

ARCHITECTURAL ABBREVIATIONS

A LABEL	CLASS A DOOR
A/C	AIR CONDITION
A/C UNIT	AIR CONDITIONING UNIT
A/E	ARCHITECT/ENGINEER
AAMA	AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION
AB	ANCHOR BOLT
ABC	AGGREGATE BASE COURSE
AC	ASBESTOS CEMENT OR ASPHALTIC CONCRETE
ACI	AMERICAN CONCRETE INSTITUTE
ACS DR	ACCESS DOOR
ACS FLR	ACCESS FLOOR
ACS PNL	ACCESS PANEL
ACST	ACOUSTIC
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
ADC	AUTOMATIC DOOR CLOSER
ADDL	ADDITIONAL
ADDN	ADDITION
ADH	ADHESIVE
ADJ	ADJACENT, ADJOINING, OR ADJUSTABLE
ADMIN	ADMINISTRATION
ADB	AUTOMATIC DOOR BOTTOM
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	ABOVE FINISHED SLAB
AGA	AMERICAN GAS ASSOCIATION
AGC	ASSOCIATED GENERAL CONTRACTORS
AGGR	AGGREGATE
AHJ	AUTHORITY HAVING JURISDICTION
AHR	ANCHOR
AHU	AIR HANDLING UNIT
AIA	AMERICAN INSTITUTE OF ARCHITECTS
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ALT NO	ALTERNATE NUMBER



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ARCHITECTURAL ABBREVIATIONS

ALUM	ALUMINUM
AMP	AMPERE
AMT	AMOUNT
ANOD	ANODIZE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ANT	ANTENNA
APA	AMERICAN PLYWOOD ASSOCIATION
APPD	APPROVED
APPROX	APPROXIMATE
APT	APARTMENT
AR	AS REQUIRED
ARCH	ARCHITECT
ASB	ASBESTOS
ASI	ARCHITECT'S SUPPLEMENTAL INSTRUCTION
ASKLR	AUTOMATIC SPRINKLER
ASPH	ASPHALT
ASSN	ASSOCIATION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ATCH	ATTACHMENT
ATM	AUTOMATIC TELLER MACHINE
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AUDIO VISUAL
AVE	AVENUE
AVG	AVERAGE
AW	ACID WASTE
AWI	ARCHITECTURAL WOODWORKING INSTITUTE
AWPA	AMERICAN WOOD PRESERVERS' ASSOCIATION
AWS	AMERICAN WELDING SOCIETY
AWT	ACOUSTICAL WALL TREATMENT
B LABEL	CLASS B DOOR
B PL	BASE PLATE
BALC	BALCONY
BAT	BATTEN



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ARCHITECTURAL ABBREVIATIONS

BB	BULLETIN BOARD
BD	BOARD
BD FT	BOARD FEET (FOOT)
BEV	BEVEL
BHMA	BUILDER'S HARDWARE MANUFACTURER'S ASSOCIATION
BI FLD DR	BIFOLDING DOORS
BITUM	BITUMINOUS
BKG	BACKING
BLD	BUILD
BLDG	BUILDING
BLKT	BLANKET
BLVD	BOULEVARD
BM	BEAM OR BENCHMARK
BOT	BOTTOM
BR	BEDROOM
BRCG	BRACING
BRDG	BRIDGING
BRDG JST	BRIDGING JOIST
BRG	BEARING
BRG PL	BEARING PLATE
BRKT	BRACKET
BRZ	BRONZE
BSMT	BASEMENT
BTWN	BETWEEN
BU	BUSHEL
BUR	BUILT-UP ROOFING
C	CELSIUS CHANNEL
C	CHANNEL CELSIUS
C CONC	CAST CONCRETE
C LABEL	CLASS C DOOR
C TO C	CENTER TO CENTER
CAB	CABINET
CAC	CEILING ATTENUATION CLASS
CB	CATCH BASIN OR CORNER BEAD
CBB	CEMENTITIOUS (BACKER) BOARD
CC	CUBIC CENTIMETER
CCTV	CLOSED CIRCUIT TELEVISION
CCW	COUNTERCLOCKWISE



