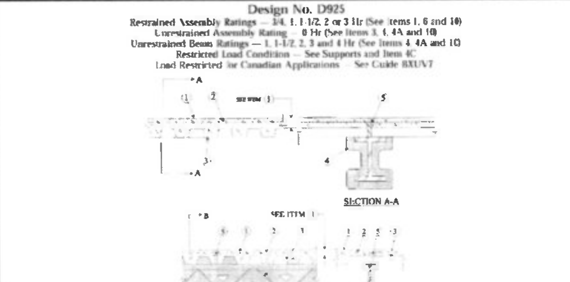
UL DETAIL D925

Design No. D925

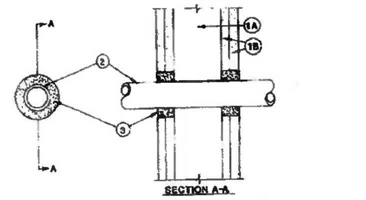
Restrained Assembly Ratings — 3/4, 1, 1-1/2, 2 or 3 Hr (See Items 1, 6 and 10)
Unrestrained Assembly Rating — 0 Hr (See Items 3, 4, 4A and 10)
Unrestrained Beam Ratings — 1, 1-1/2, 2, 3 and 4 Hr (See Items 4, 4A and 10)
Restricted Load Condition — See Supports and Item 4C
Load Restricted for Canadian Applications — See Guide BXUV7



NOTE: DETAILS PROVIDED FOR REFERENCE — REFER TO UL MANUALS FOR FULL DETAIL DESCRIPTIONS.

UL DETAIL W-L-2038

System No. W-L-2038
(Formerly System No. 614)
F Rating — 1 and 2 Hr (See Item 1)
T Rating — 1 and 2 Hr (See Item 1)



1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
   B. Gypsum Board* — 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series design in the UL Fire Resistance Directory. Max diameter of opening is 4-3/8 in.
   The hourly F and T ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants — One nonmetallic pipe, conduit or tubing to be centered within the firestop system. The max diam of the through penetrant and annular space within the firestop system is dependent upon the type of fill material (Item 3). Pipe, conduit or tubing to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes, conduits or tubing may be used:
   A. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) piping systems.
   B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 2 in. diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) piping systems.
   C. Rigid Nonmetallic Conduit+ — Nom 2 in. diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70).
   D. Electrical Nonmetallic Tubing (ENT)+ — Nom 1 in. diam (or smaller) PVC tubing installed in accordance with Article 331 of the National Electrical Code (NFPA No. 70).
3. Fill, Void or Cavity Material* — Sealant — In 2 hr fire rated assemblies, min 1 1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. In 1 hr fire rated assemblies, min 5/8 in. thickness of fill material applied within the annulus, on both surfaces of wall. Additional fill material to be installed such that a min 5/8 in. thick crown is formed around the penetrating item and lapping a min 1 in. beyond the periphery of the opening.
   The max diam of the through penetrant and annular space within the firestop system is dependent upon the type of fill material as tabulated below.

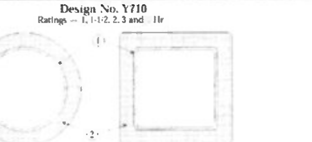
Max Diam of Through Penetrant In.	Nom Annular Space In.	Fill Mtl Type
1	1/2	FSP 1100 Putty
2	1	FS 1900 Sealant

W R GRACE & CO - CONN
CONSTRUCTION PRODUCTS DIV — FSP 1100 Putty or FS 1900 Sealant

