOOR PLANS.
2. COORDINATE FINAL LOCATION OF BOXES WITH ARCHITECT BEFORE PERFORMING ROUGH-INS.
3. DETAIL SHOWS TYPICAL ARRANGEMENT OF RACEWAYS AND BOXES, REFER TO THE DRAWINGS FOR ANY SPECIFIC LOCATIONS OF OUTLET BOXES.
4. EC SHALL PROVIDE INFRASTRUCTURE SHOWN IN DETAIL ONLY. SECURITY SYSTEM CABLING SHALL BE PROVIDED BY OTHERS

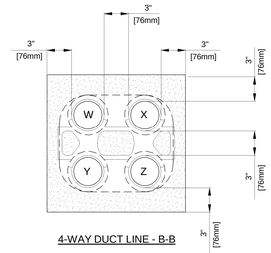
1 SINGLE DOOR SECURITY DETAIL
NOT TO SCALE



2-WAY DUCT LINE - A-A

DUCT A-A LEGEND:

A - ACTIVE 4" DUCT WITH 3 #4/0 15kV CABLE & 1 #4/0 600V GRD.
B - SPARE 4" DUCT W/ NYLON PULLCORD

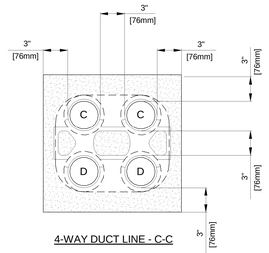


4-WAY DUCT LINE - B-B

DUCT B-B LEGEND:

W - ACTIVE 4" DUCT WITH 12 STRAND, ARMORED, OUTSIDE PLANT, MULTIMODE FIBER OPTIC CABLE
X - ACTIVE 4" DUCT WITH 100 PAIR, HIGH PAIR COUNT, COPPER CABLE
Y - ACTIVE 4" DUCT WITH THREE (3) 1-1/4" INNERDUCTS:
- ONE INNERDUCT WITH ONE (1) RG-11/U COAX CABLE FOR CABLE TV
- ONE INNERDUCT WITH 4 #18 NON-SHIELDED AND 4 #14 SHIELDED FOR MASS NOTIFICATION AND FIRE ALARM SYSTEM
- ONE SPARE INNER DUCT WITH NYLON PULLCORD

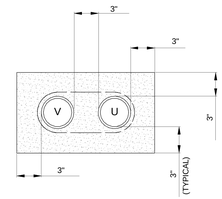
Z - ACTIVE 4" DUCT WITH THREE (3) 1-1/4" INNERDUCTS:
- ONE INNERDUCT WITH NYLON PULLCORD FOR NURSE CALL WIRING PROVIDED BY VA
- ONE INNER DUCT WITH ONE (1) CAT 5e CABLE FOR AREA OF RESCUE ASSISTANCE MASTER STATION IN PRRTP BUILDING
- ONE SPARE INNER DUCT WITH NYLON PULLCORD



4-WAY DUCT LINE - C-C

DUCT C-C LEGEND:

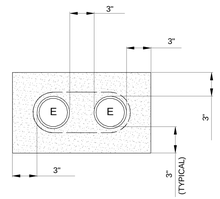
C - ACTIVE 4" DUCT WITH 4 #500kCMIL & 1 #1/0GRD
D - SPARE 4" DUCT W/ NYLON PULLCORD



2-WAY DUCT LINE - D-D

DUCT A-A LEGEND:

V - 4" DUCT WITH PULLCORD FOR PATIENT USE DATA SERVICE FROM LOCAL PROVIDER
U - SPARE 4" DUCT W/ NYLON PULLCORD



2-WAY DUCT LINE - E-E

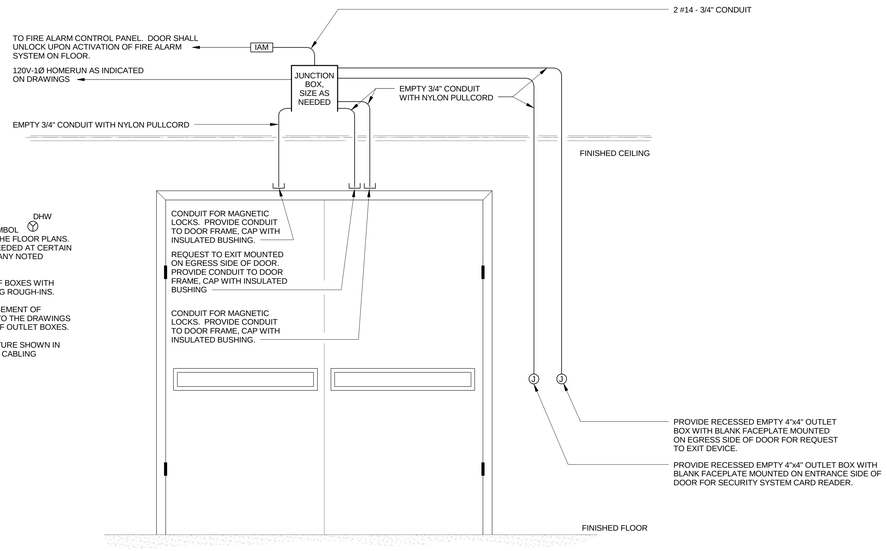
DUCT A-A LEGEND:

E - SPARE 2" DUCT W/ NYLON PULLCORD

DUCT BANK NOTES:

1. CONCRETE SHALL BE 2000 P.S.I. @ 28 DAYS, OR AS SPECIFIED.
2. PROVIDE REINFORCING RODS ON TOP AND BOTTOM OF DUCTS WHEN CROSSING OR PLACED IN ROADWAYS.
3. MINIMUM COVER TO TOP OF ENVELOPE SHALL BE 24" [610mm].
4. PROVIDE MINIMUM 6" [152mm] SPACE BETWEEN POWER AND TELECOMMUNICATION DUCTS. INCREASE SIZE AS REQUIRED.
5. INNERDUCT QUANTITY AND SIZE AS INDICATED ON PLANS.

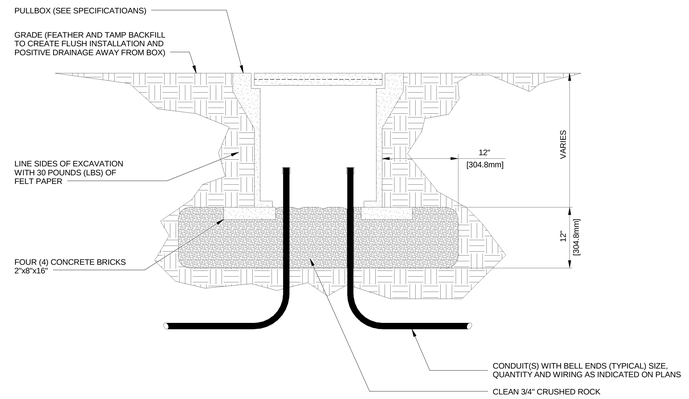
2 DUCT BANK DETAIL
NOT TO SCALE



NOTES:

1. THIS DETAIL APPLIES TO THE SYMBOL DHW SHOWN AT DOUBLE DOORS ON THE FLOOR PLANS. SPECIFIC VARIATIONS MAY BE NEEDED AT CERTAIN DOORS, SEE FLOOR PLANS FOR ANY NOTED ADJUSTMENTS.
2. COORDINATE FINAL LOCATION OF BOXES WITH ARCHITECT BEFORE PERFORMING ROUGH-INS.
3. DETAIL SHOWS TYPICAL ARRANGEMENT OF RACEWAYS AND BOXES, REFER TO THE DRAWINGS FOR ANY SPECIFIC LOCATIONS OF OUTLET BOXES.
4. EC SHALL PROVIDE INFRASTRUCTURE SHOWN IN DETAIL ONLY. SECURITY SYSTEM CABLING SHALL BE PROVIDED BY OTHERS

3 DOUBLE DOOR SECURITY DETAIL
NOT TO SCALE



4 UNDERGROUND CONCRETE PULLBOX DETAIL
NOT TO SCALE

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer	Structural Engineer	MEP Engineer	Environmental Consultant	Cost Estimator
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Project Number	Scale
3468	AS INDICATED

Drawing Title: ELECTRICAL DETAILS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	TME	RJD

VA Project Number: 595-109

Building Number: 34

Drawing Number: ES402

Dwg. 116 of 123

Office of Facilities Management

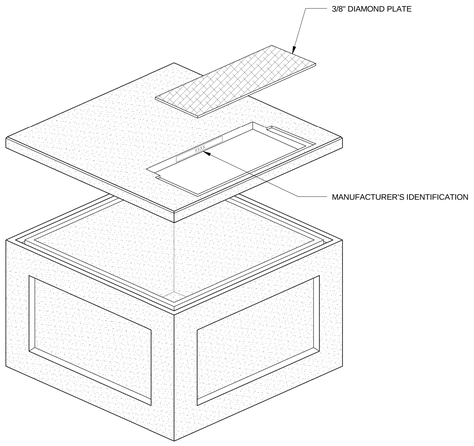
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

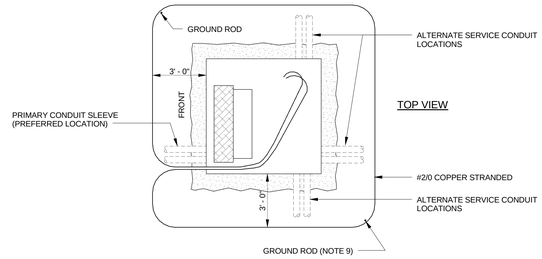
APPROVED SUPPLIER
A.C. MILLER CONCRETE PRODUCTS DEVAULT, PA 19432
BY-CRETE PRECAST PRODUCTS LEBANON, PA 17042
LAKELANDS CONCRETE PRODUCTS LIMA, NY 14485
MONARCH PRECAST CONCRETE CORP. ALLENTOWN, PA 18103
MONARCH PRECAST COMPANY INC. YORK HAVEN, PA 17370
ROTONDO PRECAST TELFORD, PA 18969
ZEISER WILBERT VAULT INC. ELMIRA, NY 19404

NOTES:

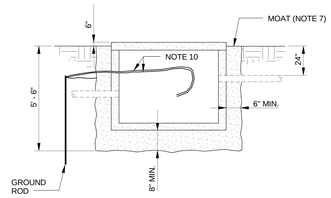
1. FOR DELIVERY OF PRE-CAST FOUNDATION, THE CONTRACTOR SHALL COMPLETE THE FOLLOWING:
   - EXCAVATION TO THE DESIGNATED DEPTH.
   - PROVIDE PAINTED LINES OR STAKES & STRINGS FOR DELIVERY TRUCK ALIGNMENT PURPOSES.
   - THREE (3) 4" x 4" LUMBER TO UNLOAD FOUNDATION TOP.
2. CONCRETE FOR PRE-CAST TRANSFORMER FOUNDATION SHALL BE 5000 P.S.I. @ 28 DAYS.
3. REBAR FOR PRE-CAST TRANSFORMER FOUNDATION SHALL BE GRADE 60, CONFORMING TO ASTM A615 SPECIFICATIONS.
4. PRE-CAST FOUNDATION SHALL CONFORM TO ASTM C890 AND C913 SPECIFICATIONS



1 PRECAST TRANSFORMER FOUNDATION
NOT TO SCALE



TOP VIEW

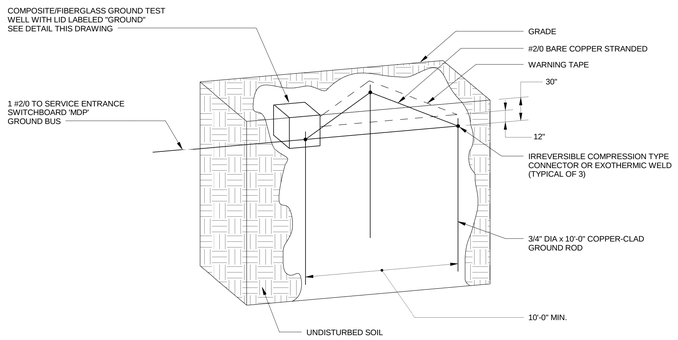


SIDE VIEW

NOTES:

1. THE MINIMUM EXCAVATION REQUIRED TO ACCOMMODATE A PRE-CAST CONCRETE FOUNDATION IS 8' x 8' x 5'-6" DEEP.
2. PRE-CAST FOUNDATION TO BE SET ON A LEVEL 8" MINIMUM TAMPED BED OF TYPE 2B CRUSHED STONE. FOUNDATION TO BE DELIVERED AND SET BY SUPPLIER OF FOUNDATION. PROVIDE IMPERMEABLE MEMBRANE BETWEEN CRUSHED STONE BED AND THE EARTH.
3. ENGINEERING IS TO USE TOP VIEW TO INDICATE WHERE PRIMARY AND SERVICE CONDUITS SHALL ENTER PRE-CAST FOUNDATION.
4. CABLES MUST ENTER AT THESE LOCATIONS SO THAT THEY CAN BE RACKED ON SIDE WALL(S) TO PROVIDE PROPER CLEARANCE FROM PRIMARY CABLES PER NEC. CONDUITS MUST ENTER NEAR CORNERS OF FOUNDATION IN ORDER TO PROVIDE FOR PROPER CABLE BENDING RADIUS AND PULLING SET UPS. ALSO, CONDUITS IN FOUNDATION WALLS MUST BE RE-SEALED.
5. THE CONTRACTOR IS REQUIRED TO SEAL SERVICE ENTRANCE CONDUITS TO PREVENT ANY MIGRATION OF WATER.
6. BACKFILL ON ALL SIDES UP TO FINISH GRADE WITH 6" MINIMUM OF TYPE 2B CRUSHED STONE TO FORM A MOAT. BASED ON DIMENSIONS SHOWN, TOTAL OF STONE REQUIRED = APPROXIMATELY 2.5 TONS.
7. THE STONE MOAT SURROUNDING THE PAD, WHICH IS A NEC REQUIREMENT, IS THERE TO CONTAIN THE OIL IN CASE OF A LEAK AND THEREFORE MAY NOT BE COVERED OVER WITH MACADAM OR SOIL.
8. INSTALL 2/0 BARE 7 STRAND SOFT DRAWN COPPER WIRE (REQUIRED - 90' OR 37 LBS.)
9. UNLESS SHOWN OTHERWISE, DIVIDE COPPERCLAD GROUND RODS (2 REQUIRED - 5/8" x 8'-0") IN UNDISTURBED EARTH AT OPPOSITE CORNERS AS SHOWN. FORM THE GROUND LOOP INCLUDING TAILS WITH ONE CONTINUOUS PIECE OF WIRE. THE GROUND LOOP SHALL BE IN CONTACT WITH EARTH. CLOSE LOOP WITH UL APPROVED CONNECTOR AND ATTACH WIRE TO GROUND RODS VIA CAD-WELD.
10. PROVIDE GROUND WIRE TAILS OF 15' OF 2/0 BARE 7 STRAND SOFT DRAWN COPPER WIRE BEYOND THE ENTRANCE POINT (KNOCK-OUT HOLE).
11. GROUND WIRES TO ENTER FOUNDATION THROUGH A 1" DIAMETER HOLE TO BE DRILLED OR CHISELED IN THE UPPER RIGHT-HAND CORNER OF THE KNOCKOUT PANEL. SEAL FOUNDATION WHERE GROUND WIRES ENTER TO PREVENT PENETRATION OF WATER.
12. WHERE CONDUIT PENETRATES TRANSFORMER VAULT, CONTRACTOR SHALL RE-MORTAR KNOCKOUT AREA AROUND PENETRATION.
13. PVC CONDUITS REQUIRE BELL-ENDS AND SHALL BE TERMINATED FLUSH WITH THE INSIDE SURFACE OF PRE-CAST FOUNDATION.
14. DETAIL SHOWS TYPICAL ARRANGEMENT OF GROUNDING SYSTEM AROUND SERVICE TRANSFORMER VAULT/PAD. SEE DRAWINGS FOR ANY DEVIATION FROM THIS TYPICAL LAYOUT

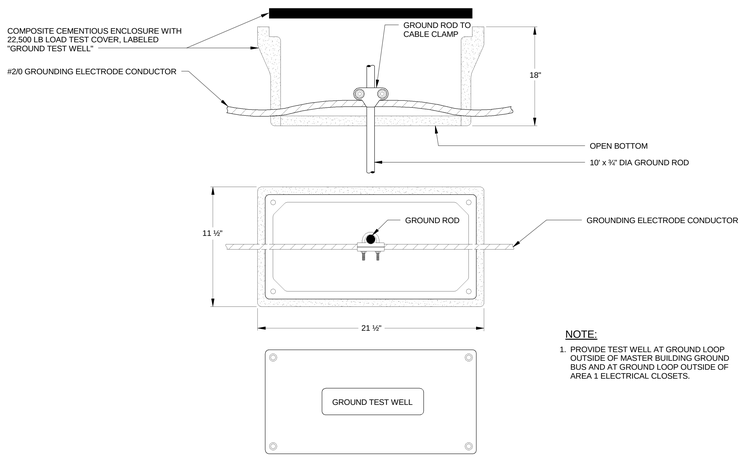
2 INSTALLATION DETAILS FOR TRANSFORMER FOUNDATION AND TRANSFORMER GROUND MAT DETAILS
NOT TO SCALE



NOTES:

1. RODS MAY BE INSTALLED IN LINEAR ARRAY WHEN SPACE IS NOT AVAILABLE TO PERMIT TRIANGULAR FORMATION.
2. PROVIDE AT LEAST ONE TEST WELL FOR EVERY THREE RODS INSTALLED.
3. PROVIDE OWNER AS-BUILT DRAWING SHOWING ALL COMPONENTS ON GROUNDING SYSTEM.