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ARCHITECTURAL ABBREVIATIONS

CD	CONSTRUCTION DOCUMENTS OR CONTRACT DOCUMENTS
CEM	CEMENT
CEM PLAS	CEMENT PLASTER
CER	CERAMIC
CF	CONTRACTOR FURNISHED
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED
CFLG	COUNTERFLASHING
CFM	CUBIC FEET PER MINUTE
CFMF	COLD-FORMED METAL FRAMING
CFS	CUBIC FEET PER SECOND
CG	CENTER OF GRAVITY OR CORNER GUARD
CGSFU	CERAMIC GLAZED STRUCTURAL FACING UNITS
CH BD	CHALKBOARD
CHEM	CHEMICAL
CHFR	CHAMFER
CHK	CHECK
CI	CAST IRON
CIP	CAST-IN-PLACE
CIR	CIRCLE
CIRC	CIRCULAR
CJ	CONSTRUCTION JOINT OR CONTROL JOINT
CL	CENTER LINE
CLDG	CLADDING
CLG	CEILING
CLG HT	CEILING HEIGHT
CLR	CLEAR
cm ²	SQUARE CENTIMETER
cm ³	CUBIC CENTIMETER
CM	CONSTRUCTION MANAGEMENT
CMU	CONCRETE MASONRY UNIT
CNR	CORNER
CNTR	COUNTER
CO	CARBON MONOXIDE, CERTIFICATE OF OCCUPANCY, CLEANOUT, OR COMPANY



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ARCHITECTURAL ABBREVIATIONS

CO ₂	CARBON DIOXIDE
COL	COLUMN
COM	COMMON
COMB	COMBINATION, COMBINED
COMM	COMMUNICATION
COMP	COMPONENT
CONC	CONCRETE
CONC FLR	CONCRETE FLOOR
COND	CONDENSER OR CONDITION
CONF	CONFERENCE
CONN	CONNECT
CONSTR	CONSTRUCTION
CONT	CONTINUE
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CPM	CRITICAL PATH METHOD
CPRS	COMPRESSIBLE
CPT	CARPET
CRS	COLD ROLLED STEEL
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CSB	CONCRETE SPLASH BLOCK
CSG	CASING
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE
CSK	COUNTER SUNK
CSMT	CASEMENT
CSWK	CASEWORK
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CTF	CERAMIC TILE FLOOR
CTG	COATING
CTR	CENTER CONTOUR
CTRL	CONTROL
CTV	CABLE TELEVISION
CU	COPPER C
CU FT	CUBIC FEET
CU IN	CUBIC INCH
CU YD	CUBIC YARD
CURT	CURTAIN



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ARCHITECTURAL ABBREVIATIONS

CYL	CYLINDER
CYL L	CYLINDER LOCK
D	DEPTH OR PENNY (NAIL)
D LABEL	CLASS D DOOR
DAT	DATUM
DB	DECIBEL
DBL	DOUBLE
DBL GLZ	DOUBLE GLAZE
DC	DIRECT CURRENT
DEG	DEGREE
DEL	DELETE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL DIAGRAM
DIAG	DIAGRAM DIAGONAL
DIFF	DIFFERENCE OR DIFFUSER
DIM	DIMENSION
DIR	DIRECTION
DISP	DISPENSER
DIST	DISTANCE
DIV	DIVIDE OR DIVISION
DL	DEAD LOAD
DOC	DOCUMENT
DOUG FIR	DOUGLAS FIR
DOZ	DOZEN
DR	DOOR, DRAIN, DRESSING ROOM, OR DRIVE
DR CL	DOOR CLOSER
DR FR	DOOR FRAME
DR OPNG	DOOR OPENING
DS	DOWNSPOUT
DSGN	DESIGN
DW	DISHWASHER
DWG	DRAWING
DWTR	DUMBWAITER



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ARCHITECTURAL ABBREVIATIONS

E	EAST
E LABEL	CLASS E DOOR
EA	EACH
EFF	EFFICIENCY
EFS	EXTERIOR FINISH SYSTEM
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRIC
ELEC DR OP	ELECTRIC DOOR OPENER
ELEV	ELEVATOR
EMER	EMERGENCY
EMER SHR	EMERGENCY SHOWER
ENCL	ENCLOSURE
ENGR	ENGINEER
ENVIR	ENVIRONMENT
EPA	ENVIRONMENTAL PROTECTION AGENCY
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EPO	EMERGENCY POWER OFF
EPS	EXPANDED POLYSTYRENE BOARD (INSULATION)
EQ	EQUAL
EQL SP	EQUALLY SPACED
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ERD	EXISTING ROOF DRAIN
ESC	ESCAPE OR ESCUTCHEON
ESCAL	ESCALATOR
ESMT	EASEMENT
ESP	ESPECIALLY
EST	ESTIMATE
ETC	AND SO FORTH OR ET CETERA
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWS	EYE WASH STATION
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION OR EXPOSED