+Bearing the UL Listing Mark
*Bearing the UL Classification Marking

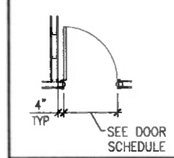
UL DETAIL Y710

Design No. Y710
Ratings — 1, 1-1/2, 2, 3 and 4 Hr



TYPICAL DETAILS

DOOR LOCATIONS

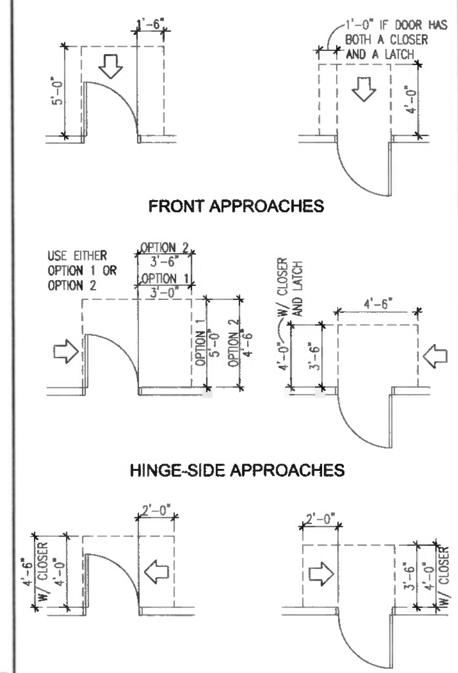


ALL WORK SHALL COMPLY WITH FEDERAL ABA, LOCAL, AND STATE ACCESSIBILITY CODES AND REQUIREMENTS.

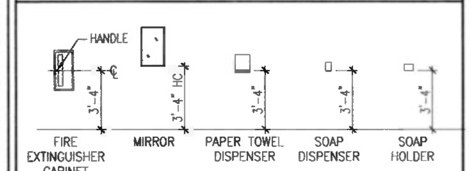
ACCESSIBILITY REQUIREMENTS

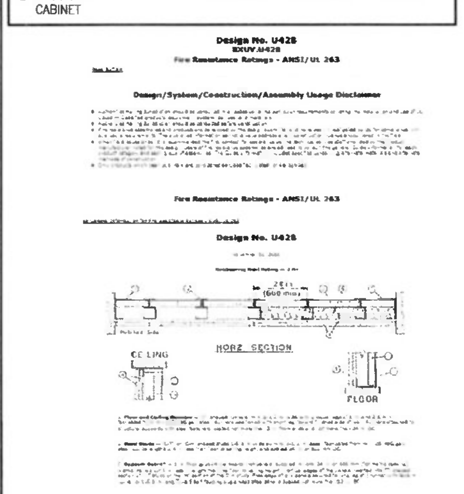
PROVIDE ACCESSIBILITY PER VA/UFAS BARRIER FREE DESIGN GUIDE (PG 18-13).

ALL DOOR ASSEMBLIES SHALL BE CONSTRUCTED TO MEET THE INDICATED MINIMUM CLEARANCES AS APPLICABLE.