3 SERVICE GROUNDING ELECTRODE (TRIANGULAR FORMATION)
NOT TO SCALE



COVER

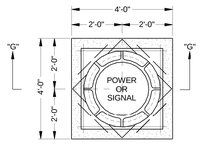
NOTE:

1. PROVIDE TEST WELL AT GROUND LOOP OUTSIDE OF MASTER BUILDING GROUND BUS AND AT GROUND LOOP OUTSIDE OF AREA 1 ELECTRICAL CLOSETS.

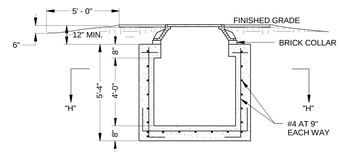
4 GROUND TEST WELL DETAIL
NOT TO SCALE

STRUCTURAL NOTES:

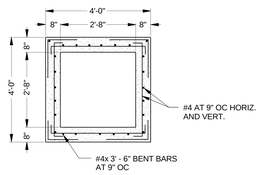
1. ALL REINFORCEMENT BARS FOR HANDHOLES SHALL BE #4.
2. TOP SLAB REINFORCEMENT CONSISTS OF BOTTOM BARS PLACED AS SHOWN. SHORT SPAN BARS SHALL BE ON THE BOTTOM LAYER.
3. BEND AND PLACE ALL REINFORCEMENT SO THAT IT SHALL BE 2" CLEAR OF ALL EXTERIOR SURFACES, 1-1/2" CLEAR OF ALL INTERIOR AND FLOOR SURFACES AND 1" CLEAR OF BOTTOM SURFACES OF TOP SLAB.
4. STRUCTURES SHALL BE REINFORCED CONCRETE. CONCRETE SHALL BE 3,000 P.S.I. AT 28 DAYS UNLESS OTHERWISE SPECIFIED.



HANDHOLE



SECTION "G" - "G"



SECTION "H" - "H"

5 HANDHOLE DETAIL
NOT TO SCALE

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

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Project Number	Scale
3468	AS INDICATED

Drawing Title: ELECTRICAL DETAILS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	TME	RJD

VA Project Number: 595-109

Building Number: 34

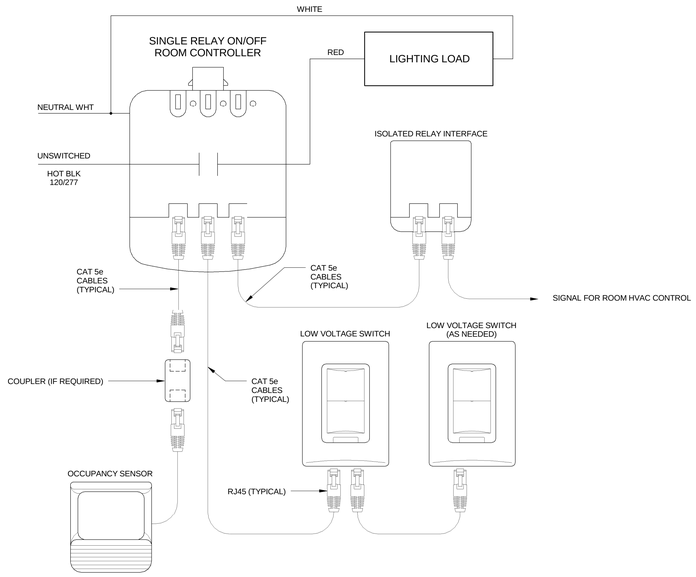
Drawing Number: ES403

Dwg. 117 of 123

Office of Facilities Management

Department of Veterans Affairs

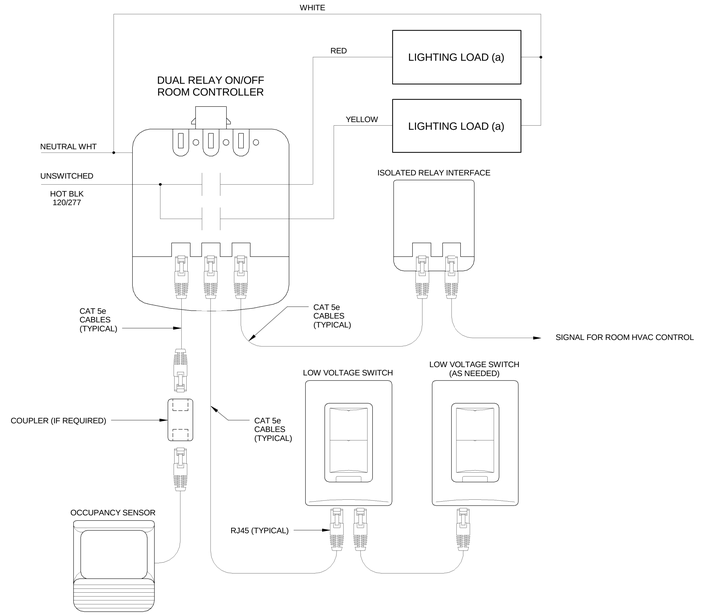
VA FORM 08-6231, OCT 1978



NOTES:

1. SEQUENCE OF OPERATION: IN THIS CONFIGURATION, THE SINGLE RELAY CONTROLLER DEFAULTS TO MANUAL - ON/AUTOMATIC OFF. MAXIMUM OF 4 ROOM CONTROLLERS, CONTROLLING UP TO 8 LOADS.

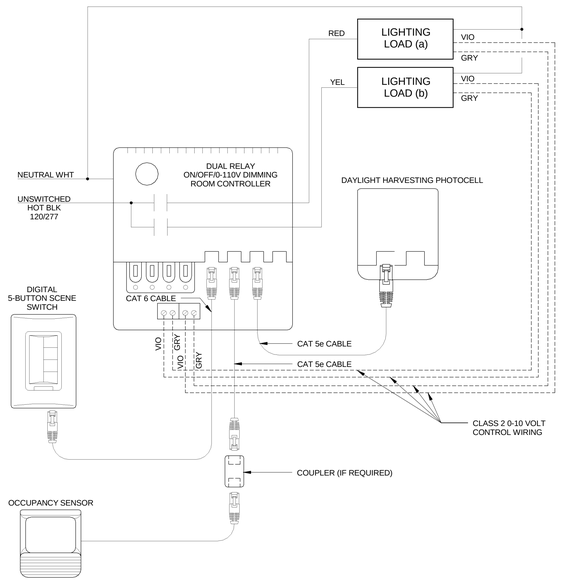
1 SINGLE RELAY ROOM LIGHTING CONTROL DIAGRAM
NOT TO SCALE



NOTES:

1. SEQUENCE OF OPERATION: IN THIS CONFIGURATION, THE DUAL-RELAY CONTROLLER DEFAULTS TO MULTI-LEVEL AUTOMATICALLY-ON/AUTOMATIC OFF. LOAD (a) TURNS AUTOMATICALLY ON AUTOMATICALLY AND LOAD (B) DEFAULTS TO MANUAL-ON CONTROL; BOTH LOADS TURN AUTOMATICALLY OFF. MAXIMUM OF 4 ROOM CONTROLLERS, CONTROLLING UP TO 8 LOADS.

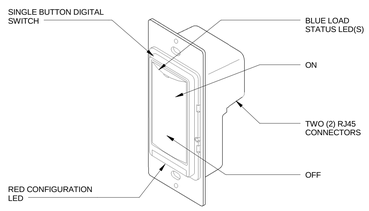
2 DOUBLE RELAY ROOM LIGHTING CONTROL DIAGRAM
NOT TO SCALE



NOTES:

1. SEQUENCE OF OPERATION: IN THIS CONFIGURATION, THE DUAL-RELAY CONTROLLER DEFAULTS TO MULTI-LEVEL AUTOMATIC-ON/AUTOMATIC OFF WITH DIMMING OF ALL LOADS. LOAD (a) TURNS ON AUTOMATICALLY AND LOAD (b) DEFAULTS TO MANUAL-ON CONTROL; BOTH LOADS TURN AUTOMATICALLY OFF. MAXIMUM OF 4 ROOM CONTROLLERS, CONTROLLING UP TO 8 LOADS. DEFAULT DIMMING PARAMETERS ARE ESTABLISHED INCLUDING: LEVELS FOR PRESETS 1-4; FADE TIMES; AND FADE AND RAMP RATES. DIMMING AND SYSTEM PARAMETERS MAY BE CUSTOMIZED.

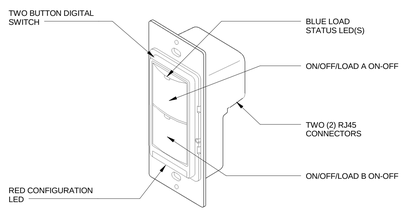
3 ON/OFF/0-10 VOLT DIMMING ROOM LIGHTING CONTROL DETAIL
NOT TO SCALE



NOTES:

1. THIS DETAIL APPLIES WHERE ^{L1} OR IS SHOWN ON THE PLANS.
2. PROVIDE MANUFACTURER RECOMMENDATION LABELING ON SWITCHES TO DENOTE THE FUNCTION OF THE SWITCH.

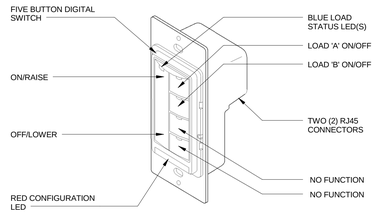
4 SINGLE BUTTON DIGITAL WALL SWITCH DETAIL
NOT TO SCALE



NOTES:

1. THIS DETAIL APPLIES WHERE ^{L2} OR $^{ab}_{L2}$ IS SHOWN ON THE PLANS.
2. PROVIDE MANUFACTURER RECOMMENDATION LABELING ON SWITCHES TO DENOTE THE FUNCTION OF THE SWITCH.

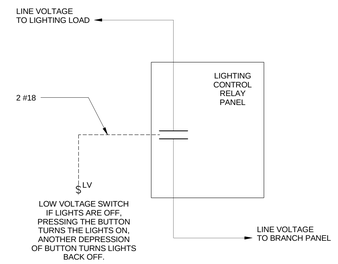
6 TWO BUTTON DIGITAL WALL SWITCH DETAIL
NOT TO SCALE



NOTES:

1. THIS DETAIL APPLIES WHERE $^{ab}_{D}L3$ OR IS SHOWN ON THE PLANS.
2. PROVIDE MANUFACTURER RECOMMENDATION LABELING ON SWITCHES TO DENOTE THE FUNCTION OF THE SWITCH.

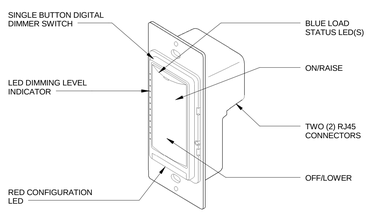
8 FIVE BUTTON DIGITAL WALL DIMMING SWITCH DETAIL
NOT TO SCALE



NOTES:

1. DIAGRAM SHOWS HOW ONE RELAY IS TYPICALLY WIRED TO ONE LOW VOLTAGE SWITCH FOR ON/OFF OPERATION.
2. SEQUENCE OF OPERATION; IF LIGHTS ARE OFF, PRESSING THE BUTTON TURNS THE LIGHTS ON, ANOTHER DEPRESSION OF BUTTON TURNS LIGHTS BACK OFF.
3. FOR LOADS CONNECTTED TO UL 924 EMERGENCY RELAYS, WHEN NORMAL POPWER IS LOST TO PANEL, EMERGENCY RELAYS SHALL BE BYPASSED TO ALLOW FOR LOADS CONNECTED TO RELAY TO RECIEVE POWER AND STAY ON REGARDLESS OF RELAY STATE PRIOR TO LOSS OF POWER.

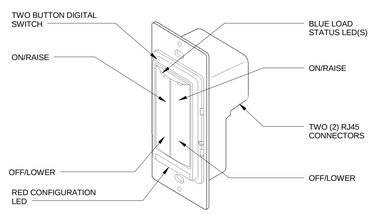
10 LIGHTING CONTROL RELAY PANEL SWITCHING DETAIL
NOT TO SCALE



NOTES:

1. THIS DETAIL APPLIES WHERE $^{D}_{L1}$ OR IS SHOWN ON THE PLANS.
2. PROVIDE MANUFACTURER RECOMMENDATION LABELING ON SWITCHES TO DENOTE THE FUNCTION OF THE SWITCH.

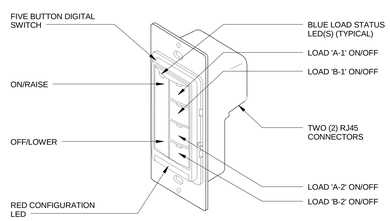
5 SINGLE BUTTON DIGITAL DIMMING SWITCH DETAIL
NOT TO SCALE



NOTES:

1. THIS DETAIL APPLIES WHERE $^{D}_{L2}$ OR $^{AB}_{D}L2$ IS SHOWN ON THE PLANS.
2. PROVIDE MANUFACTURER RECOMMENDATION LABELING ON SWITCHES TO DENOTE THE FUNCTION OF THE SWITCH.

7 TWO BUTTON DIGITAL DIMMING WALL SWITCH DETAIL
NOT TO SCALE



NOTES:

1. THIS DETAIL APPLIES WHERE $^{ab}_{D}L5$ OR IS SHOWN ON THE PLANS.
2. PROVIDE MANUFACTURER RECOMMENDATION LABELING ON SWITCHES TO DENOTE THE FUNCTION OF THE SWITCH.

9 FIVE BUTTON DIGITAL WALL DIMMING SWITCH DETAIL
NOT TO SCALE

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

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Project Number	Scale
3468	1/8" = 1'-0"

Drawing Title: ELECTRICAL DETAILS	Project Title: Behavioral Health Complex	VA Project Number: 595-109
		Building Number: 34
Approved: Project Director	Location: 1700 South Lincoln Ave. Lebanon, PA 17042	Drawing Number: ES404
	Date: 07/27/2012 · Checked: TME · Drawn: RJD	Dwg. 118 of 123

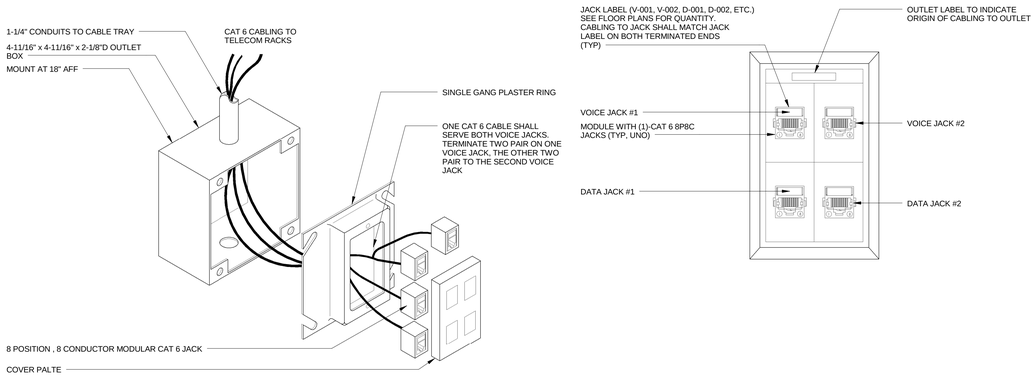
Office of Facilities Management

Department of Veterans Affairs

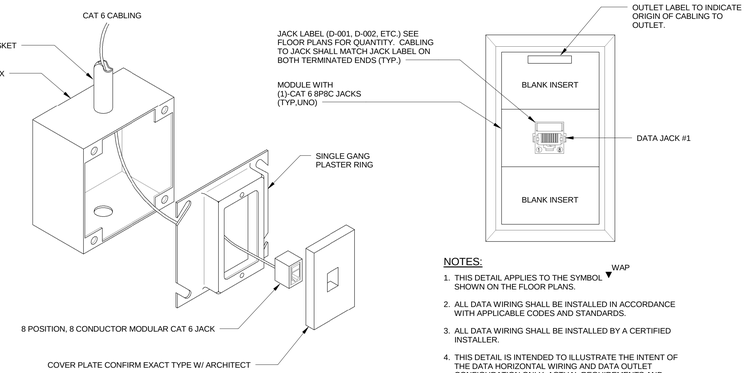
VA FORM 08-6231, OCT 1978

NOTES:

1. THIS DETAIL APPLIES TO THE SYMBOL ▼ SHOWN ON THE FLOOR PLANS.
2. ALL DATA WIRING SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.
3. ALL DATA WIRING SHALL BE INSTALLED BY A CERTIFIED INSTALLER.
4. THIS DETAIL IS INTENDED TO ILLUSTRATE THE INTENT OF THE HORIZONTAL WIRING AND DATA OUTLET CONFIGURATION ONLY, ACTUAL REQUIREMENTS AND CONDITIONS MAY VARY. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY SITE CONDITIONS AND COORDINATE INSTALLATION REQUIREMENTS WITH THE OWNER AND ARCHITECT.
5. THE FOLLOWING APPLIES FOR THE SPLIT CAT 6 CABLE FOR THE VOICE JACKS; THE CAT 6 VOICE CABLE SHALL BE SPLIT, WITH THE BLUE PAIR BEING TERMINATED ON THE LEFT JACK AND THE ORANGE PAIR BEING TERMINATED ON THE RIGHT JACK. THE GREEN AND BROWN PAIR WILL BE WRAPPED AROUND THE VOICE WIRE INSIDE THE WALL/BOX AND WILL BE A MINIMUM OF 6" LONG.
6. CONFIRM ALL LABELING SCHEMES WITH VA BEFORE PROVIDING LABELING OF CABLES, JACKS, FACEPLATES, ETC.