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ARCHITECTURAL ABBREVIATIONS

EXP BT	EXPANSION BOLT
EXST GR	EXISTING GRADE
EXT	EXTERIOR, EXTERNAL, OR EXTINGUISHER
EXT GR	EXTERIOR GRADE
F	FAHRENHEIT OR FEMALE
FA	FIRE ALARM
FAB	FABRIC
FAC	FACTOR
FACIL	FACILITY
FAS	FASCIA
FAS BD	FASCIA BOARD
FCO	FLOOR CLEANOUT
FCTY	FACTORY
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FACE
FF EL	FINISH FLOOR ELEVATION
FF&E	FURNITURE, FIXTURE, AND EQUIPMENT
FH	FLAT HEAD OR FLAT HEAD SCREWS
FHC	FIRE HOSE CABINET
FHMS	FLAT HEAD MACHINE SCREW
FHP	FULL HEIGHT PARTITION
FHWS	FLAT HEAD WOOD SCREW
FIG	FIGURE
FIL	FILLET
FIN	FINISH
FIN FLR	FINISH FLOOR
FIN GR	FINISH GRADE
FIN WD	FINISH WOOD
FIXT	FIXTURE
FL	FLOORLINE
FLASH	FLASHING
FLDG	FOLDING
FLEX	FLEXIBLE
FLG	FLOORING
FLR	FLOOR



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ARCHITECTURAL ABBREVIATIONS

FLR FIN	FLOOR FINISH
FLR SK	FLOOR SINK
FLUOR	FLUORESCENT
FLUOR FIX	FLUORESCENT FIXTURE
FM	FACTORY MUTUAL
FM-G	FACTORY MUTUAL GLOBAL
FO	FINISHED OPENING
FOC	FACE OF CONCRETE OR FACE OF CURB
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF SLAB OR FACE OF STUD
FOUNT	FOUNTAIN
FOW	FACE OF WALL
FP	FIRE PROTECTION OR FIREPROOF
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FR	FIRE RATING, FIRE RESISTANT, OR FRAME
FR SNK	FLUSHING RIM SINK
FREQ	FREQUENCY
FRMG	FRAMING
FRP	FIBER REINFORCED POLYESTER OR FIBERGLASS REINFORCED PLASTIC
FRZ	FREEZER
FS	FEDERAL SPECIFICATION
FSTNR	FASTENER
FT	FEET OR FOOT
FTG	FOOTING
FURG	FURRING
FURN	FURNISH OR FURNITURE
FUT	FUTURE
FWC	FABRIC WALLCOVERING
GA	GAGE OR GYPSUM ASSOCIATION
GAL	GALLON
GALV	GALVANIC OR GALVANIZED
GALV STL	GALVANIZED STEEL
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GD	GUARD



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ARCHITECTURAL ABBREVIATIONS

GDR	GUARD RAIL
GEN	GENERAL OR GENERATOR
GFRC	GLASS-FIBER-REINFORCED CONCRETE
GFRG	GLASS-FIBER-REINFORCED GYPSUM
GFRP	GLASS-FIBER-REINFORCED PLASTIC
GI	GALVANIZED IRON
GL	GLASS
GL BLK	GLASS BLOCK
GLU LAM	GLUED LAMINATED WOOD
GR FL	GROUND FLOOR
GRAN	GRANITE
GRTG	GRATING
GSB	GYPSUM SHEATHING BOARD
GSM	GALVANIZED SHEET METAL
GSU	GLAZED STRUCTURAL UNIT
GT	GROUT
GUAR	GUARANTEE
GUT	GUTTER
GYP	GYPSUM
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTER
H	HIGH
H PLAM	HIGH PRESSURE PLASTIC LAMINATE
HAZ MAT	HAZARDOUS MATERIALS
HB	HOSE BIBB
HC	HOLLOW CORE
HCWD	HOLLOW CORE WOOD DOOR
HDBD	HARDBOARD
HDNR	HARDENER
HDO	HIGH DENSITY OVERLAY
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HEPA	HIGH EFFICIENCY PARTICULATE AIR (FILTER)
HEX	HEXAGON
HF	HIGH FREQUENCY
HGR	HANGER
HM	HECTOMETER
HM	HOLLOW METAL