TYPICAL MOUNTING HEIGHTS





ARCHITECTURAL ABBREVIATIONS

AC	AIR CONDITIONING
ACT	ACOUSTICAL CEILING TILE
AFF	ABOVE FINISH FLOOR
ALUM	ALUMINUM
BATT	BATT INSULATION
BO	BOTTOM OF
CBB	CEMENTITIOUS BACKER BOARD
CCW	CEMENTITIOUS CRYSTALLINE WATERPROOFING
CFMF	COLD-FORMED METAL FRAMING
CG	CORNER GUARD
℄	CENTERLINE
CMT	CERAMIC MOSAIC TILE
CMU	CONCRETE MASONRY UNIT
CO	CASED OPENING
COMM	COMMUNICATION
CONC	CONCRETE
CONC-S	CONCRETE WITH SEALER
CONT	CONTINUOUS
COR	CONTRACTING OFFICER'S REPRESENTATIVE
COTR	CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CP	CARPET TILE
DIA	DIAMETER
EDF	ELECTRIC DRINKING FOUNTAIN
ELEC	ELECTRICAL
EQ	EQUAL
ES	EXPOSED STRUCTURE
ETC	ET CETERA
EXIST	EXISTING
EXP	EXPOSED
FAC FIN	FACTORY FINISH
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FF	FINISHED FLOOR
FIN	FINISH
FLR	FLOOR
FO	FACE OF
FV	FIELD VERIFY (PRIOR TO ORDERING OR CUTTING)
FWC	FABRIC WALLCOVERING
GA	GAGE
GRA	GRANITE
GYP BD/GWB	GYPSUM (WALL) BOARD
HC	HANDICAPPED
HM	HOLLOW METAL
HPDL	HIGH-PRESSURE DECORATIVE LAMINATE
HVAC	HEATING VENTILATION AND AIR-CONDITIONING
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MO	MASONRY OPENING
MTL	METAL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OH	OPPOSITE HAND
PB	PORCELAIN BASE
PLS	PLASTER
PLAM	PLASTIC LAMINATE
PT	PORCELAIN TILE
PR	PAIR
P	PAINT
QT	QUARRY TILE
RB	RESILIENT BASE
REF	REFRIGERATOR
REQ'D	REQUIRED
RES	RESINOUS FLOORING
RES-W	RESINOUS EPOXY WALL - CEILING
RO	ROUGH OPENING
RF	RUBBER FLOORING
RPH	RECESSED PAPER HOLDER
SC	SEALED HIGH BUILD GLAZED COATING (SPECIAL WATING)
SD	SOAP DISPENSER
SCW	SOLID CORE WOOD
SIM	SIMILAR
SND	SANITARY NAPKIN DISPENSER
SP	SPECIAL FACED
SS	STAINLESS STEEL/SOLID SURFACE
ST	STEEL
SUBS	SUBSTRATE
SV	SHEET VINYL
SVT	SOLID VINYL TILE
TB	TACK BOARD
TELE	TELEPHONE
TO	TOP OF
TP	TOILET PAPER
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITION TILE
VWC	VINYL WALL COVERING
WC	WALL COVERING
WR	WATER RESISTANT
WD	WOOD
WSF	WELDED SEAM SHEET FLOORING (HEAT WELDED WITH ROD)

REFERENCE SYMBOLS

ROOM NAME 123	ROOM NAME AND NUMBER
(123)	DOOR NUMBER
◇1	DEMOLITION NOTE
(1)	KEY NOTE
⬡1	WINDOW TYPE
GA4	PARTITION TYPE

ARCHITECTURAL GENERAL NOTES

A. DIMENSIONS, UNLESS OTHERWISE INDICATED, ARE TO:
   FACE OF EXISTING WALL SURFACE
   FACE OF WALL STUDS
   TOP OF SLAB
   ALIGN WALLS WITH EXISTING WHERE NOT OTHERWISE INDICATED.
   ACCESSIBILITY DIMENSIONS ARE FROM FINISH FLOOR AND WALL TO ITEMS AS SHOWN.

B. COORDINATE WITH ELECTRICAL, HVAC, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL REQUIREMENTS. COORDINATE DUCT, CONDUIT, AND PIPE OPENINGS IN WALLS. COORDINATE DUCT, CONDUIT, AND PIPE ROUTING ABOVE CEILINGS. WHERE HOLES IN EXISTING WALLS ARE CREATED FOR CONDUIT, DUCT, OR PIPE PENETRATIONS, COORDINATE SIZE AND LOCATION OF SUCH WORK WITH INSTALLERS OF SUCH CONDUIT, PIPE, DUCT, AND EQUIPMENT. PATCH HOLES CAUSED BY THE REMOVAL OF EQUIPMENT, PIPING, CONDUIT, DUCT, GRILLS, ETC. WITH MATERIALS MATCHING EXISTING WALL IN STRUCTURE, MATERIAL, THICKNESS, ALIGNMENT, GRADES, AND QUALITY.

C. COORDINATE AND PROVIDE SOLID FIRE RETARDANT TREATED WOOD BLOCKING OR STEEL STUD REINFORCEMENT FOR WALL HOOKS, BRACKETS, GRAB BARS, COMPUTER MONITORS, TELEVISION WALL BRACKETS, HANDRAILS, GUARDRAILS, WOOD MOLDINGS, DISPLAYS, ACCESSORIES ETC., BETWEEN STUDS. COORDINATE LOCATIONS WITH COR FOR GOVERNMENT FURNISHED EQUIPMENT.