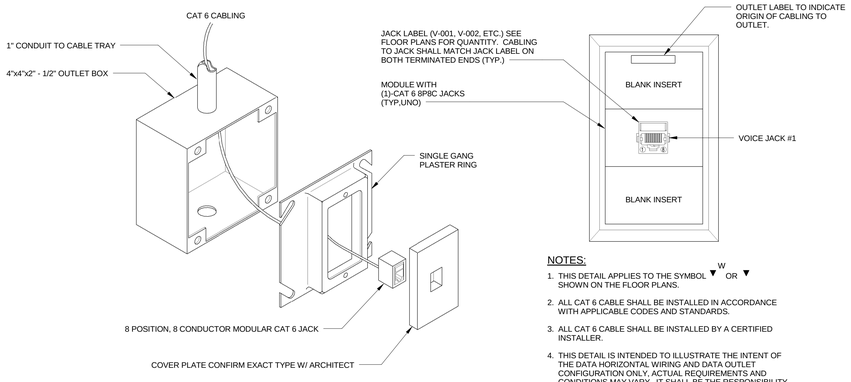
1 COMBINATION DATA/VOICE TELECOMMUNICATIONS OUTLET
NOT TO SCALE



NOTES:

1. THIS DETAIL APPLIES TO THE SYMBOL ▼WAP SHOWN ON THE FLOOR PLANS.
2. ALL DATA WIRING SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.
3. ALL DATA WIRING SHALL BE INSTALLED BY A CERTIFIED INSTALLER.
4. THIS DETAIL IS INTENDED TO ILLUSTRATE THE INTENT OF THE DATA HORIZONTAL WIRING AND DATA OUTLET CONFIGURATION ONLY, ACTUAL REQUIREMENTS AND CONDITIONS MAY VARY. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY SITE CONDITIONS & COORDINATE INSTALLATION REQUIREMENTS WITH OWNER & ARCHITECT.
5. INSTALL OUTLET BOX FLUSHING WITH CEILING WHERE SHOWN ON THE DRAWINGS.
6. CONFIRM ALL LABELING SCHEMES WITH VA BEFORE PROVIDING LABELING OF CABLES, JACKS, FACEPLATES, ETC.

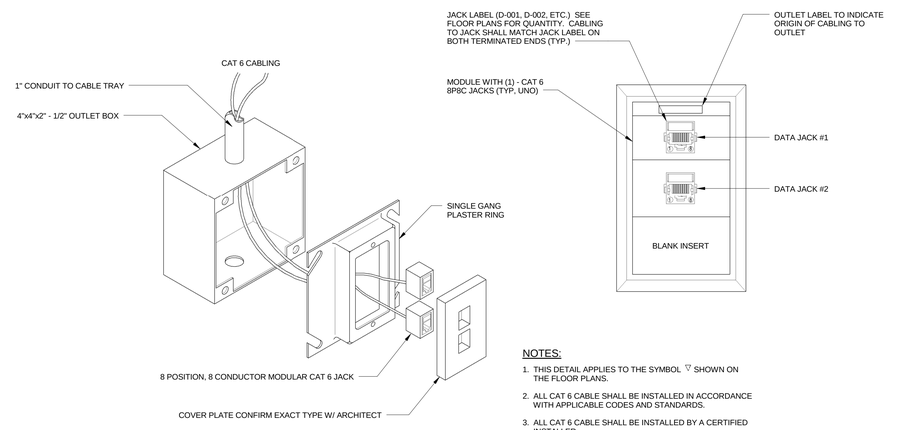
2 SINGLE PORT TELECOMMUNICATION WIRELESS OUTLET DETAIL
NOT TO SCALE



NOTES:

1. THIS DETAIL APPLIES TO THE SYMBOL ▼W OR ▼ SHOWN ON THE FLOOR PLANS.
2. ALL CAT 6 CABLE SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.
3. ALL CAT 6 CABLE SHALL BE INSTALLED BY A CERTIFIED INSTALLER.
4. THIS DETAIL IS INTENDED TO ILLUSTRATE THE INTENT OF THE DATA HORIZONTAL WIRING AND DATA OUTLET CONFIGURATION ONLY, ACTUAL REQUIREMENTS AND CONDITIONS MAY VARY. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY SITE CONDITIONS & COORDINATE INSTALLATION REQUIREMENTS WITH OWNER & ARCHITECT.
5. CONFIRM ALL LABELING SCHEMES WITH VA BEFORE PROVIDING LABELING OF CABLES, JACKS, FACEPLATES, ETC.

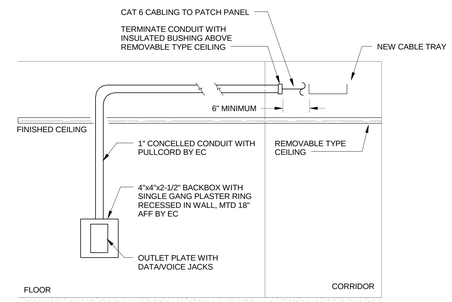
3 SINGLE PORT TELECOMMUNICATION OUTLET DETAIL
NOT TO SCALE



NOTES:

1. THIS DETAIL APPLIES TO THE SYMBOL ▽ SHOWN ON THE FLOOR PLANS.
2. ALL CAT 6 CABLE SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.
3. ALL CAT 6 CABLE SHALL BE INSTALLED BY A CERTIFIED INSTALLER.
4. THIS DETAIL IS INTENDED TO ILLUSTRATE THE INTENT OF THE DATA HORIZONTAL WIRING AND DATA OUTLET CONFIGURATION ONLY, ACTUAL REQUIREMENTS AND CONDITIONS MAY VARY. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY SITE CONDITIONS & COORDINATE INSTALLATION REQUIREMENTS WITH OWNER & ARCHITECT.
5. CONFIRM ALL LABELING SCHEMES WITH VA BEFORE PROVIDING LABELING OF CABLES, JACKS, FACEPLATES, ETC.

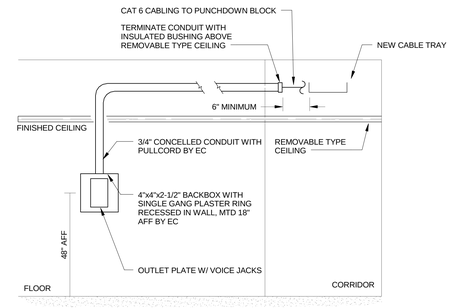
4 DUAL PORT TELECOMMUNICATION OUTLET DETAIL
NOT TO SCALE



NOTE:

1. THIS DETAIL APPLIES TO THE SYMBOLS ▼ OR ▽ SHOWN ON THE FLOOR PLANS.

5 TELECOMMUNICATIONS OUTLET ELEVATION
NOT TO SCALE



NOTE:

1. THIS DETAIL APPLIES TO THE SYMBOL ▼W SHOWN ON THE FLOOR PLANS.

6 WALL TELEPHONE OUTLET ELEVATION
NOT TO SCALE

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer: Dewberry — 600 Parsippany Road, Suite 301, Parsippany, NJ 07054-3715, Tel (973) 576-9683, Fax (973) 739-9710

Structural Engineer: WZG — 180 W. Ridge Pike, Limerick, PA 19468, Tel (214) 329-5559

MEP Engineer: H.E. Lenz Company — 1407 Scalp Avenue, Johnstown, PA 15904, Tel (814) 269-9300, Fax (814) 269-9301

Environmental Consultant: SSM — 1047 North Park Road, P.O. Box 6307, Reading, PA 19610, Tel (610) 621-2000

Cost Estimator: International Consultants, Inc. — 221 Chestnut Street, Suite 200, Philadelphia, PA 19106, Tel (215) 923-8888

COMMONWEALTH OF PENNSYLVANIA, REGISTERED PROFESSIONAL, TIMOTHY M. DARRAH, LICENSE NO. RA-047287-E

ARCHITECT:

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healthcare facilities solutions

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Project Number	Scale
3468	1/8" = 1'-0"

Drawing Title: ELECTRICAL DETAILS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	TME	RJD

VA Project Number: 595-109

Building Number: 34

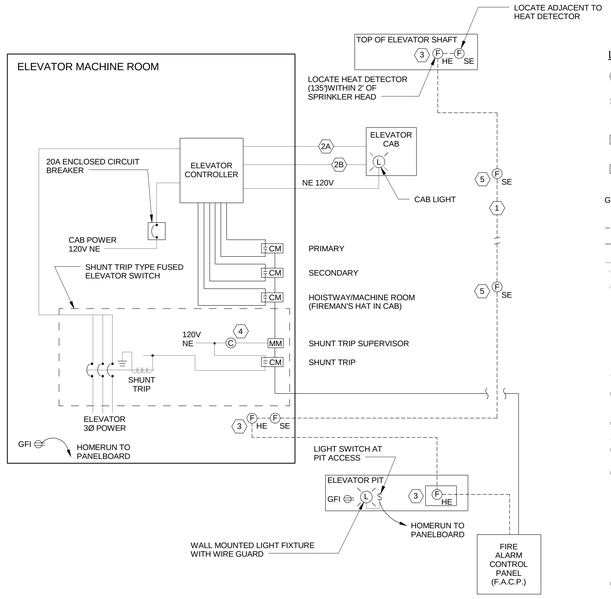
Drawing Number: ES405

Dwg. 119 of 123

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



LEGEND:

F HE	135°ADDRESSABLE FIRE ALARM HEAT DETECTOR FOR ELEVATOR RECALL
F SE	ADDRESSABLE FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR FOR ELEVATOR RECALL
CM	ADDRESSABLE MODULE TO PROVIDE RELAYING FOR SHUNT TRIP, PRIMARY AND SECONDARY RECALL
MM	ADDRESSABLE MONITOR MODULE TO PROVIDE NOTIFICATION IF SHUNT TRIP CIRCUIT IS DE-ENERGIZED
GFI	REQUIRED GROUND FAULT RECEPTACLE 2 #12 & 1 #12 GRD-3/4" CONDUIT TO 20A-1P CIRCUIT BREAKER (EMERGENCY CIRCUIT IF AVAILABLE)
	FIRE ALARM WIRING
	SIGNAL WIRING
	POWER WIRING
L	LIGHT FIXTURE

NOTES ELSEWHERE:

1. TYPICAL SMOKE DETECTOR AND/OR HEAT DETECTOR WIRING TO FIRE ALARM PANEL FOR NOTIFICATION.

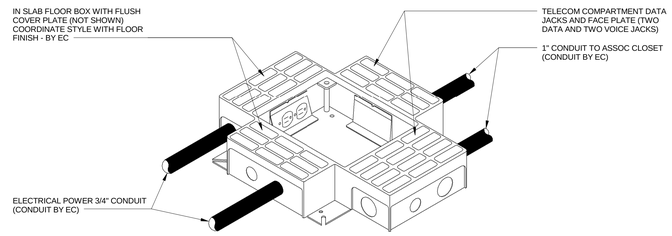
2A AND 2B. ELEVATOR CONTROLLER SIGNALS CAB, IF DESIGNATED FLOOR DETECTOR IS IN ALARM, THEN CAB RETURNS TO ALTERNATE LEVEL. IF THE SMOKE DETECTOR IN THE HOISTWAY IS OR AT OR BELOW THE LOWEST LANDING RECALL, CAB SHALL BE SENT TO THE DESIGNATED LEVEL.

3. HEAT DETECTORS SET AT 135°F. LOCATED IN THE ELEVAT OR MACHINE ROOM, HOISTWAY AND ELEVATOR PIT, (FOR HYDRAULIC ELEVATOR), SHALL PROVIDE SHUNT TRIPPING ON THE ELEVATOR POWER DISCONNECT SERVING THE ELEVATOR. A TIME DELAY SHALL BE PROGRAMMED TO ALLOW THE ELEVATOR TO RECALL FROM THE FURTHEST POINT OF TRAVEL PRIOR TO THE SHUNT TRIP UNLESS THE RECALL IS DONE WITH RECALL BATTERIES. REFER TO REQUIREMENTS OF NFPA 72. THE SPRINKLER SYSTEM SERVING THE MACHINE ROOM AND HOISTWAY SHALL BE INSTALLED WITH 165°F. HEAD, THUS INSURING THE POWER WILL BE DISCONNECTED PRIOR TO THE APPLICATION OF WATER. HEAT DETECTORS MUST BE MOUNTED WITHIN TWO FEET (2') OF THE SPRINKLER HEADS.

4. PROVIDE NORMALLY OPEN RELAY TO SUPERVISE SHUNT TRIP POWER SOURCE AND ANNUNCIATE TROUBLE ALARM UPON LOSS OF POWER AS PER NFPA 72 3-9.4.4

5. ADDRESSABLE FRIE ALARM PHOTOELECTRIC SMOKE DETECTOR MOUNTED AT EACH ELEVATOR LANDING .(QUANTITY AS NECESSARY), LOCATE WITHIN 5' OF ELEVATOR DOOR OPENING.

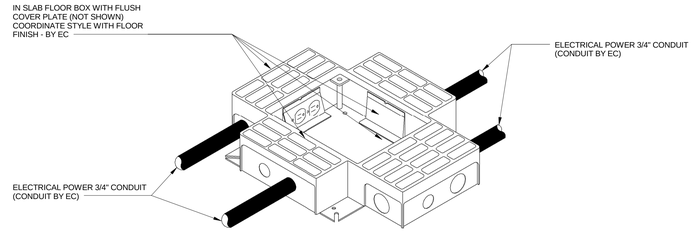
1 ELEVATOR WIRING DIAGRAM
NOT TO SCALE



NOTE:

1. THIS DETAIL APPLIES WHERE SYMBOL IS SHOWN.

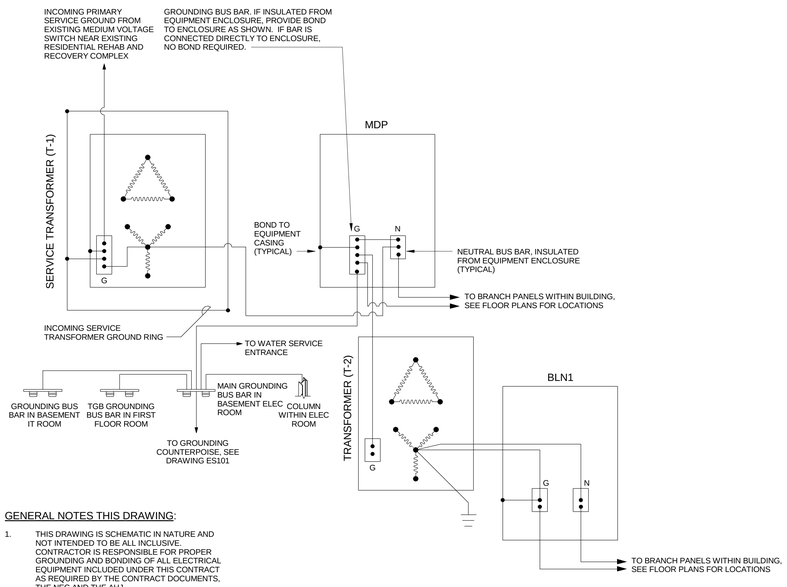
3 RECEPTACLE/TELECOMMUNICATION FLOOR BOX ASSEMBLY DETAIL
NOT TO SCALE



NOTE:

1. THIS DETAIL APPLIES WHERE F SYMBOL IS SHOWN.

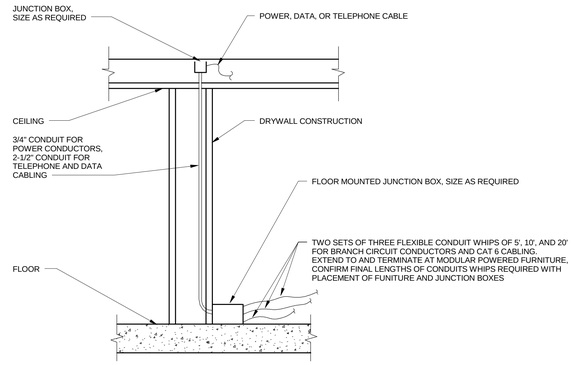
4 RECEPTACLE FLOOR BOX ASSEMBLY DETAIL
NOT TO SCALE



GENERAL NOTES THIS DRAWING:

1. THIS DRAWING IS SCHEMATIC IN NATURE AND NOT INTENDED TO BE ALL INCLUSIVE. CONTRACTOR IS RESPONSIBLE FOR PROPER GROUNDING AND BONDING OF ALL ELECTRICAL EQUIPMENT INCLUDED UNDER THIS CONTRACT AS REQUIRED BY THE CONTRACT DOCUMENTS, THE NEC AND THE AHJ.
2. EQUIPMENT/CONNECTIONS MAY BE SHOWN IN THE SINGULAR. CONTRACTOR SHALL PROVIDE CONNECTIONS AS REQUIRED FOR THE QUANTITY OF EQUIPMENT/SYSTEMS REQUIRED.
3. CONDUCTOR SIZE FOR GROUND TO/FROM MAIN GROUNDING BUSBAR SHALL BE A MINIMUM OF 2/0 AWG.