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ARCHITECTURAL ABBREVIATIONS

HMD	HOLLOW METAL DOOR
H MDF	HOLLOW METAL DOOR AND FRAME
HMF	HOLLOW METAL FRAME
HNDRL	HANDRAIL
HO	HOLD OPEN
HORIZ	HORIZONTAL
HOSP	HOSPITAL
HP	HIGH PRESSURE OR HORSEPOWER
HQ	HEADQUARTERS
HS	HEAT-STRENGTHENED (GLASS) OR HIGH STRENGTH
HSE	HOUSE
H SKPG	HOUSEKEEPING
HST	HOIST
HT	HEIGHT
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HVY	HEAVY
HW	HOT WATER
HYD	HYDRANT
HYDR	HYDRAULIC
I	INTERSTATE (HIGHWAY) OR MOMENT OF INERTIA
IAQ	INDOOR AIR QUALITY
IBC	INTERNATIONAL BUILDING CODE
ID	IDENTIFICATION, INSIDE DIAMETER, OR INTERIOR DESIGN
ID NO	IDENTIFICATION NUMBER
ILLUM	ILLUMINATION
INCL	INCLUDED
IND	INDEPENDENT OR INDUSTRIAL
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
INTERCOM	INTERCOMMUNICATION
INTL	INTERNATIONAL
IRMA	INVERTED ROOF MEMBRANE ASSEMBLY
IWH	INSTANTANEOUS WATER HEATER



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ARCHITECTURAL ABBREVIATIONS

JAN	JANITOR
J-BOX	JUNCTION BOX
KD	KILN DRIED OR KNOCKED DOWN
KIT	KITCHEN
KO	KNOCKOUT
KPL	KICKPLATE
L	ANGLE
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATE
LAM GL	LAMINATED GLASS
LAU	LAUNDRY
LAV	LAVATORY
LBR	LUMBER
LBS	POUND
LD BRG	LOAD-BEARING
LDR	LEADER
LED	LIGHT EMITTING DIODE
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LHR	LEFT HAND REVERSE LATENT HEAT RATIO
LIB	LIBRARY
LIN	LINEAR
LINO	LINOLEUM
LIQ	LIQUID
LKR	LOCKER
LKR RM	LOCKER ROOM
LKWASH	LOCKWASHER
LL	LEAD LINED
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LMST	LIMESTONE
LNDSKP	LANDSCAPE
LR	LIVING ROOM
LRG	LARGE
LRV	LOUVERED ROOF VENT
LS	LUMP SUM
LT	LIGHT



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ARCHITECTURAL ABBREVIATIONS

LT GA	LIGHT GAGE
LT WT	LIGHTWEIGHT
LTG	LIGHTING
LTNG	LIGHTNING
LVD	LOUVERED
LVR	LOUVER
LWC	LIGHTWEIGHT CONCRETE
LWIC	LIGHTWEIGHT INSULATING CONCRETE
LYR	LAYER
MACH	MACHINE
MACH RM	MACHINE ROOM
MAINT	MAINTENANCE
MAN	MANUAL
MATL	MATERIAL
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MB	MACHINE BOLT
MCB	METAL CORNER BEAD
MD	DECK
ME	MECHANICAL ENGINEER
MEAS	MEASURE
MECH	MECHANICAL
MECH RM	MECHANICAL ROOM
MED	MEDICAL MEDIUM
MED	MEDIUM MEDICAL
MEK	METHYL ETHYL KETONE
MEL	MELAMINE
MEMB	MEMBRANE
MEMO	MEMORANDUM
MEZZ	MEZZANINE
MF	MILL FINISH
MFD	MANUFACTURED
MFG	MANUFACTURING
MFR	MANUFACTURER
MFR REC	MANUFACTURER'S RECOMMENDATION
MGT	MANAGEMENT
MH	MANHOLE
MIC	MICROPHONE
MID	MIDDLE
MIL STD	MILITARY STANDARD