D. 'PROVIDE' IS DEFINED AS PROVIDING MATERIALS, DELIVERY, STORAGE, HANDLING, INSTALLATION, ADJUSTMENT, AND CLEANING FOR THE ITEM INDICATED.

E. SEAL PIPE PENETRATIONS THROUGH SLABS, MASONRY, SMOKE RATED PARTITIONS AND FIRE-RATED PARTITIONS WITH THE APPROPRIATE FIRESTOP TO MAINTAIN THE RATING OF THE WALL OR SLAB. SUBMIT CUT SHEETS AND SPECIFICATIONS TO THE COR FOR APPROVAL PRIOR TO INSTALLATION. PROVIDE UL LISTED ASSEMBLIES. SEE SHEET G001. DO NOT ADD FIRE SEALANT IN EXISTING PENETRATIONS.. REMOVE AND REPLACE

F. GENERAL CONTRACTOR SHALL COORDINATE CONTRACTOR DUMPSTER LOCATION WITH GOVERNMENT. COR SHALL IDENTIFY DUMPSTER LOCATION PRIOR TO BIDDING.

G. SKIM COAT ALL DAMAGED EXISTING WALL SURFACES THAT REQUIRE PAINTING.

H. COORDINATE DEMOLITION AND RENOVATION AMONG DISCIPLINES.

I. CONTRACTOR TO REMOVE, STORE AND REINSTALL ALL FURNISHINGS IN AREAS OF WORK INSIDE THE BUILDING. (Revision 1)

J. COMPLETELY REMOVE ALL MATERIALS AS INDICATED ON THE DRAWINGS AND AS REQUIRED FOR CONSTRUCTION. EDGES AND FACES OF REMAINING SURFACES SHALL BE REPAIRED TO ACCEPT NEAT INSTALLATION OF CONSTRUCTION OR FINISHES. WHERE EXISTING MATERIALS ARE TO BE REPLACED (WALLS, INSULATION, FLOORING, ETC.) EXISTING MATERIALS, ADHESIVES, ETC. SHALL BE REMOVED AND EXPOSED SURFACES SHALL BE PREPARED AS RECOMMENDED BY MANUFACTURER PRIOR TO INSTALLATION OF MATERIALS.

K. PREVENT DAMAGE TO MATERIALS AND FINISHES TO REMAIN (PAINT, BASE, CEILINGS, CHAIR RAILS, ETC.). REPAIR DAMAGES FROM CONSTRUCTION ACTIVITIES TO EXISTING ITEMS TO REMAIN, AT NO ADDITIONAL COST TO THE GOVERNMENT. WHERE SUCH EXPOSED MATERIALS OR FINISHES TO REMAIN ARE DAMAGED OR LEFT WITH HOLES BY CONSTRUCTION ACTIVITIES, REPAIR, REPLACE, OR INFILL SUCH MATERIALS AND FINISHES TO MATCH EXISTING IN MATERIAL, SIZE, ALIGNMENT, FINISH, COLOR, TEXTURE, AND QUALITY. EXTEND FINISHES TO LOGICAL EDGES (CHANGE OF MATERIAL OR CORNERS). ALL SHALL BE REPLACED OR REPAIRED TO MATCH OR EXCEED THE QUALITY THAT EXISTED BEFORE DAMAGE.

REFERENCE SYMBOLS

(1/A401)	DETAIL CALLOUT — DETAIL NUMBER — SHEET WHERE DETAIL IS DRAWN
(1/A301)	SECTION CALLOUT — DETAIL NUMBER — SHEET WHERE DETAIL IS DRAWN
10'-6"	VERTICAL ELEVATION
(A)	COLUMN CENTERLINE DESIGNATION
- - -	MATCHLINE
(1/A201)	EXTERIOR ELEVATION CALLOUT — DETAIL NUMBER — SHEET WHERE DETAIL IS DRAWN
1, 2, 3, 4 / A401	INTERIOR ELEVATION CALLOUT — SHEET WHERE DETAIL IS DRAWN — DETAIL NUMBER

GENERAL PROJECT NOTES

A. THE CONTRACTOR SHALL BE PREPARED TO STOP ANY WORK AND CLEAR UP THE WORK AREA IF SO ASKED IN MEDICAL SITUATIONS REQUIRING SUCH ACTION.