2 GROUNDING AND BONDING DIAGRAM
NOT TO SCALE



5 INSTALLATION OF OF JUNCTION BOX FOR POWERED FURNITURE
NOT TO SCALE

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer	Structural Engineer	MEP Engineer	Environmental Consultant	Cost Estimator
Dewberry	WZG	H.E. LENZ COMPANY	SSM	International Consultants, Inc.
600 Parsippany Road, Suite 301 Parsippany, NJ 07054-3715 Tel (973) 576-9683 Fax (973) 739-9710	180 W. Ridge Pike Limerick, PA 19468 Tel (214) 329-5559	1407 Scalp Avenue Johnstown, PA 15904 Tel (814) 269-9300 Fax (814) 269-9301	1047 North Park Road, P.O. Box 6307 Reading, PA 19610 Tel (610) 621-2000	221 Chestnut Street, Suite 200 Philadelphia, PA 19106 Tel (215) 923-8888

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL TIMOTHY M. DARNAY ENGINEER No. PE-059733-E

ARCHITECT:

ARRAY
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Project Number	Scale
3468	As indicated

Drawing Title: ELECTRICAL DETAILS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date: 07/27/2012 | Checked: TME | Drawn: RJD

VA Project Number: 595-109

Building Number: 34

Drawing Number: ES406

Dwg. 120 of 123

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

Lighting Fixture Schedule

Type Mark	Description	Manufacturer	Model	Voltage	Lamp	Type Comments
A	2'x2' STEEL HIGH EFFICIENCY FIXTURE W/ DIE FORMED HOUSING, ALUMINUM DOOR FRAME, HIGH REFLECT, LOW GLARE ACRYLIC LENS, MIN 87% EFFICIENT, T5 LAMPS AND ONE ELECTRONIC STEP DIMMING BALLAST	H.E. WILLIAMS	HETG S22 224T5 A EBSD(95)2 UNV	120/277	2 - 24W T5 HO	STATIC, LESS THAN 4" DEEP, STEP DIMMING BALLAST ALLOWS FOR LIGHT LEVEL TO BE STEPPED FROM 0%-50%-100%
A-EM	2'x2' STEEL HIGH EFFICIENCY FIXTURE W/ DIE FORMED HOUSING, ALUMINUM DOOR FRAME, HIGH REFLECT, LOW GLARE ACRYLIC LENS, MIN 87% EFFICIENT, T5 LAMPS AND ONE ELECTRONIC BALLAST	H.E. WILLIAMS	HETG S22 224T5 A SEE SPEC UNV	120/277	2 - 24W T5 HO	STATIC, LESS THAN 4" DEEP
B	2'x2' STEEL HIGH EFFICIENCY FIXTURE W/ DIE FORMED HOUSING, ALUMINUM DOOR FRAME, HIGH REFLECT, LOW GLARE ACRYLIC LENS, MIN 87% EFFICIENT, T5 LAMPS AND ONE ELECTRONIC DIMMING BALLAST	H.E. WILLIAMS	HETG S22 224T5 A SEE SPEC	120/277	2 - 24W T5 HO	STATIC, LESS THAN 4" DEEP
C	6" DIAMETER DOWNLIGHT SELF-FLANGED, SEMI-SPECULAR, SPECULAR LOWER REFLECTOR, LEDS AND DRIVER ACCESSIBLE FROM ABOVE OR BELOW CEILING, 1800 LUMENS. SOLID STATE LED 41K. 50,000 HOURS. 0-10V DIMMING DRIVER	GOTHAM LIGHTING	ALED 41/18 6 AR 277	277V	1 - 38W 4100K LED	
C-EM	6" DIAMETER DOWNLIGHT SELF-FLANGED, SEMI-SPECULAR, SPECULAR LOWER REFLECTOR, LEDS AND DRIVER ACCESSIBLE FROM ABOVE OR BELOW CEILING, 1800 LUMENS. SOLID STATE LED 41K. 50,000 HOURS.	GOTHAM LIGHTING	ALED 41/18 6 AR 120	120V	1 - 38W 4100K LED	
C-EM	6" DIAMETER DOWNLIGHT SELF-FLANGED, SEMI-SPECULAR, SPECULAR LOWER REFLECTOR, LEDS AND DRIVER ACCESSIBLE FROM ABOVE OR BELOW CEILING, 1800 LUMENS. SOLID STATE LED 41K. 50,000 HOURS.	GOTHAM LIGHTING	ALED 41/18 6 AR 120	120V	1 - 38W 4100K LED	
D	2'x2' STEEL TROFFER w/ WHITE FULL FLUSH DOOR, T8 LAMPS, SPRING LOADED LATCHES & ONE ELECTRONIC BALLAST	H.E. WILLIAMS	50G-S22-214T5S-FA12125-(SEE SPEC)-UNV	120/277V	2 - 14W T5	STATIC, LESS THAN 5" DEEP
E	2'x2' STEEL TROFFER w/ WHITE FULL FLUSH DOOR, T8 LAMPS, SPRING LOADED LATCHES & ONE ELECTRONIC BALLAST	H.E. WILLIAMS	50F-S22-214T5S-FA12125-(SEE SPEC)-UNV	120/277V	2 - 14W T5	STATIC, LESS THAN 4" DEEP, SUITIBLE FOR INSTALLATION IN PLASTER CEILING
E-EM	2'x2' STEEL TROFFER w/ WHITE FULL FLUSH DOOR, T8 LAMPS, SPRING LOADED LATCHES & ONE ELECTRONIC BALLAST	H.E. WILLIAMS	50F-S22-214T5S-FA12125-(SEE SPEC)-UNV	120/277	2 - 14W T5	STATIC, LESS THAN 4" DEEP, SUITIBLE FOR INSTALLATION IN PLASTER CEILING
F	PENDANT MOUNTED, CYLINDER LED FIXTURE W/ DUAL REFELCTOR OPTICAL SYSTEM, 45 DEGREE CUTOFF, TWO PART HEAVY GUAGE ALUMINUM HOUSING, 48 DEGREE BEAM DISTRIBUTION AND 4000 LUMEN LED SOURCE	PATHWAY	C66PLB404KMD/6VLBSCLPF/PK	120/277V	1 - 58W LED	VARIABLE PENDANT LENGTH REQUIRED, CONFIRM MOUNTING HEIGHTS WITH ARCHITECT BEFORE ORDERING. DIMMABLE
F-EM	PENDANT MOUNTED, CYLINDER LED FIXTURE W/ DUAL REFELCTOR OPTICAL SYSTEM, 45 DEGREE CUTOFF, TWO PART HEAVY GUAGE ALUMINUM HOUSING, 48 DEGREE BEAM DISTRIBUTION AND 4000 LUMEN LED SOURCE	PATHWAY	C66PLB404KM120/277/6VLBSCLPF/PK	120/277V	1 - 58W LED	VARIABLE PENDANT LENGTH REQUIRED, CONFIRM MOUNTING HEIGHTS WITH ARCHITECT BEFORE ORDERING
G	6" DIAMETER x 6" DEEP LED LIGHT, W/ RUSTPROOF ALUMINUM HOUSING, WET LOCATION LISTED, 1250 LUMEN 41K LED LIGHT ENGINE	KIRLIN	GRR-06019-46	120/277V	1 - 20W 4100K LED	UL LISTED FOR WET LOCATIONS
G-EM	6" DIAMETER x 6" DEEP LED LIGHT, W/ RUSTPROOF ALUMINUM HOUSING, WET LOCATION LISTED, 1250 LUMEN 41K LED LIGHT ENGINE	KIRLIN	GRR-06019-46	120V	1 - 20W 4100K LED	UL LISTED FOR WET LOCATIONS
H	STEEL 4'-0" INDUSTRIAL FIXTURE w/ 10% UPLIGHT, CHAIN TYPE MOUNTING HARDWARE, T5 LAMPS, WHITE ENAMEL FINISH & ONE ELECTRONIC BALLAST	H.E. WILLIAMS	83-4-232-(SEE SPEC)-UNV	120/277V	2 - 28W T5	BOTTOM OF FIXTURE SHALL BE MOUNTED 8'-0" AFF
H-EM	STEEL 4'-0" INDUSTRIAL FIXTURE w/ 10% UPLIGHT, CHAIN TYPE MOUNTING HARDWARE, T5 LAMPS, WHITE ENAMEL FINISH & ONE ELECTRONIC BALLAST	H.E. WILLIAMS	83-4-232-(SEE SPEC)-UNV	120/277V	2 - 28W T5	BOTTOM OF FIXTURE SHALL BE MOUNTED 8'-0" AFF
I-EM	WALL MOUNTED LINEAR FLUORESCENT FIXTURE W/20-GUAGE STEEL HOUSING, WHITE FROSTED ACRYLIC BODY STYLE, TEXTURED MATTE WHITE FINISH AND ONE ELECTRONIC BALLAST	PRUDENTIAL LIGHTING	WAL14 WFA 1T5HO 04 TMW SC 120 WM	120V	1 - 54W T5HO	
J	WALL MOUNT HALF CIRCLE EXTERIOR LED FIXTURE W/SINGLE PIECE DIE-CAST ALUMINUM HOUSING, INTEGRAL HEAT SINK AND LED DRIVER, PRECISION MOLDED ACRYLIC LENSED OPTICS, IP 66 RATED	LITHONIA	WSR 2 10A700/40K SR4 MVOLT	120/277V	1 - 53W 4000K LED	FINISH COLOR AS SLECTED BY ARCHITECT, FIXTURE COMPLETE WITH TWO (2) 10 LED LIGHT ENGINES
K	WALL MOUNT LED WALL WASH W/ DIE-CAST ALUMINUM HOUSING, CLEAR TEMPERED GLASS LENS, 83 DEGREE LIGTH DISTRIBUTION, 4000K LED MODULE	COLOR KINETIC	523-000069-30	277V	50W 4000K LED	FIXTURE SHALL BE MOUNTED AT 45 DEGREE ANGLE WITH RESPECT TO FLOOR ILLUMINATED CEILING/STRUCTURE
L	6" RECESSED LED WALL WASH DOWNLIGHTW/ MESO-OPTICS & REMOTE PHOSPHOR OPTICAL ASSEMBLY	OMEGA LIGHTING	OM6LED-27-LWW-277-R6LED-40K-LWW-CSS	277V	1 - 27W LED	
M	PENDANT MOUNTED ARCHITECTURAL CYLINDER FIXTURE W/ INNER GLASS DIFFUSER, SMOKE COLORED AND ONE ELECTRONIC BALLAST	TECH LIGHTING	700 TD SARGP K-CF277	277V	1 - 26W GX24Q-3	CUSTOM PENDANT LENGTH, FINISH AS SELECTED BY ARCHITECT, FIXTURE SHALL BE MOUNTED SO THAT BOTTOM OFF FIXTURE SHALL BE 6'-0" AFF
N	PENDANT MOUNTED LINEAR WALL WASH FIXTURE W/ ONE-PIECE EXTRUDED ALUMINUM HOUSING, BAKED POWDER COAT FINISH, DIE-FORMED HIGH REFLECTANCE ALUMINUM REFLECTOR, AND ONE ELECTRONIC BALLAST	PRECISION ARCHITECTURAL LIGHTING	ACC01-8-XXX-GDOP-F01M-277-T5HO	277V	2 - 54W T5HO	CUSTOM MOUNTING HARDWARE REQUIRED, CONFIRM WITH ARCHITECT EXACT MOUTNING HEIGHT BEFORE ORDERING. SEE SPECIFICATIONS FOR TYPE OF BALLAST REQURIED.
O	23" DRUM PENDENT FIXTURE W/ ALUMINUM LUMENATE NATURAL DIFFUSER, WHITE ACRYLIC TOP AND BOTTOM DIFFUSERS, SATIN CHROME FINISH, AND ONE ELECTRONIC BALLAST	LUMETTA	P52314 L35 D60 STM	120/277V	2 - 32W TRIPLE TUBE	VARYING MOUNTING HIEGHTS REQUIRED, SEE DRAWINGS FOR MOUNTING HEIGHT. PROVIDE FIXTURE WITH COUPLED STEM MOUNTING HARDWARE
P-EM	4' LINEAR WALL MOUNT, ENCLOSED AND GASKETED ELEVATOR PIT LIGHT FIXTURE W/ IMPACT RESISTANT FIBERGLASS HOUSING, HIGH-IMPACT ACRYLIC DIFFUSER, UL LISTED FOR WET LOCATIONS, AND ONE ELECTRONIC BALLAST	LITHONIA	DMW 2 28T5 MVOLT SEE SPEC	120/277V	2 - 28W T5	
Q	SQUARE SUFACE MOUNTED FIXTURE W/ SOLID BRASS CONSTRUCTION, LISTED FOR DAMP LOCATIONS, AND ONE ELECTRONIC BALLAST	EVERGREEN LIGHTING	IR226Q	120/277V	2 - 26W GX24Q-3	FINISH OF FIXTURE SHALL BE AS SELECTED BY ARCHITECT, PROVIDE COLD WEATHER BALLAST FOR FIXTURE
Q-EM	SQUARE SUFACE MOUNTED FIXTURE W/ SOLID BRASS CONSTRUCTION, LISTED FOR DAMP LOCATIONS, AND TWO ELECTRONIC BALLASTS	EVERGREEN LIGHTING	IR226Q	120/277V	2 - 26W GX24Q-3	FINISH OF FIXTURE SHALL BE AS SELECTED BY ARCHITECT, PROVIDE COLD WEATHER BALLAST FOR FIXTURE
R-EM	CIRCULAR, PENDENT MOUNTED, ARCHITECTURAL UP/DOWN LIGHT FIXTURE W/ DIE STAMPED STEEL CONSTRUCTION, SATIN CHROME PLATED, HAND BLOWN WHITE TRIPLEX GLASS DIFFUSER NAD ONE ELECTRONIC BALLAST	EUREKA	4412-LR-2XCF.D.26-120-S10-**-RC-SC-WH	120	2 - 26W GX24Q-3	CUSTOM STEM LENGTH, CONFIRM MOUNTING HEIGHT WITH ARCHITECT BEFORE ORDERING
S	34" DRUM PENDENT FIXTURE W/ ALUMINUM LUMENATE NATURAL DIFFUSER, WHITE ACRYLIC TOP AND BOTTOM DIFFUSERS, SATIN CHROME FINISH, AND ONE ELECTRONIC BALLAST	LUMETTA	P53414 L35 D60 STM	120/277V	2 - 32W TRIPLE TUBE	VARYING MOUNTING HEIGHTS REQUIRED, SEE DRAWINGS FOR MOUNTING HEIGHT. PROVIDE FIXTURE WITH COUPLED STEM MOUNTING HARDWARE
T	41" LOW PROFILE, LED UNDERCABINET FIXTURE W/ EXTRUDED ALUMINUM BODY, POLYESTER PAINT FINISH, EXTRUDED CLEAR POLYCARBONATE LENS, AND INTEGRAL ON/OFF ROCKER SWITCH	ALKCO	ARIS-41-401-120-DWC	120V	4000K LEDs	FINISH COLOR SHALL BE AS SELECTED BY ARCHITECT
EX1	LED EDGE-LIT EXIT SIGN, CEILING MOUNTED, SINGLE FACED W/ RED LETTERING	DAYBRITE	45VL 1 RM	120/277V	LED	INCLUDE DIRECTIONAL ARROWS ON EXIT SIGNS AS INDICATED ON DRAWINGS WHEN ORDERING EXIT SIGNS
EX2	LED EDGE-LIT EXIT SIGN, CEILING MOUNTED, DOUBLE FACED W/ RED LETTERING	DAYBRITE	45VL 2 RM	120/277V	LED	INCLUDE DIRECTIONAL ARROWS ON EXIT SIGNS AS INDICATED ON DRAWINGS WHEN ORDERING EXIT SIGNS
EX3	LED EDGE-LIT EXIT SIGN, WALL MOUNTED, SINGLE FACED W/ RED LETTERING	DAYBRITE	45VL W 1 RM	120/277V	LED	INCLUDE DIRECTIONAL ARROWS ON EXIT SIGNS AS INDICATED ON DRAWINGS WHEN ORDERING EXIT SIGNS