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ARCHITECTURAL ABBREVIATIONS

MIN	MINIMUM MINUTE
MIN	MINUTE MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
MIT	MITER
MKR	MARKER
ML	METAL LATH
MLDG	MOLDING (MOULDING)
MLWK	MILLWORK
mm	MILLIMETER
MO	MASONRY OPENING OR MOTOR OPERATED
MOD	MODEL, MODIFY OR MODULE
MOD BIT	MODIFIED BITUMEN
MON	MONITOR
MOPR	MOP RACK
MR	MOISTURE RESISTANT
MS	MACHINE SCREW OR MOP SINK
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MULL	MULLION
MW	MICROWAVE
MWP	MEMBRANE WATERPROOFING
N	NORTH
NA	NOT APPLICABLE
NAAMM	NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS
NAT	NATURAL
NATL	NATIONAL
NC	NOISE CRITERIA
NCOMBL	NONCOMBUSTIBLE
NEC	NATIONAL ELECTRICAL CODE
NEG	NEGATIVE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEUT	NEUTRAL
NFC	NATIONAL FIRE CODE



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ARCHITECTURAL ABBREVIATIONS

NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NR	NOISE REDUCTION
NRC	NOISE REDUCTION COEFFICIENT
NRCA	NATIONAL ROOFING CONTRACTORS ASSOCIATION
NRP	NONREMOVABLE
NS	NARROW STILE
NUM	NUMERAL
O/O	OUT TO OUT
O	OXYGEN
OA	OUTSIDE AIR OR OVERALL
OC	ON CENTER
OCC	OCCUPY
OCT	OCTAGON
OD	OUTSIDE DIAMETER OUTSIDE DIMENSION
OD	OUTSIDE DIMENSION OUTSIDE DIAMETER
OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED
OFD	OVERFLOW DRAIN
OFF	OFFICE
OF/OI	OWNER FURNISHED/OWNER INSTALLED
OH	OVERHANG
OH DR	OVERHEAD (COILING) DOOR
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OPR	OPERABLE
OPT	OPTIONAL
OR	OPERATING ROOM OR OUTSIDE RADIUS
ORD	ORDNANCE OR OVERFLOW ROOF DRAIN
ORG	ORGANIC
ORIG	ORIGINAL
ORN	ORNAMENTAL



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ARCHITECTURAL ABBREVIATIONS

OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINSTRATION
OUT	OUTLET
OZ	OUNCE
PAR	PARALLEL OR PARAPET
PARA	PARAGRAPH
PART	PARTIAL
PAT	PATTERN
PB	PUSHBUTTON
PBD	PARTICLEBOARD
PC	PIECE, POLYCARBONATE OR PORTLAND CEMENT
PCA	PORTLAND CEMENT ASSOCIATION
PCC	PRECAST CONCRETE
PCCP	CONCRETE PAVEMENT
PCD	PAPER CUP DISPENSER
PCF	POUNDS PER CUBIC FOOT
PCP	PORTLAND CEMENT PLASTER
PED	PEDESTAL
PEN	PENETRATE
PEND	PENDANT
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PGBD	PEGBOARD
PHAR	PHARMACY
PHOTO	PHOTOGRAPH
PHS	PHILLIPS HEAD SCREW
PKG	PACKAGE
PL	PROPERTY LINE
PL GL	PLATE GLASS
PLAM	PLASTIC LAMINATE
PLAS	PLASTER OR PLASTIC
PLBG	PLUMBING
PLYWD	PLYWOOD
PMTL	PAINTED METAL
PNEU	PNEUMATIC
PNL	PANEL
PO	POST OFFICE PURCHASE ORDER
PO	PURCHASE ORDER POST OFFICE



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ARCHITECTURAL ABBREVIATIONS

POLY	POLYETHYLENE (PLASTIC)
PR	PAIR
PRCST	PRECAST
PREFAB	PREFABRICATE
PREFIN	PREFINISH
PRELIM	PRELIMINARY
PREP	PREPARATION
PRESS	PRESSURE
PREV	PREVIOUS
PRKG	PARKING
PRMLD	PREMOLDED
PROJ	PROJECT
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT, PNEUMATIC TUBE, OR PRESSURE TREATED
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PVC	POLYVINYL CHLORIDE (PLASTIC)
PVG	PAVING
PWR	POWER
QA	QUALITY ASSURANCE
QC	QUALITY CONTROL
QRY	QUARRY
QT	QUARRY TILE
QTB	QUARRY TILE BASE
QTF	QUARRY TILE FLOOR
QTR	QUARTER
QTY	QUANTITY
QUAD	QUADRANT
QUAL	QUALITY
R	RADIUS OR RISER
RA	RETURN AIR
RAD	RADIATOR
RB	RESILIENT BASE OR RUBBER BASE
RB HK	ROBE HOOK
RBM	REINFORCED BRICK MASONRY
RBR	RUBBER