B. THE CONTRACTOR SHALL NOT ORDER OR INSTALL ANY MATERIALS OR EQUIPMENT UNTIL SUBMITTALS FOR SUCH HAVE BEEN REVIEWED FOR CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS.

C. ALL TOOLS AND MATERIALS USED IN THIS PROJECT SHALL BE PROPERLY SECURED AT ALL TIMES BY THE CONTRACTOR TO REDUCE POSSIBILITY OF ANY OF THESE TOOLS BEING A HAZARD TO PATIENTS, VISITORS, OR EMPLOYEES.

D. THE CONTRACTOR WILL BE RESPONSIBLE FOR ACQUIRING I.D. BADGES FOR EACH MEMBER OF HIS WORK FORCE. VALID FORMS OF I.D. ARE REQUIRED TO RECEIVE BADGES. COORDINATE WITH COR.

E. THE CONTRACTOR, AT HIS EXPENSE, WILL BE RESPONSIBLE FOR TRAINING EACH MEMBER OF HIS WORK FORCE ON VA POLICIES FOR ON-SITE WORK BEFORE ANY MEMBER WILL BE ALLOWED TO PERFORM WORK ON VA PREMISES.

F. ABSOLUTELY NO VA TOOLS, MATERIALS, OR EQUIPMENT WILL BE LOANED OR GIVEN BY THE VA TO ANY MEMBER OF THE CONTRACTOR'S WORK FORCE AT ANY TIME.

G. ANY SMOKE DETECTORS HAVING ANY POTENTIAL FOR EXPOSURE TO CONSTRUCTION SMOKE, DUST, AND DEBRIS SHALL BE SUITABLY PROTECTED TO PREVENT ACCIDENTAL ALARM. ALL SUCH ACTION MUST BE FIRST COORDINATED AND CLEARED WITH COR AND THE VA SAFETY OFFICER. ALL FIRE ALARM DEVICES SHALL BE ACTIVE WHENEVER CONTRACTOR'S FORCES ARE NOT PRESENT IN WORK AREA.

H. CONTRACTOR SHALL COORDINATE ONLY WITH THE COR AND CONTRACTING OFFICER.

I. SEE SPECIFICATION SECTION 01 00 00 FOR INTERIM LIFE SAFETY MEASURES.

J. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH THE WORK. EXISTING CONDITIONS ARE BASED ON GOVERNMENT FURNISHED EXISTING DRAWINGS AND LIMITED FIELD INVESTIGATION. NOTIFY COR OF ANY DISCREPANCIES.

K. ALL FINISH COLORS TO BE SELECTED BY COR WHERE NOT OTHERWISE INDICATED.

L. PROVIDE MINIMUM (1) 16" x 16" ACCESS PANELS IN HARD CEILINGS WHERE DUCTS AND DAMPERS OR OTHER PIPES REQUIRE ACCESS. COORDINATE EXACT LOCATION W/COR.

M. OPEN EXISTING DRYWALL AS NECESSARY TO INSTALL DUCTS, PLUMBING AND ELECTRICAL DEVICES. RECONSTRUCT WALL AND FINISH TO MATCH EXISTING. ADD ACCESS PANELS WHERE INDICATED. THIS INCLUDES WET WALLS AT WATER CLOSETS. SEE PLUMBING DRAWINGS.

N. APPLY SPRAY-ON FIREPROOFING FOR COLUMNS AND BEAMS (NOT REQUIRED ON METAL DECK) IN ACCORDANCE WITH UL ASSEMBLY DESIGN. COLUMN DESIGN PER UL DESIGN Y710-2HR. BEAM DESIGN PER UL DESIGN D925-2HR. ALTERNATE UL OR FM DESIGN ASSEMBLIES-2HR RATED ARE ACCEPTABLE, CONTRACTOR SHALL COORDINATE ANY IMPACT TO FRAMING AT NO ADDITIONAL COST.