GENERAL LIGHTING NOTES:

1. ALTHOUGH FIXTURES ARE SPECIFIED WITH TYPE G OR F TRIM ACCESSORIES, SPECIAL TRIM AND MOUNTING ACCESSORIES SHALL BE USED WHERE NECESSARY TO OBTAIN THE CLOSEST COORDINATION AND COMPATIBILITY WITH THE CEILINGS FURNISHED.
2. FIXTURES SHALL BE DESIGNED, ARRANGED, FURNISHED AND INSTALLED COMPLETE WITH ALL ACCESSORIES FOR MOUNTING IN OR ON PLASTER, ACOUSTICAL TILE CONSTRUCTION, T-BAR TYPE CONSTRUCTION, AND OTHER TYPES OF CEILINGS SHOWN ON THE ARCHITECTURAL DRAWINGS.
3. THE CONTRACTOR SHALL CHECK CAREFULLY WITH THE FINAL CEILING FINISH SCHEDULE OF ROOMS BEFORE ORDERING THE FIXTURES FOR THEY WILL BE HELD RESPONSIBLE FOR THE INSTALLATION COMPLETE IN EVERY DETAIL.
4. ALL WORK SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR, INCLUDING ALL DIMENSIONS.
5. LIGHTING FIXTURES SHALL BE FURNISHED FOR THE BRANCH CIRCUIT VOLTAGE INDICATED ON THE CONTRACT DOCUMENTS.
6. COLOR AND FINISH OF ALL LIGHTING FIXTURES AND COMPONENTS SHALL BE AS DIRECTED BY THE ARCHITECT.
7. ELECTRONIC BALLAST SHALL CONTROL NO MORE THAN 2 LAMPS PER FIXTURE.
8. ALL FIXTURES SHALL BE PAINTED AFTER FABRICATION.
9. WHERE THE 'SEE SPEC' APPEARS IN CATALOG NUMBER, REFER TO SPECIFICATIONS FOR EXACT BALLAST REQUIRED.
10. MANUFACTURER'S LISTED ARE TO ESTABLISH A BASE OF DESIGN ONLY AND ARE NOT PROPRIETARY IN ANYWAY. LIGHTING FIXTURES FROM OTHER MANUFACTURER'S, MEETING THE REQUIREMENTS ESTABLISHED BY THE BASE OF DESIGN FIXTURE, WILL BE ACCEPTABLE.

Switchboard: MDP

Location: ELECTRICAL BA02 **Volts:** 480/277 Wye **A.I.C. Rating:** 65,000
Supply From: SERVICE TRANSFORMER **Phases:** 3 **Mains Type:** MCB
Mounting: FLOOR **Wires:** 4 **Mains Rating:** 800 A
Enclosure: NEMA-1 **MCB Rating:** 800 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	PANEL '1HN1'	3	100 A	60 A	8971 VA	
2	PANEL 'BHN1'	3	225 A	150 A	46970 VA	
3	PANEL '2HN1'	3	225 A	150 A	57123 VA	
4	PACKAGED HEAT PUMP ASSEMBLY	3	400 A	300 A	212580 VA	
5	150kVA TRANSFORMER FOR PANEL 'BLN1'	3	225 A	225 A	120000 VA	
6	ELEVATOR - ELEVATOR MACHINE ROOM 1A12	3	100 A	70 A	28235 VA	
7	SURGE PROTECTION DEVICE	3	100 A	60 A	N / A	
8	SPARE	3	225 A	225 A		
9	SPARE	3	225 A	150 A		
10	SPARE	3	100 A	100 A		
11	SPACE	3	225 A	---		
12	SPACE	3	225 A	---		
13	SPACE	3	225 A	---		
				Total Conn. Load:	473879 VA	
				Total Amps:	570 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Fluorescent Lighting	1088 VA	100.00%	1088 VA		
Lighting	6706 VA	100.00%	6706 VA	Total Conn. Load:	473879 VA
Motor	335420 VA	40.00%	134168 VA	Total Est. Demand:	224627 VA
Other	10665 VA	100.00%	10665 VA	Total Conn.:	570 A
Power	120000 VA	60.00%	72000 VA	Total Est. Demand:	270 A

Notes:

Branch Panel: BHN1

Location: ELECTRICAL BA02 **Volts:** 480/277 Wye **A.I.C. Rating:** 35,000
Supply From: MDP **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 150 A
Enclosure: Type 1 **MCB Rating:** 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	BASEMENT - LIGHTING	20 A	1	768 VA	1330					3	15 A	AIR HANDLING UNIT AHU-2	2
3	CHILLED WATER PUMP CWP-1	15 A	3			1330	1330			--	--	--	4
5	--	--	--					1330	1330	--	--	--	6
7	--	--	--	1330	1330					3	15 A	CHILLED WATER PUMP CWP-2	8
9	GEOTHERMAL WATER PUMP GWP-1	25 A	3			3045	1330			--	--	--	10
11	--	--	--					3045	1330	--	--	--	12
13	--	--	--	3045	3045					3	25 A	GEOTHERMAL WATER PUMP GWP-2	14
15	HOT WATER PUMP HWP-1	15 A	3			1329	3045			--	--	--	16
17	--	--	--					1329	3045	--	--	--	18
19	--	--	--	1329	1329					3	15 A	HOT WATER PUMP HWP-2	20
21	RETURN FAN 34-RF-1 - BASEMENT	15 A	3			1330	1329			--	--	--	22
23	--	--	--					1330	1329	--	--	--	24
25	--	--	--	1330	0 VA					3	20 A	Spare	26
27	Spare	30 A	3			0 VA	0 VA			--	--	--	28
29	--	--	--					0 VA	0 VA	--	--	--	30
31	--	--	--	0 VA	0 VA					3	20 A	Spare	32
33	SITE LIGHITNG	20 A	1			2000	0 VA			--	--	--	34
35	SITE LIGHTING	20 A	1					2000	0 VA	--	--	--	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	14835 VA		16067 VA		16067 VA					
			Total Amps:	54 A		59 A		59 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	4000 VA	100.00%	4000 VA		
Motor	42202 VA	40.00%	16881 VA	Total Conn. Load:	46970 VA
Other	0 VA	0.00%	0 VA	Total Est. Demand:	21649 VA
Fluorescent Lighting	768 VA	100.00%	768 VA	Total Conn.:	56 A
				Total Est. Demand:	26 A

Notes:

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions | Date

CONSULTANTS:

Civil Engineer: Dewberry — 600 Parsippany Road, Suite 301, Parsippany, NJ 07054-3715, Tel (973) 576-9683, Fax (973) 739-9710

Structural Engineer: WZG — 180 W. Ridge Pike, Limerick, PA 19468, Tel (214) 329-5559

MEP Engineer: H.F. LENZ COMPANY — 1407 Scalp Avenue, Johnstown, PA 15904, Tel (814) 269-9300, Fax (814) 269-9301

Environmental Consultant: SSM — 1047 North Park Road, P.O. Box 6307, Reading, PA 19610, Tel (610) 621-2000

Cost Estimator: International Consultants, Inc. — 221 Chestnut Street, Suite 200, Philadelphia, PA 19106, Tel (215) 923-8888

ARCHITECT: ARRAY healthcare facilities solutions — 2520 Renaissance Boulevard, Suite 110, King of Prussia, PA 19406, t: 610.270.0599, f: 610.270.0995, www.arrayhfs.com

Project Number	Scale	Drawing Title	Project Title	VA Project Number
3468	AS INDICATED	ELECTRICAL SCHEDULES	Behavioral Health Complex	595-109

Building Number: 34

Approved: Project Director

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn	Drawing Number
07/27/2012	TME	RJD	ES501

Dwg. 121 of 123

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

Switchboard: BLN1

Location: ELECTRICAL BA02 — **Volts:** 120/208 Wye — **A.I.C. Rating:** 22,000
Supply From: TRANSFORMER T-2 (VIA MDP) — **Phases:** 3 — **Mains Type:** MCB
Mounting: Surface — **Wires:** 4 — **Mains Rating:** 450 A
Enclosure: NEMA-1 — **MCB Rating:** 450 A 100% RATED

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	PANEL '1LN1'	3	225 A	150 A	50326 VA	
2	PANEL '1LN2'	3	225 A	225 A	53980 VA	
3	PANEL '1LNE1'	3	225 A	60 A	14866 VA	
4	PANEL '2LN1'	3	225 A	150 A	30515 VA	
5	LIGHTING INVERTER 'INV' (1LNE2)	1	100 A	60 A	4451 VA	
6	FAN COIL UNIT - MECH ROOM	2	100 A	20 A	1000 VA	
7	FAN COIL UNIT - MECH ROOM	2	100 A	20 A	1000 VA	
8	ACCU AND SSAHU - BSMT AND FIRST FLOOR	2	100 A	20 A	2750 VA	
9	Receptacle PUMP ROOM/ MECH ROOM BA01	1	100 A	20 A	1080 VA	
10	LIGHTING CONTORL PANEL - BASEMENT	1	100 A	20 A	500 VA	
11	EXHAUST FAN 34-EF-2 - BASEMENET	1	100 A	20 A	864 VA	
12	DOMESTIC WATER HEATER BURNER	1	100 A	20 A	150 VA	
13	Receptacle PUMP ROOM/ MECH ROOM BA01	1	100 A	20 A	900 VA	
14	DOMESTIC WATER HEATER CIRC PUMP CP-1	1	100 A	20 A	720 VA	
15	SPARE	1	100 A	20 A		
16	SPARE	1	100 A	20 A		
17	SPARE	1	100 A	20 A		
18	SPACE	3	100 A	---		
19	SPACE	1	100 A	---		
20	SPACE	1	100 A	---		
				Total Conn. Load:	163102 VA	
				Total Amps:	453 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Fluorescent Lighting	1258 VA	100.00%	1258 VA		
Lighting	853 VA	100.00%	853 VA	Total Conn. Load:	163102 VA
Motor	20645 VA	40.00%	8258 VA	Total Est. Demand:	97875 VA
Other	31480 VA	100.00%	31480 VA	Total Conn.:	453 A
Power	15926 VA	60.00%	9556 VA	Total Est. Demand:	272 A
Receptacle	92940 VA	50.00%	46470 VA		

Notes:

Branch Panel: 1HN1

Location: ELECTRICAL ROOM 1A11 — **Volts:** 480/277 Wye — **A.I.C. Rating:** 14,000
Supply From: MDP — **Phases:** 3 — **Mains Type:** MCB
Mounting: Surface — **Wires:** 4 — **Mains Rating:** 60 A
Enclosure: Type 1 — **MCB Rating:** 60 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LIGHTING	20 A	1	1857	1296					1	20 A	LIGHTING	2
3	LIGHTING	20 A	1			2758	607 VA			1	20 A	CORRIDOR LIGHTING	4
5	LIGHITNG	20 A	1					927 VA	1318	1	20 A	LIGHTING UPPER ATTRIUM	6
7	Spare	20 A	1	0 VA	208 VA					1	20 A	CANOPY LIGHTING	8
9	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	10
11	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
			Total Load:	3361 VA		3365 VA		2245 VA					
			Total Amps:	13 A		13 A		8 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	2286 VA	100.00%	2286 VA		
Other	6685 VA	100.00%	6685 VA	Total Conn. Load:	8971 VA
				Total Est. Demand:	8971 VA
				Total Conn.:	11 A
				Total Est. Demand:	11 A

Notes:

Branch Panel: 1LN1

Location: ELECTRICAL ROOM 1A11 — **Volts:** 120/208 Wye — **A.I.C. Rating:** 22,000
Supply From: BLN1 — **Phases:** 3 — **Mains Type:** MCB
Mounting: Surface — **Wires:** 4 — **Mains Rating:** 150 A
Enclosure: Type 1 — **MCB Rating:** 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Dishwasher TRAINING KITCHEN 1A41	20 A	1	150 VA	360 VA					1	20 A	Receptacle TRAINING KITCHEN 1A41	2
3	WATER FOUNTAIN RECEPTACLE	20 A	1			180 VA	500 VA			1	20 A	CABINET UNIT HEATER	4
5	Dishwasher TRAINING KITCHEN 1A41	20 A	1					150 VA	360 VA	1	20 A	Receptacle TRAINING KITCHEN 1A41	6
7	Other CART STORAGE 1A02A	20 A	1	720 VA	900 VA					1	20 A	Receptacle LARGE CLASSROOM 1A37	8
9	CABINET UNIT HEATER	20 A	1			500 VA	1080			1	20 A	Receptacle MED ROOM 1A39	10
11	KITCHEN HOODS	20 A	1					1500	1500	1	20 A	KITCHEN HOODS	12
13	Receptacle LARGE CLASSROOM 1A04	20 A	1	1080	1260					1	20 A	Receptacle LARGE CLASSROOM 1A37	14
15	JUNCTION BOX FOR VVB	20 A	1			1200	728 VA			2	20 A	AIR CURTAIN - 34-AC-1 - COMMONS AREA	16
17	Smart Board LARGE CLASSROOM 1A31	20 A	1					180 VA	728 VA	--	--	--	18
19	Refrigerator TRAINING KITCHEN 1A41	20 A	1	180 VA	180 VA					1	20 A	Receptacle TRAINING KITCHEN 1A41	20
21	FAN COIL UNIT - STORAGE 1A04A	20 A	2			500 VA	180 VA			1	20 A	Refrigerator TRAINING KITCHEN 1A41	22
23	--	--	--					500 VA	180 VA	1	20 A	Receptacle Upper Atrium 701-1	24
25	Receptacle TRAINING KITCHEN 1A41	20 A	1	180 VA	180 VA					1	20 A	Receptacle	26
27	Receptacle TRAINING KITCHEN 1A41	20 A	1			180 VA	180 VA			1	20 A	Receptacle TRAINING KITCHEN 1A41	28
29	Receptacle TRAINING KITCHEN 1A41	20 A	1					180 VA	180 VA	1	20 A	Receptacle TRAINING KITCHEN 1A41	30
31	Dishwasher TRAINING KITCHEN 1A41	20 A	1	150 VA	360 VA					1	20 A	Receptacle TRAINING KITCHEN 1A41	32
33	Receptacle ELEVATOR-2 1A15-2	20 A	1			180 VA	150 VA			1	20 A	Dishwasher TRAINING KITCHEN 1A41	34
35	DISHWASHER TRAINING KITCHEN 1A41	20 A	1					150 VA	360 VA	1	20 A	Smart Board LARGE CLASSROOM 1A37	36
37	Receptacle TRAINING KITCHEN 1A41	20 A	1	360 VA	0 VA					1	20 A	Spare	38
39	Receptacle TRAINING KITCHEN 1A41	20 A	1			360 VA	360 VA			1	20 A	Receptacle TRAINING KITCHEN 1A41	40
41	Receptacle TRAINING KITCHEN 1A41	20 A	1					360 VA	500 VA	1	20 A	TV SYSTEM POWER SUPPLY - I.T. 1A23	42
43	CABINET UNIT HEATER - STAIR 1A05	20 A	1	500 VA	540 VA					1	20 A	Receptacle STORAGE 1A38	44
45	SOUND SYSTEM PANEL - I.T. 1A23	20 A	1			500 VA	500 VA			1	20 A	LTG CONTROL PANEL - ELEC RM 1A11	46
47	NURSE CALL CONTROL PANEL - I.T. 1A23	20 A	1					500 VA	540 VA	1	20 A	Receptacle Upper Atrium 701-1	48
49	Receptacle CORRIDOR-1 1A21-1	20 A	1	540 VA	720 VA					1	20 A	Receptacle OFFICE/CONSULT 1A33	50
51	Receptacle Upper Atrium 701-1	20 A	1			540 VA	540 VA			1	20 A	Receptacle CORRIDOR-2 1A28-2	52
53	Receptacle PANTRY STORAGE 724	20 A	1					540 VA	720 VA	1	20 A	Receptacle WOMEN'S TOILET 1A17	54
55	Receptacle LARGE CLASSROOM 1A31	20 A	1	720 VA	720 VA					1	20 A	Receptacle LARGE CLASSROOM 1A31	56
57	Receptacle Room 1A00, 1A21-2	20 A	1			540 VA	720 VA			1	20 A	Receptacle MEN'S TOILET 1A24	58
59	Receptacle OFFICE/ CONSULT 1A35	20 A	1					720 VA	720 VA	1	20 A	Receptacle LARGE CLASSROOM 1A31	60
61	Receptacle ELEVATOR LOBBY-1 1A14-1	20 A	1	720 VA	720 VA					1	20 A	Other CART STORAGE 1A02A	62
63	Receptacle LARGE CLASSROOM 1A31	20 A	1			720 VA	1080			1	20 A	Receptacle LARGE CLASSROOM 1A04	64
65	Receptacle LARGE CLASSROOM 1A31	20 A	1					720 VA	720 VA	1	20 A	Receptacle CORRIDOR-2 1A21-2	66
67	Other CART STORAGE 1A02A	20 A	1	720 VA	900 VA					1	20 A	Receptacle OFFICE/ CONSULT 1A13	68
69	Receptacle CORRIDOR-1 1A21-1	20 A	1			720 VA	720 VA			1	20 A	Other CART STORAGE 1A02A	70
71	Other CART STORAGE 1A02A	20 A	1					720 VA	900 VA	1	20 A	Receptacle OPEN COMPUTER AREA 1A02	72
73	Receptacle OFFICE/ CONSULT 1A16	20 A	1	1080	1200					1	20 A	JUNCTION BOX FOR VVB	74
75	Receptacle OFFICE/ CONSULT 1A16	20 A	1			900 VA	1080			1	20 A	Receptacle OFFICE/CONSULT 648	76
77	SCHEDULE BOARDS	20 A	1					1080	1200	1	20 A	JUNCTION BOX FOR VVB	78
79	MULTIOUTLET ASSEMBLY	20 A	1	1080	1080					1	20 A	MULTIOUTLET ASSEMBLY	80
81	JUNCTION BOX FOR VVB	20 A	1			1200	1080			1	20 A	MULTIOUTLET ASSEMBLY	82
83	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	84
			Total Load:	17300 VA		17118 VA		15908 VA					
			Total Amps:	146 A		144 A		133 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	8456 VA	40.00%	3382 VA		
Other	11640 VA	100.00%	11640 VA	Total Conn. Load:	50326 VA
Power	1250 VA	60.00%	750 VA	Total Est. Demand:	30262 VA
Receptacle	28980 VA	50.00%	14490 VA	Total Conn.:	140 A
				Total Est. Demand:	84 A