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ARCHITECTURAL ABBREVIATIONS

RCP	REFLECTED CEILING PLAN
RCVR	RECEIVER
RD	ROAD OR ROOF DRAIN
REC	RECESSED
RECD	RECEIVED
RECPT	RECEPTACLE
RECT	RECTANGLE
REF	REFERENCE OR REFRIGERATOR
REFR	REFRACTORY REFRIGERATION
REFR	REFRIGERATION REFRACTORY
REG	REGISTER
REINF	REINFORCE
REP	REPAIR
REPL	REPLACE
REQ	REQUIRE
REQD	REQUIRED
RESIL	RESILIENT
RET	RETURN
REV	REVISION
RF	RADIO FREQUENCY
RFG	ROOFING
RFI	REQUEST FOR INFORMATION
RFP	REQUEST FOR PROPOSAL
RH	RIGHT HAND
RHMS	ROUND HEAD MACHINE SCREW
RHR	RIGHT HAND REVERSE
RHWS	ROUND HEAD WOOD SCREW
RL	ROOF LEADER
RLG	RAILING
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RPM	REVOLUTIONS PER MINUTE
RS	ROUGH SAWN
RT	RIGHT
RV	ROOF VENT
RVS	REVERSE
RWD	REDWOOD
RWL	RAIN WATER LEADER



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DETAIL TITLE / ARCHITECTURAL ABBREVIATIONS

SCALE :NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.: SD000115-18.DWG

ARCHITECTURAL ABBREVIATIONS

SA	SUPPLY AIR
SALV	SALVAGE
SAMP	SAMPLE
SAN	SANITARY
SAT	SUSPENDED ACOUSTICAL TILE
SATC	SUSPENDED ACOUSTICAL TILE CEILING
SB	SPLASH BLOCK
SBS	STYRENE BUTADIEN STYRENE
SBSTR	SUBSTRATE
SC	SHADING COEFFICIENT OR SOLID CORE
SCH	SCHOOL
SCHED	SCHEDULE
SCHEM	SCHEMATIC
SCP	SCUPPER
SCRN	SCREEN
SCT	STRUCTURAL CLAY TILE
SCWD	SOLID CORE WOOD DOOR
SD	SHOP DRAWINGS, SMOKE DETECTOR, OR SOAP DISPENSER;
SDG	SIDING
SECT	SECTION
SEG	SEGMENT
SEL	SELECT
SEP	SEPARATE
SF	SQUARE FOOT (FEET)
SFTWD	SOFTWOOD
SGD	SLIDING GLASS DOOR
SGL	SINGLE
SHR	SHOWER
SHR HD	SHOWER HEAD
SHRD	SHOWER DRAIN
SHT	SHEET
SHT MTL FLASH	SHEET METAL (FLASHING)
SHTHG	SHEATHING
SHV	SHELVING
SIM	SIMILAR
SJ	SCORED JOINT
SJI	STEEL JOIST INSTITUTE
SK	SKETCH
SKLT	SKYLIGHT
SLD WDW	HORIZONTAL SLIDING WINDOW



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Veterans Affairs

DETAIL TITLE / ARCHITECTURAL ABBREVIATIONS

SCALE :NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.: SD000115-19.DWG

ARCHITECTURAL ABBREVIATIONS

SLDG	SLIDING
SLNT	SEALANT
SM	SHEET METAL
SMK	SMOKE
SND	SANITARY NAPKIN DISPENSER
SND INS	SOUND INSULATION
SNDU	SANITARY NAPKIN DISPOSAL UNIT
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SPKR	SPEAKER
SPLY	SUPPLY
SQ	SQUARE
SQ IN	SQUARE INCH
SQ YD	SQUARE YARD
SS	SANITARY SEWER OR SERVICE SINK
SST	STAINLESS STEEL
ST	STAIRS OR STREET
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STIF	STIFFENER
STL JST	STEEL JOIST
STL LNTL	STEEL LINTEL
STL PL	STEEL PLATE
STL RF DK	STEEL ROOF DECK
STL TB	STEEL TUBE
STL TR	STEEL TRUSS
STNLS	STAINLESS
STOR	STORAGE
STR	STRINGERS
STRUCT	STRUCTURAL
STRUCT STL	STRUCTURAL STEEL
SUB	SUBSTITUTE
SURF	SURFACE
SUSP	SUSPEND
SUSP CLG	SUSPENDED CEILING
SV	SHEET VINYL
SW	SWITCH
SWDR	SWING DOOR
SYM	SYMBOL
SYNTH	SYNTHETIC
SYS	SYSTEM