O. CONTINUOUS FLUID APPLIED AIR BARRIER REQUIRED ON EXTERIOR SIDE OF SHEATHING FULL HEIGHT.

P. ROOF STRUCTURE OF ADDITION IS DESIGNED AS FUTURE FLOOR SYSTEM. COLUMN AND BEAM SYSTEM IS DESIGNED ACCORDINGLY. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

Q. WHERE DEVICES ARE REMOVED IN EXISTING EXTERIOR PRECAST/TILT-UP WALLS, PROVIDE BLANK COVER PLATES FOR COMPLETE COVER OR INFILL WITH PIGMENTED NON-SHRINK GROUT TO MATCH EXISTING SURFACE. RUB FINISH EXPOSED SURFACE FOR TEXTURE MATCH. COMPLETE CLEAN SURFACES OF PARTIAL EXTERIOR WALLS TO REMAIN INCLUDING THOSE ALONG COLUMN LINES 8.3, 11 & 3.

R. REFINISH ENTIRE SURFACE OF FLOORS, WALLS, AND CEILINGS WHERE PARTIAL DEMOLITION AND RECONSTRUCTION OCCURS.

S. EXISTING CHILLER LINES AND CO-LOCATED CONTROL WIRING TO BE RELOCATED AS WORK OF NEW ADDITION TO BE COMPLETED AND OCCUPIED PRIOR TO FIRST PHASE OF WORK AND PRIOR TO ANY OTHER CONSTRUCTION RENOVATION WORK IN EXISTING E-WING.

T. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ACT AND GRID TO EXTENT NECESSARY TO INSTALL NEW CONDUIT, PIPE AND DUCTWORK IN EXISTING AREAS NOT OTHERWISE RENOVATED. STORE, PROTECT AND REINSTALL AS WORK IS COMPLETED. REPLACE COMPONENTS DAMAGED AS A RESULT OF THE WORK.

U. EXISTING BUILDING HAS BEEN SAMPLED AND TESTED FOR ASBESTOS AND LEAD WITH NO UNACCEPTABLE LEVELS FOUND.

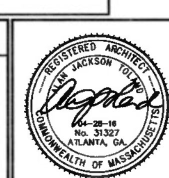
V. PROVIDE HANDRAILS AND CRASHRAILS CONTINUOUSLY EXCEPT AT DOORWAYS IN ALL NEW AND RENOVATED CORRIDORS.

W. FIREPROOFING ASSUMED TO BE 1" MAX. THICKNESS ON COLUMNS. PRECAST PANELS ASSUMED TO BE 6" THICKNESS MAX. CONTRACTOR RESPONSIBLE FOR COORDINATING DIMENSIONAL CHANGES RESULTING FROM ANY ALTERNATE DIMENSIONAL DESIGN.

FINAL SUBMITTAL

Revision	Date
1	11/4/2016

CONSULTANTS:



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Drawing Title: LEGENDS, ABBREVIATIONS AND NOTES
Approved: Project Director

Project Title: CONSOLIDATE MENTAL HEALTH OUTPATIENT CLINIC – PHASE 1
Location: BEDFORD, MA
Date: 04-28-2016 | Checked: AJT | Drawn: DB/SSU

Project Number: 518-14-108
Building Number: 78
Drawing Number: G001
Dwg. 2 of 65

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
Department of Veterans Affairs

VA FORM 08-6231

Drawing File: T:\Projects\1501 Construct Mental Health Clinic Viera\3 1501 Drawings\Construct Mental Health Clinic Viera\Sheets\G001 LEGENDS, ABBREVIATIONS, NOTES AND MOUNTING HEIGHTS.dwg
Plotted by: mcunningham
Plotted Date: Nov 07, 2016 – 6:41am