Notes:

Branch Panel: 1LN2

Location: ELECTRICAL ROOM 1A11 — **Volts:** 120/208 Wye — **A.I.C. Rating:** 22000
Supply From: BLN1 — **Phases:** 3 — **Mains Type:** MCB
Mounting: Surface — **Wires:** 4 — **Mains Rating:** 225 A
Enclosure: NEMA-1 — **MCB Rating:** 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Other OFFICE/ CONSULT 1A32	20 A	1	450 VA	2500					2	50 A	Range TRAINING KITCHEN 1A41	2
3	GARBAGE DISPOSER - TRAINING KITCHEN	20 A	1			1200	2500			--	--	--	4
5	GARBAGE DISPOSER - TRAINING KITCHEN	20 A	1					1200	2500	2	50 A	Range TRAINING KITCHEN 1A41	6
7	Range TRAINING KITCHEN 1A41	50 A	2	2500	2500					--	--	--	8
9	--	--	--			2500	2500			2	50 A	Range TRAINING KITCHEN 1A41	10
11	Range TRAINING KITCHEN 1A41	50 A	2					2500	2500	--	--	--	12
13	--	--	--	2500	360 VA					1	20 A	RECEP - PUBLIC DATA NETWORK - I.T. 1A23	14
15	Range TRAINING KITCHEN 1A41	50 A	2			2500	2500			2	20 A	RECEP PUBLIC DATA NETWORK - IT 1A23	16
17	--	--	--					2500	2500	--	--	--	18
19	CONDENSATE PUMP - FIRST FLOOR	20 A	1	500 VA	500 VA					2	20 A	FAN COIL UNIT - ELEV MACHINE ROOM	20
21	CONDENSATE PUMP - FIRST FLOOR	20 A	1			500 VA	500 VA			--	--	--	22
23	CAFE COOLER RECEPTACLE	20 A	2					1200	600 VA	1	20 A	CAFE UC FRIDGE RECEPTACLE	24
25	--	--	--	1200	1056					1	20 A	CAFE FOOD PREP TABLE RECEP	26
27	CAFE TURBO OVEN RECEPTACLE	30 A	2			2500	864 VA			1	20 A	CAFE FRIDGE RECEPTACLE	28
29	--	--	--					2500	1800	1	20 A	CAFE CASH REGISTER RECEPTACLE	30
31	CAFE COFFEE MAKER	30 A	2	500 VA	1050					1	20 A	CAFE PENDANT LIGHTING	32
33	--	--	--			500 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
43	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	44
45	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	46
47	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	48
49	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	50
51	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	52
53	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	54
55	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	56
57	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	58
59	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	60
61	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	62
63	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	64
65	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	66
67	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	68
69	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	70
71	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	72
73	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	74
75	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	76
77	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	78
79	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	80
81	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	82
83	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	84
			Total Load:	15616 VA		18564 VA		19800 VA					
			Total Amps:	130 A		158 A		169 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	4200 VA	40.00%	1680 VA		
Other	450 VA	100.00%	450 VA	Total Conn. Load:	53980 VA
Power	2250 VA	60.00%	1350 VA	Total Est. Demand:	27020 VA
Receptacle	47080 VA	50.00%	23540 VA	Total Conn.:	150 A
				Total Est. Demand:	75 A

Notes:

Branch Panel: 1LNE1

Location: ELECTRICAL ROOM 1A11 — **Volts:** 120/208 Wye — **A.I.C. Rating:** 22,000
Supply From: BLN1 (VIA 'UPS) — **Phases:** 3 — **Mains Type:** MCB
Mounting: Surface — **Wires:** 4 — **Mains Rating:** 80 A
Enclosure: Type 1 — **MCB Rating:** 80 A

Notes: MAIN BREAKER IN PANEL SHALL BE COMPLETE WITH L,S,I ELECTRONIC TRIP

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	FIRE ALARM CONTROL PANEL - I.T. 1A23	20 A	1	156 VA	500 VA					1	20 A	AREA OF RESCUE PANEL - I.T. 1A23	2
3	RECEP VA DATA NETWORK - IT BA03	20 A	1			180 VA	400 VA			1	20 A	SECURE DOORS - FIRST FLOOR	4
5	SPRINKLER SYSTEM ALARM BELL	20 A	1					250 VA	500 VA	1	20 A	AUTOMATIC DOOR OPENERS	6
7	Receptacle ELECTRICAL BA02	20 A	1	720 VA	2500					2	20 A	RECEP VA DATA NETWORK - IT BA03	8
9	SECURE DOORS - SECOND FLOOR	20 A	1			800 VA	2500			--	--	--	10
11	Receptacle I.T. 1A23	20 A	1					540 VA	540 VA	1	20 A	Receptacle IT BA03	12
13	FIRE ALARM ANNUNCIATOR PANEL	20 A	1	500 VA	1200					1	20 A	SECURE DOORS - FIRST FLOOR	14
15	AUTOMATIC DOOR OPENERS	20 A	1			500 VA	500 VA			1	20 A	SECURITY SYSTEM CONTROL PANEL - I.T.	16
17	Receptacle ELECTRICAL ROOM 1A11	20 A	1					900 VA	1200	1	20 A	BASEMENT SUMP PUMP	18
19	CONNECTION TO LTG INVERTER	20 A	1	300 VA	0 VA					1	20 A	Spare	20
21	CRASH CART RECEPTACLE - RM 1A02B	20 A	1			180 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	0 A	1	0 VA	0 VA					1	0 A	Spare	32
33	Spare	0 A	1			0 VA	0 VA			1	0 A	Spare	34
35	Spare	0 A	1					0 VA	0 VA	1	0 A	Spare	36
37	Spare	0 A	1	0 VA	0 VA					1	0 A	Spare	38
39	Spare	0 A	1			0 VA	0 VA			1	0 A	Spare	40
41	Spare	0 A	1					0 VA	0 VA	1	0 A	Spare	42
			Total Load:	5876 VA		5060 VA		3930 VA					
			Total Amps:	50 A		44 A		33 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	2200 VA	40.00%	880 VA		
Other	0 VA	0.00%	0 VA	Total Conn. Load:	14866 VA
Power	4606 VA	60.00%	2764 VA	Total Est. Demand:	7674 VA
Receptacle	8060 VA	50.00%	4030 VA	Total Conn.:	41 A
				Total Est. Demand:	21 A

Notes:

Branch Panel: 2HN1

Location: MECH 2A01A — **Volts:** 480/277 Wye — **A.I.C. Rating:** 14,000
Supply From: MDP — **Phases:** 3 — **Mains Type:** MCB
Mounting: Surface — **Wires:** 4 — **Mains Rating:** 150 A
Enclosure: Type 1 — **MCB Rating:** 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	AIR HANDLING UNIT AHU-1	70 A	3	9411	960 VA					1	20 A	LTG Room OPEN OFFICE SPACE	2
3	--	--	--			9411	1139			1	20 A	LTG OPEN OFFICE SPACE	4
5	--	--	--					9411	536 VA	1	20 A	LIGHITNG	6
7	LIGHTING OPEN OFFICE	20 A	1	912 VA	720 VA					1	20 A	LIGHTING OFFICE 22 2A08W	8
9	CORRIDOR LIGHTING	20 A	1			453 VA	582 VA			3	15 A	EXHAUST FAN 34-EF-1 MECH RM 2A01A	10
11	RETURN FAN 34-RF-2	60 A	3					7475	582 VA	--	--	--	12
13	--	--	--	7475	582 VA					--	--	--	14
15	--	--	--			7475	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
			Total Load:	20060 VA		19060 VA		18004 VA					
			Total Amps:	73 A		69 A		65 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	420 VA	100.00%	420 VA		
Motor	52403 VA	40.00%	20961 VA	Total Conn. Load:	57123 VA
Other	3980 VA	100.00%	3980 VA	Total Est. Demand:	25681 VA
Fluorescent Lighting	320 VA	100.00%	320 VA	Total Conn.:	69 A
				Total Est. Demand:	31 A

Notes:

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer: Dewberry — 600 Parsippany Road, Suite 301, Parsippany, NJ 07054-3715, Tel (973) 576-9683, Fax (973) 739-9710

Structural Engineer: WZG — 180 W. Ridge Pike, Limerick, PA 19468, Tel (214) 329-5559

MEP Engineer: H.E. LENZ COMPANY — 1407 Scalp Avenue, Johnstown, PA 15904, Tel (814) 269-9300, Fax (814) 269-9301

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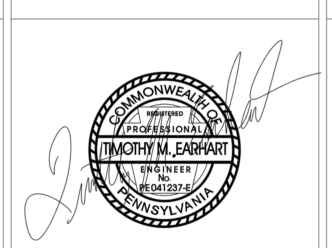
Cost Estimator: International Consultants, Inc. — 221 Chestnut Street, Suite 200, Philadelphia, PA 19106, Tel (215) 923-8888



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Project Number	3468
Scale	AS INDICATED
Drawing Title	ELECTRICAL SCHEDULES
Approved: Project Director	
Project Title	Behavioral Health Complex
Location	1700 South Lincoln Ave. Lebanon, PA 17042
Date	07/27/2012
Checked	TME
Drawn	RJD
VA Project Number	595-109
Building Number	34
Drawing Number	ES502
Dwg.	122 of 123

Office of Facilities Management

Department of Veterans Affairs

Branch Panel: 2LN1

Location: MECH 2A01A
Supply From: BLN1
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Power LARGE OFFICE 12 2A08D	20 A	1	500 VA	180 VA					1	20 A	Receptacle STAFF LOUNGE 2A07	2
3	Receptacle STAFF LOUNGE 2A07	20 A	1			180 VA	180 VA			1	20 A	Receptacle STAFF LOUNGE 2A07	4
5	Receptacle OPEN OFFICE W/ SLIDING DOORS	20 A	1					180 VA	900 VA	1	20 A	Receptacle ELEVATOR LOBBY 2A00	6
7	Receptacle CONFERENCE ROOM 2A09	20 A	1	1080	720 VA					1	20 A	Receptacle MECH 2A01	8
9	Receptacle OFFICE 23 2A08V	20 A	1			720 VA	180 VA			1	20 A	Receptacle OPEN OFFICE W/ SLIDING DOORS	10
11	Power OFFICE 2 2A08Q	20 A	1					500 VA	500 VA	1	20 A	Power OFFICE 2 2A08Q	12
13	Power OFFICE 2 2A08Q	20 A	1	500 VA	1600					1	20 A	CELING FANS - UPPER ATRIUM 701-1	14
15	Receptacle STAFF LOUNGE 2A07	20 A	1			180 VA	180 VA			1	20 A	Receptacle STAFF LOUNGE 2A07	16
17	JUNCTION BOX FOR VVB	20 A	1					1200	1200	1	20 A	JUNCTION BOX FOR VVB	18
19	JUNCTION BOX FOR VVB	20 A	1	1200	1200					1	20 A	JUNCTION BOX FOR VVB	20
21	Receptacle STAFF LOUNGE 2A07	20 A	1			1080	500 VA			1	20 A	Power LARGE OFFICE 20 2A08T	22
23	Power LARGE OFFICE 20 2A08T	20 A	1					500 VA	500 VA	1	20 A	Power LARGE OFFICE 20 2A08T	24
25	Power OFFICE 17 2A08N	20 A	1	500 VA	500 VA					1	20 A	Power OFFICE 17 2A08N	26
27	Power OFFICE 17 2A08N	20 A	1			500 VA	1200			1	20 A	JUNCTION BOX FOR VVB	28
29	Power LARGE OFFICE 14 2A08H	20 A	1					500 VA	500 VA	1	20 A	Power LARGE OFFICE 14 2A08H	30
31	Power LARGE OFFICE 12 2A08D	20 A	1	500 VA	500 VA					1	20 A	Power LARGE OFFICE 12 2A08D	32
33	Power OFFICE 6 2A08I	20 A	1			500 VA	500 VA			1	20 A	Power OFFICE 6 2A08I	34
35	Power OFFICE 6 2A08I	20 A	1					500 VA	500 VA	1	20 A	Power OFFICE 9 2A08C	36
37	Power OFFICE 9 2A08C	20 A	1	500 VA	500 VA					1	20 A	Power OFFICE 9 2A08C	38
39	Power OFFICE 22 2A08W	20 A	1			500 VA	500 VA			1	20 A	CABINET UNIT HEATER - SECOND FLOOR	40
41	Receptacle STAIR 2A30	20 A	1					540 VA	500 VA	1	20 A	Power MECH 2A01A	42
43	Power MECH 2A01A	20 A	1	500 VA	500 VA					1	20 A	Power MECH 2A01A	44
45	Power MECH 2A01A	20 A	1			500 VA	500 VA			1	20 A	Power MECH 2A01A	46
47	Power MECH 2A01A	20 A	1					500 VA	500 VA	1	20 A	Power MECH 2A01A	48
49	Motor	20 A	1	875 VA	540 VA					1	20 A	Receptacle OPEN OFFICE W/ SLIDING DOORS	50
51	PHOTOCELL	20 A	1			200 VA	500 VA			1	20 A	Power LARGE OFFICE 14 2A08H	52
53	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	54
55	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	56
57	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	58
59	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	60
61	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	62
63	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	64
65	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	66
67	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	68
69	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	70
71	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	72
73	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	74
75	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	76
77	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	78
79	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	80
81	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	82
83	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	84
			Total Load:	12395 VA		8600 VA		9520 VA					
			Total Amps:	104 A		72 A		81 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	200 VA	100.00%	200 VA		
Motor	1375 VA	40.00%	550 VA	**Total Conn. Load:**	30515 VA
Other	17000 VA	100.00%	17000 VA	**Total Est. Demand:**	24230 VA
Power	5100 VA	60.00%	3060 VA	**Total Conn.:**	85 A
Receptacle	6840 VA	50.00%	3420 VA	**Total Est. Demand:**	67 A

Notes:

Data Device Schedule

Mark	Level	Outlet Layout	Type
B001	Basement	2 DATA, 2 VOICE	VA Network
B002	Basement	1 VOICE	VA Network
B003	Basement	1 VOICE	VA Network
B004	Basement	1 VOICE	VA Network
B005	Basement	2 DATA, 2 VOICE	VA Network
B006	Basement	2 DATA, 2 VOICE	VA Network
B007	Basement	2 DATA	VA Network
B008	Basement	2 DATA	VA Network
B009	Basement	2 DATA	VA Network
B010	Basement	2 DATA	VA Network
B011	Basement	2 DATA	VA Network
B012	Basement	2 DATA	VA Network
B013	Basement	2 DATA	VA Network
B014	Basement	2 DATA	VA Network
1001	Level 1	2 DATA	Public Network
1002	Level 1	2 DATA	Public Network
1003	Level 1	2 DATA	Public Network
1004	Level 1	2 DATA	Public Network
1005	Level 1	2 DATA	Public Network
1006	Level 1	2 DATA	Public Network
1007	Level 1	2 DATA, 2 VOICE	VA Network
1008	Level 1	2 DATA, 2 VOICE	VA Network
1009	Level 1	2 DATA, 2 VOICE	VA Network
1010	Level 1	2 DATA, 2 VOICE	VA Network
1011	Level 1	2 DATA, 2 VOICE	VA Network
1012	Level 1	1 VOICE	VA Network
1013	Level 1	1 VOICE	VA Network
1014	Level 1	2 DATA, 2 VOICE	VA Network
1015	Level 1	2 DATA, 2 VOICE	VA Network
1016	Level 1	2 DATA, 2 VOICE	VA Network
1017	Level 1	2 DATA, 2 VOICE	VA Network
1018	Level 1	2 DATA, 2 VOICE	VA Network
1019	Level 1	2 DATA, 2 VOICE	VA Network
1020	Level 1	2 DATA, 2 VOICE	VA Network
1021	Level 1	2 DATA, 2 VOICE	VA Network
1022	Level 1	2 DATA, 2 VOICE	VA Network
1023	Level 1	2 DATA, 2 VOICE	VA Network
1024	Level 1	2 DATA, 2 VOICE	VA Network
1025	Level 1	2 DATA, 2 VOICE	VA Network
1026	Level 1	2 DATA, 2 VOICE	VA Network
1027	Level 1	2 DATA	Public Network
1028	Level 1	2 DATA	Public Network
1029	Level 1	2 DATA	Public Network
1030	Level 1	2 DATA	Public Network
1031	Level 1	2 DATA	Public Network
1032	Level 1	2 DATA	Public Network
1033	Level 1	2 DATA, 2 VOICE	VA Network
1034	Level 1	2 DATA, 2 VOICE	Public Network
1035	Level 1	2 DATA, 2 VOICE	Public Network
1036	Level 1	2 DATA	Public Network
1037	Level 1	2 DATA	Public Network
1038	Level 1	2 DATA	Public Network
1039	Level 1	2 DATA	Public Network
1040	Level 1	2 DATA	Public Network
1041	Level 1	2 DATA, 2 VOICE	VA Network
1042	Level 1	2 DATA	Public Network
1043	Level 1	2 DATA	Public Network
1044	Level 1	2 DATA	Public Network
1045	Level 1	2 DATA	Public Network
1046	Level 1	2 DATA	Public Network
1047	Level 1	2 DATA	Public Network
1048	Level 1	2 DATA	Public Network
1049	Level 1	2 DATA	Public Network
1050	Level 1	1 DATA	Public Network
1051	Level 1	1 DATA	VA Network
1052	Level 1	1 DATA	Public Network
1053	Level 1	1 DATA	VA Network
1054	Level 1	1 DATA	Public Network
1055	Level 1	1 DATA	VA Network
1056	Level 1	1 DATA	Public Network
1057	Level 1	1 DATA	VA Network
1058	Level 1	1 DATA	Public Network
1059	Level 1	1 DATA	VA Network
1060	Level 1	2 DATA	Public Network
1061	Level 1	2 DATA	Public Network
1062	Level 1	4 DATA, 4 VOICE	VA Network
1063	Level 1	4 DATA, 4 VOICE	VA Network
1064	Level 1	2 DATA	Public Network
1065	Level 1	2 DATA	Public Network
1066	Level 1	2 DATA	Public Network
1067	Level 1	2 DATA	VA Network
1068	Level 1	2 DATA	VA Network
1069	Level 1	2 DATA	VA Network
1070	Level 1	2 DATA	VA Network
1071	Level 1	2 DATA	VA Network
1072	Level 1	2 DATA	VA Network
1073	Level 1	2 DATA	VA Network
1074	Level 1	2 DATA	VA Network
1075	Level 1	2 DATA	VA Network
1076	Level 1	2 DATA, 2 VOICE	VA Network
1077	Level 1	2 DATA, 2 VOICE	VA Network
1078	Level 1	2 DATA, 2 VOICE	VA Network
2001	Level 2	2 DATA, 2 VOICE	VA Network
2002	Level 2	1 VOICE	VA Network
2003	Level 2	2 DATA, 2 VOICE	VA Network
2004	Level 2	2 DATA, 2 VOICE	VA Network
2005	Level 2	2 DATA, 2 VOICE	VA Network
2006	Level 2	2 DATA, 2 VOICE	VA Network
2007	Level 2	2 DATA, 2 VOICE	VA Network
2008	Level 2	2 DATA, 2 VOICE	VA Network
2009	Level 2	2 DATA, 2 VOICE	VA Network
2010	Level 2	2 DATA, 2 VOICE	VA Network
2011	Level 2	12 DATA, 12 VOICE	VA Network
2012	Level 2	2 DATA, 2 VOICE	VA Network
2013	Level 2	12 DATA, 12 VOICE	VA Network
2014	Level 2	12 DATA, 12 VOICE	VA Network
2015	Level 2	12 DATA, 12 VOICE	VA Network
2016	Level 2	12 DATA, 12 VOICE	VA Network
2017	Level 2	2 DATA, 2 VOICE	VA Network
2018	Level 2	12 DATA, 12 VOICE	VA Network
2019	Level 2	12 DATA, 12 VOICE	VA Network
2020	Level 2	12 DATA, 12 VOICE	VA Network
2021	Level 2	1 DATA	Public Network
2022	Level 2	1 DATA	Public Network
2023	Level 2	1 DATA	Public Network
2024	Level 2	1 DATA	Public Network
2025	Level 2	1 DATA	Public Network
2026	Level 2	1 DATA	Public Network
2027	Level 2	1 DATA	Public Network
2028	Level 2	1 DATA	Public Network
2029	Level 2	1 VOICE	VA Network
2030	Level 2	2 DATA	VA Network
2031	Level 2	1 DATA	Public Network
2032	Level 2	1 DATA	VA Network

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

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Project Number	Scale
3468	AS INDICATED

Drawing Title: ELECTRCIAL SCHEDULES

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date: 07/27/2012 | Checked: TME | Drawn: RJD

VA Project Number: 595-109

Building Number: 34

Drawing Number: ES503

Dwg. 123 of 123

Office of Facilities Management

Department of Veterans Affairs

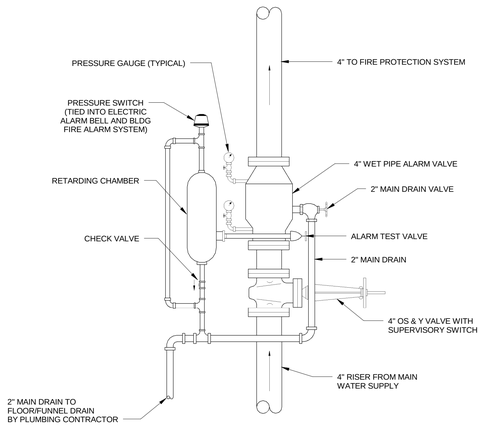
VA FORM 08-6231, OCT 1978

SPRINKLER DESIGN CHART

	MECHANICAL AND ELECTRICAL AREAS	STORAGE AREAS	ALL OTHER AREAS
OCCUPANCY CLASSIFICATION:	ORDINARY GROUP 1	ORDINARY GROUP 2	LIGHT
TYPE OF SPRINKLER SYSTEM:	WET PIPE	WET PIPE	WET PIPE
DESIGN AREA OF WATER APPLICATION:	1500 SQ FT	1500 SQ FT	1500 SQ FT
MINIMUM DENSITY:	.15 GPM/SQ FT	.20 GPM/SQ FT	.10 GPM/SQ FT
MAXIMUM AREA PER SPRINKLER:	130 SQ FT	130 SQ FT	225 SQ FT
MINIMUM SPRINKLER TEMPERATURE RATING:	200°F (288°F NEAR HEATING EQUIPMENT)	155°F	155°F
SPRINKLER "K" FACTOR:	K=5.5	K=5.5	K=5.5
SPRINKLER TYPE:	QUICK RESPONSE RECESSED PENDENT OR UPRIGHT WITH CAGE GUARD AS INDICATED	QUICK RESPONSE RECESSED PENDENT OR UPRIGHT WITH CAGE GUARD AS INDICATED	QUICK RESPONSE RECESSED PENDENT, CONCEALED PENDENT (COMMONS AREA AND OFFICE/CONSULT ROOMS) OR UPRIGHT WITH CAGE GUARD AS INDICATED

FOOTNOTES:

1. FIRE SPRINKLER WATER DEMAND INDICATED ABOVE PENDING INSURANCE UNDERWRITER AND AUTHORITY HAVING JURISDICTION APPROVAL.
2. REFER TO SPECIFICATIONS FOR REQUIREMENTS OF MATERIALS, COLOR, FINISHES, INSTALLATION, APPROVED EQUAL MANUFACTURERS, ETC.



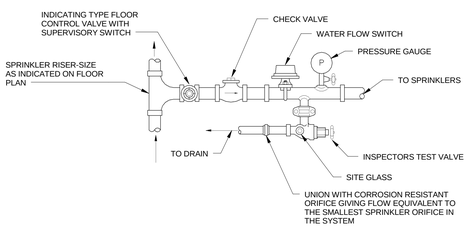
1 ALARM CHECK VALVE ASSEMBLY SCHEMATIC
NOT TO SCALE

NOTES:
1. PROPOSED ROUTING IS TO INDICATE THAT ALL SPRINKLER PIPING IS TO BE CONCEALED.
2. COORDINATE EXACT ROUTING OF SPRINKLER PIPING WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
3. CONTRACTOR IS RESPONSIBLE FOR FINAL PIPE ROUTING COORDINATION AND HYDRAULICALLY SIZING OF ALL SPRINKLER PIPING.

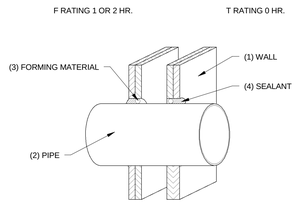
5 PROPOSED SPRINKLER PIPING ROUTING TO COMMONS AREA CEILING (WEST EXPOSURE - TYPICAL FOR BOTH DORMERS)
SCALE: 1/4" = 1'-0"

WATER TEST INFORMATION

TEST HYDRANT :	TEST #1, HYDRANT 'B'
STATIC PRESSURE:	68 PSI
RESIDUAL PRESSURE:	60 PSI
FLOW RATE:	995 GPM
SOURCE OF INFORMATION:	SITE HYDRANT TESTING
DATE RECEIVED:	DECEMBER 10, 2011



2 SPRINKLER ZONE CONTROL ASSEMBLY (SHOWN FROM RISER)
NOT TO SCALE



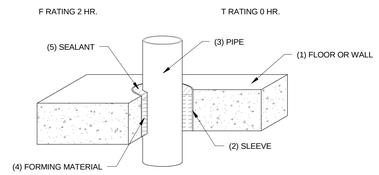
TESTED IN ACCORDANCE WITH:
ASTM E-814
ANSI/UL 1479

UL SYSTEM W-L-1334

1. WALL ASSEMBLY - CONSTRUCTED IN THE MANNER SPECIFIED IN THE U300 OR U400 SERIES DESIGNS AS SHOWN IN THE UL FIRE RESISTANCE DIRECTORY. MAX. DIAMETER OF OPENING IS 26-3/8" (670MM) FOR STEEL STUD WALLS AND 14-1/2" (368MM) FOR WOOD STUD WALLS.
2. METALLIC PIPE OR CONDUIT - THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
   A. STEEL PIPE - NOM 24" (610MM) DIAMETER (OR SMALLER) SCH. 10 (OR HEAVIER) STEEL PIPE.
   B. IRON PIPE - NOM 24" (610) DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE.
   C. CONDUIT - NOM 4" (102MM) DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR NOM 6" (152MM) DIAMETER (OR SMALLER) STEEL CONDUIT.
   D. COPPER TUBING OR PIPE - NOM 6" (152MM) DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING OR REGULAR (OR HEAVIER) COPPER PIPE.

   THE ANNULAR SPACE BETWEEN PIPES, TUBING OR CONDUITS AND PERIPHERY OF OPENING SHALL BE MIN. 0" (POINT OF CONTACT) TO MAX. 2" (51MM).
3. FORMING MATERIAL - USED TO PREVENT THE LEAKAGE OF SEALANT DURING INSTALLATION IN 2 HR. FIRE-RATED ASSEMBLIES. INSTALL BACKER ROD INTO THE OPENING AND RECESS 5/8" (16MM) FROM BOTH SURFACES OF THE WALL.
4. NELSON LBS3 SEALANT - APPLY WITHIN THE ANNULAR SPACE AROUND THE THROUGH PENETRANT TO A MIN. 5/8" (16MM) DEPTH, FLUSH WITH BOTH SURFACES OF THE WALL. AT AREAS OF POINT OF CONTACT, APPLY A 3/8" (10MM) BEAD AT THE INTERFACE BETWEEN THE THROUGH PENETRANT AND BOTH SURFACES OF THE WALL. AN ADDITIONAL 1/4" (6MM) CROWN OF SEALANT SHALL BE APPLIED AROUND THE ENTIRE CIRCUMFERENCE OF THE PENETRANT AT BOTH WALL SURFACES.

3 GYPSUM WALL METALLIC PIPE OR CONDUIT
NOT TO SCALE



TESTED IN ACCORDANCE WITH:
ASTM E-814
ANSI/UL 1479

UL SYSTEM C-AJ-1191

1. FLOOR OR WALL ASSEMBLY - MIN. 4-1/2" (114MM) THICK LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR 5" (127MM) THICK WALL OR CMU BLOCK WALL. FLOOR MAY ALSO BE CONSTRUCTED OF MIN. 6" (152MM) THICK HOLLOW-CORE PRECAST CONCRETE UNITS.
2. METALLIC SLEEVE - MAX. NOMINAL 6" (152MM) DIAMETER (OR SMALLER) SCH. 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO THE FLOOR OR WALL, FLUSH WITH BOTH SURFACES. MAX. ANNULAR SPACE WITHIN THE SLEEVE IS 15/16" (24MM).
3. METALLIC PIPE OR CONDUIT - THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
   A. STEEL PIPE - NOM 4" (102MM) DIAMETER (OR SMALLER) SCH.10 (OR HEAVIER) STEEL PIPE.
   B. IRON PIPE - NOM 4" (102MM) DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE.
   C. THE MAX. ANNULAR SPACE IS 1/4" (6MM).
4. FORMING MATERIAL - TIGHTLY PACK MIN. 4PCF (64 KG/CUBIC METER) MINERAL WOOL OR CERAMIC FIBER INTO THE ANNULAR SPACE TO A MIN. 4" (102MM) DEPTH, RECESS FIBER 1/2" (13MM) FROM TOP SURFACE OF FLOOR OR FROM BOTH WALL OR HOLLOW-CORE FLOOR SURFACES.
5. NELSON CLK SEALANT - APPLY OVER FORMING MATERIAL, WITHIN THE ANNULAR SPACE TO A MIN. 1/2" (13MM) DEPTH, FLUSH WITH THE TOP SURFACE OF THE FLOOR OR WITH BOTH SURFACES OF THE WALL OR HOLLOW-CORE FLOOR.

4 CONCRETE FLOOR OR WALL METALLIC PIPE OR CONDUIT
NOT TO SCALE

GENERAL FIRE PROTECTION NOTES:

1. SPRINKLER HEAD LOCATIONS ARE INDICATED ON THE DRAWING FOR BID PURPOSES ONLY. SPRINKLER PIPE SIZES AND LOCATIONS SHALL CONFORM TO NFPA REQUIREMENTS. PIPING SHALL BE HYDRAULICALLY CALCULATED AND SIZED. THE SPRINKLER SYSTEM AND SPRINKLER HEAD LOCATION SHALL BE DESIGNED AND INSTALLED AS SPECIFIED. (REFER TO SPECIFICATIONS)
2. ALL SPRINKLER HEADS SHALL BE PLACED IN THE CENTER OF ALL CEILING TILES WHERE ACOUSTICAL CEILING TILES ARE UTILIZED.
3. SPRINKLER CONTRACTOR SHALL COORDINATE SPRINKLER HEAD INSTALLATION WITH LIGHTING AND DIFFUSER LOCATIONS.
4. ALL DIMENSIONS AND CONDITIONS SHALL BE CHECKED AND VERIFIED BY CONTRACTOR AT THE SITE.
5. ALL FIRE SPRINKLER PIPING SHALL BE CONCEALED ABOVE CEILING OR IN WALLS.
6. THE CONTRACTOR SHALL PROVIDE AND INSTALL APPROVED PIPE SLEEVES AND FIRE STOPPING AT ALL FLOOR/CEILING SLAB AND WALL PENETRATIONS TO MAINTAIN THE TIME-RATED CONSTRUCTION SPECIFIED.
7. COORDINATE LOCATIONS OF ALL FIRE PROTECTION PIPING AND EQUIPMENT WITH OTHER CONTRACTORS.
8. FOR COMPLETE ROOM NAMES AND NUMBERS, SEE ARCHITECTURAL DRAWINGS.