Department of
Veterans Affairs

DETAIL TITLE / ARCHITECTURAL ABBREVIATIONS

SCALE :NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.: SD000115-20.DWG

ARCHITECTURAL ABBREVIATIONS

T	TREAD
T&G	TONGUE AND GROOVE
T&M	TIME AND MATERIALS
TB	THROUGH BOLT OR TOWEL BAR
TCA	TILE COUNCIL OF AMERICA
TCP	TELEPHONE CONTROL PANEL TEMPERATURE TRAFFIC CONTROL PLAN
TD	TOWEL DISPENSER
TECH	TECHNICAL
TEL	TELEPHONE
TEMP	TEMPERATURE OR TEMPORARY
TER	TERRAZZO
THD	THREAD
THERM	THERMAL
THK	THICKNESS
THRES	THRESHOLD
THRU	THROUGH
THRUOUT	THROUGHOUT
TK BD	TACKBOARD
TMPD	TEMPERED
TMPD GL	TEMPERED GLASS
TN	TRUE NORTH
TO	TOP OF _____
TO FDN	TOP OF FOUNDATION
TOB	TOP OF BEAM
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TPH	TOILET PAPER HOLDER
TR	TOWEL RACK
TRANS	TRANSOM
TRANS WD FIN	TRANSPARENT WOOD FINISH
TRTD	TREATED
TS	TENSILE STRENGTH OR TUBE STEEL
TSTAT	THERMOSTAT
TV	TELEVISION
TYP	TYPICAL
U	HEAT TRANSFER COEFFICIENT



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Veterans Affairs

DETAIL TITLE / ARCHITECTURAL ABBREVIATIONS

SCALE :NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.: SD000115-21.DWG

ARCHITECTURAL ABBREVIATIONS

UC	UNDERCUT
UCD	UNDERCUT DOOR
UGND	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
ULT	ULTIMATE
UNFIN	UNFINISH
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UR	URINAL
UTIL	UTILITY
UV	ULTRAVIOLET
V	VOLT
VAC	VACUUM
VAR	VARIES
VCT	VINYL COMPOSITION TILE VITRIFIED CLAY TILE
VEH	VEHICLE
VENT	VENTILATION
VERT	VERTICAL
VEST	VESTIBULE
VFAT	VINYL FACED ACOUSTICAL TILE
VIC	VICINITY
VID	VIDEO
VIF	VERIFY IN FIELD
VNR	VENEER
VOC	VOLATILE ORGANIC COMPOUND
VOL	VOLUME
VOLT	VOLTAGE
VP	VENEER PLASTER
VR	VAPOR RETARDER
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
VWF	VINYL WALL FABRIC
W	WIDE OR WEST
W/	WITH
W/O	WITHOUT
WARR	WARRANTY
WBL	WOOD BLOCKING
WC	WALL COVERING OR WATER CLOSET
WC WL HNG	WATER CLOSET, WALL HUNG



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DETAIL TITLE / ARCHITECTURAL ABBREVIATIONS

SCALE :NONE

DATE ISSUED: DECEMBER 2008

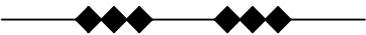
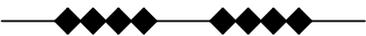
CAD DETAIL NO.: SD000115-22.DWG

ARCHITECTURAL ABBREVIATIONS

WCHR	WATER CHILLER
WCL WL MTD	WATER COOLER, WALL HUNG
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE
WFAB	WALL FABRIC
WFR	WOOD FRAME
WFS	WOOD FURRING STRIPS
WH	WATER HEATER
WHSE	WAREHOUSE
WLD	WELDED
WM	WIRE MESH
WP	WATERPROOFING
WPD	WATER PRESSURE DROP
WPM	WATERPROOF MEMBRANE
WR	WEATHER RESISTANT
WS	WEATHERSTRIP
WSCT	WAINSCOT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
X BRACE	CROSS BRACE
XPS	EXTRUDED POLYSTYRENE BOARD (INSULATION)
YD	YARD
YR	YEAR