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

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MEP Engineer: H.E. LENZ COMPANY — 1407 Scalp Avenue, Johnstown, PA 15904, Tel (814) 269-9300, Fax (814) 269-9301

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Project Number	Scale
3468	AS INDICATED

Drawing Title: FIRE PROTECTION NOTES AND DETAILS

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	TME	JAM

VA Project Number: 595-109

Building Number: 34

Drawing Number: FP001

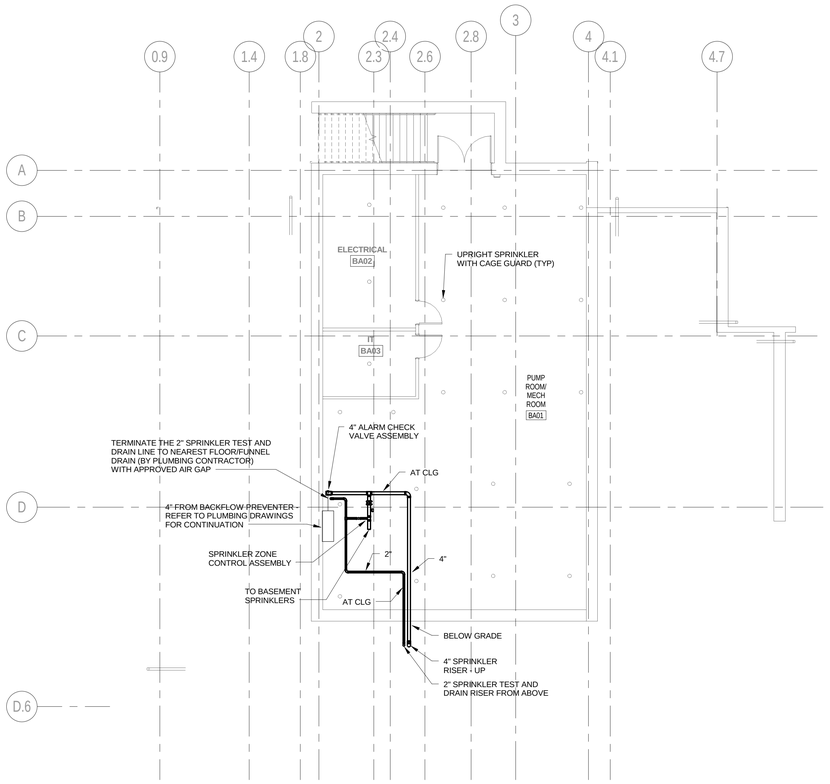
Dwg. 97 of 123

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

NOTE: THE BUILDING SHALL BE FULLY PROTECTED WITH AUTOMATIC FIRE SPRINKLERS IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS.



1 FIRE PROTECTION BASEMENT FLOOR PLAN
SCALE: 1/8" = 1'-0"

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

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Project Number	Scale
3468	1/8" = 1'-0"

Drawing Title: FIRE PROTECTION BASEMENT FLOOR PLAN

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date: 07/27/2012 | Checked: TME | Drawn: JAM

VA Project Number: 595-109

Building Number: 34

Drawing Number: FP101

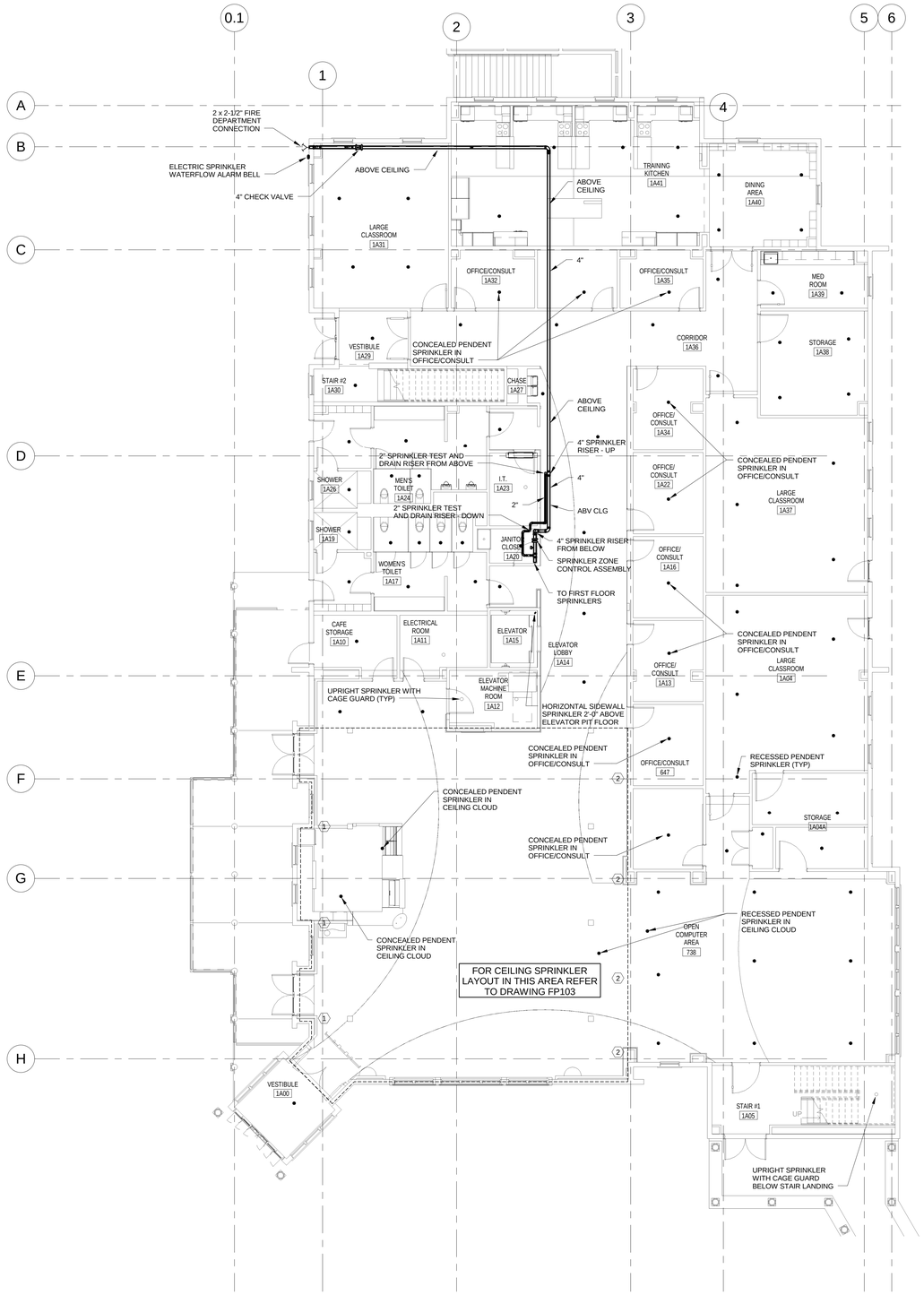
Dwg. 98 of 123

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

NOTE: THE BUILDING SHALL BE FULLY PROTECTED WITH AUTOMATIC FIRE SPRINKLERS IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS.



1 FIRE PROTECTION FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

NOTES ELSEWHERE ON THIS DRAWING:

1. SPRINKLER PIPING FOR THE COMMONS AREA CEILING SHALL BE ROUTED CONCEALED IN THE PROVIDED BULKHEAD ENCLOSURE HORIZONTALLY AND THE PROVIDED BOX ENCLOSURES VERTICALLY TO THE ATRIUM CEILING. REFER TO DETAIL 13/MH5.02 FOR BULKHEAD PIPING LAYOUT.
2. SPRINKLER PIPING FOR THE COMMONS AREA CEILING SHALL BE ROUTED CONCEALED IN THE WALL CAVITY VERTICALLY TO THE ATRIUM CEILING. REFER TO DRAWING 5/FP001 FOR PROPOSED SPRINKLER PIPE ROUTING.

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

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Project Number	Scale
3468	1/8" = 1'-0"

Drawing Title: FIRE PROTECTION FIRST FLOOR PLAN

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	TME	JAM

VA Project Number: 595-109

Building Number: 34

Drawing Number: FP102

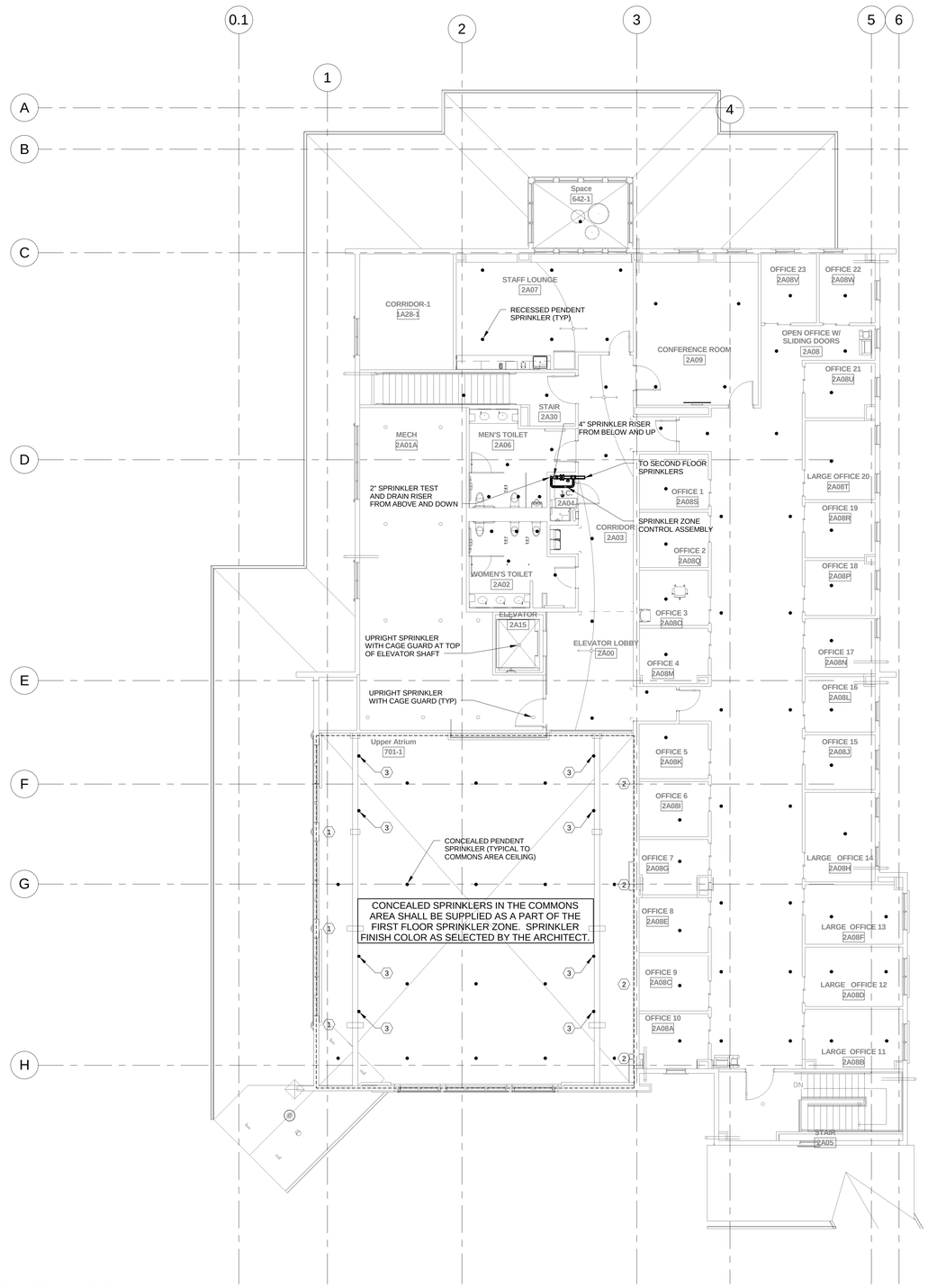
Dwg. 99 of 123

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

NOTE: THE BUILDING SHALL BE FULLY PROTECTED WITH AUTOMATIC FIRE SPRINKLERS IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS.



1 FIRE PROTECTION SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

NOTES ELSEWHERE ON THIS DRAWING:

1. SPRINKLER PIPING FOR THE COMMONS AREA CEILING SHALL BE ROUTED CONCEALED IN THE PROVIDED BULKHEAD ENCLOSURE HORIZONTALLY AND THE PROVIDED BOX ENCLOSURES VERTICALLY TO THE ATRIUM CEILING. REFER TO DETAIL 13/MHS.02 FOR BULKHEAD PIPING LAYOUT.
2. SPRINKLER PIPING FOR THE COMMONS AREA CEILING SHALL BE ROUTED CONCEALED IN THE WALL CAVITY VERTICALLY TO THE ATRIUM CEILING.
3. CONCEALED PENDENT SPRINKLER IN DORMER CEILING SLOPE.

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

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Project Number	Scale
3468	1/8" = 1'-0"

Drawing Title: FIRE PROTECTION SECOND FLOOR PLAN

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	TME	JAM

VA Project Number: 595-109

Building Number: 34

Drawing Number: FP103

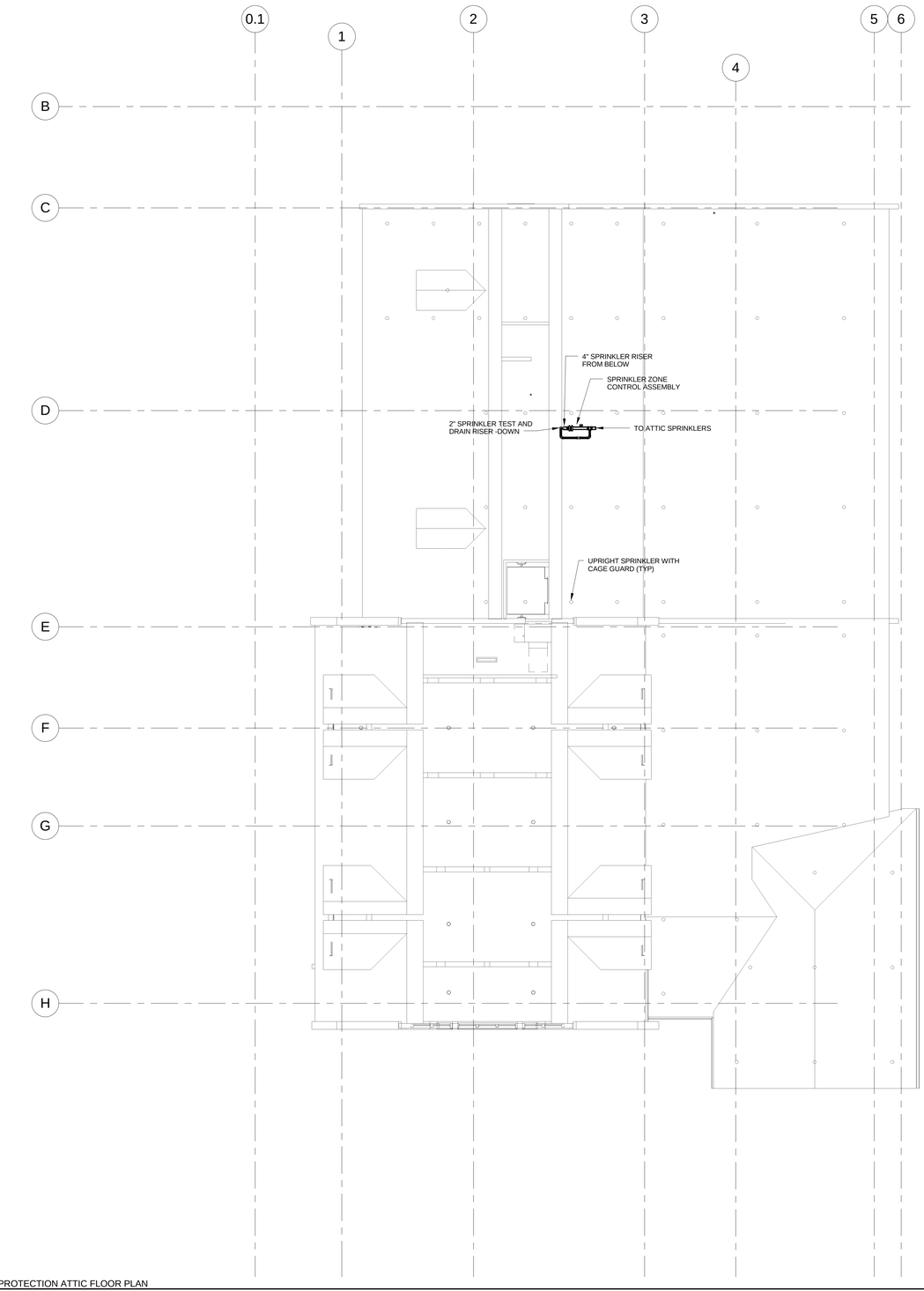
Dwg. 100 of 123

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

NOTE: THE BUILDING SHALL BE FULLY PROTECTED WITH AUTOMATIC FIRE SPRINKLERS IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS.



1 FIRE PROTECTION ATTIC FLOOR PLAN
SCALE: 1/8" = 1'-0"

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

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Project Number	Scale
3468	1/8" = 1'-0"

Drawing Title: FIRE PROTECTION ATTIC FLOOR PLAN

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	TME	JAM

VA Project Number: 595-109

Building Number: 34

Drawing Number: FP104

Dwg. 101 of 123

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978