ARCHITECTURAL SYMBOLS

	CENTER LINE
	ELEVATION INDICATOR
	CENTER LINE INDICATOR
	CONTRACT LIMIT LINE
	DEMOLITION LINE
	EXISTING TO REMAIN LINE
	FEATURES ABOVE LINE INDICATOR
	FIRE RESISTIVE RATED LINE, 1 HOUR
	FIRE RESISTIVE RATED LINE, 2 HOUR
	FIRE RESISTIVE RATED LINE, 3 HOUR
	FIRE RESISTIVE RATED LINE, 4 HOUR
	FIRE-RATED, SMOKE BARRIER LINE, 1 HOUR
	FIRE-RATED, SMOKE BARRIER LINE, 2 HOUR
	FIRE-RATED, SMOKE BARRIER LINE, 3 HOUR
	FIRE-RATED, SMOKE BARRIER LINE, 4 HOUR
	HIDDEN FEATURES LINE
	NEW LINE
	PROPERTY LINE



Department of
Veterans Affairs

DETAIL TITLE / ARCHITECTURAL SYMBOLS

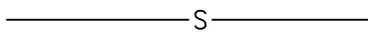
SCALE :NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.:

SD000115-24.DWG

ARCHITECTURAL SYMBOLS



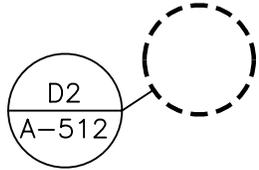
SMOKE BARRIER LINE



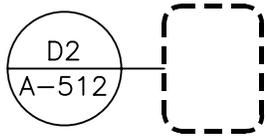
BREAK, ROUND (USER DEFINES SIZE)



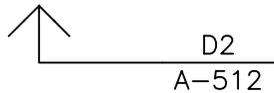
BREAK, STRAIGHT (SEE SECTION INDICATORS, BUILDING, WITH BREAK STANDARDS)



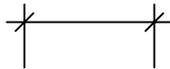
DETAIL INDICATOR



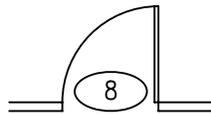
DETAIL INDICATOR



DETAIL INDICATOR FOR SMALL CONDITIONS



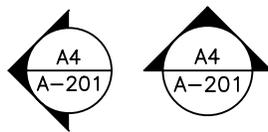
DIMENSION LINE



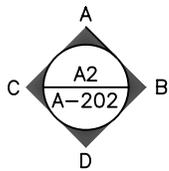
DOOR OPENING/BORROWED LIGHT IDENTIFIER



DRAWING BLOCK TITLE, TYPICAL



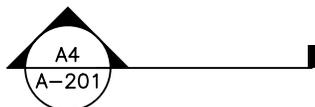
ELEVATION INDICATOR, EXTERIOR



ELEVATION INDICATOR, INTERIOR, MULTIPLE VIEW



ELEVATION INDICATOR, INTERIOR, SINGLE VIEW



BUILDING SECTION INDICATOR



Department of
Veterans Affairs

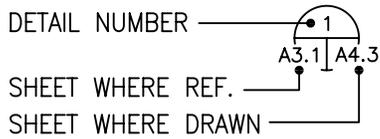
DETAIL TITLE / ARCHITECTURAL SYMBOLS

SCALE :NONE

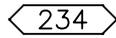
DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.: SD000115-25.DWG

ARCHITECTURAL SYMBOLS



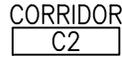
DETAIL INDICATOR



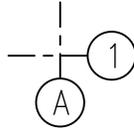
FURNITURE, FIXTURE, & EQUIPMENT INDICATOR



GRAPHIC SCALE, 1/8"=1'-0"



ROOM NAME AND NUMBER



COLUMN GRID



KEYNOTE



WALL OR PARTITION TYPE



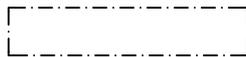
FIRE EXTINGUISHER CABINET



CORNER GUARD



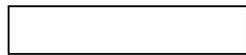
NORTH ARROW



V V ITEM – VA SUPPLIED & INSTALLED



VC ITEM – VA SUPPLIED & CONTRACTOR INSTALLED



CC ITEM – CONTRACTOR SUPPLIED & INSTALLED

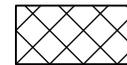
MATERIALS LEGEND



CONCRETE



EXISTING CONSTRUCTION TO REMAIN



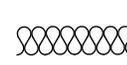
RIGID INSULATION



EARTH



EXISTING CONSTRUCTION TO BE REMOVED



BATT INSULATION



BASE COURSE



NEW CONSTRUCTION



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Veterans Affairs

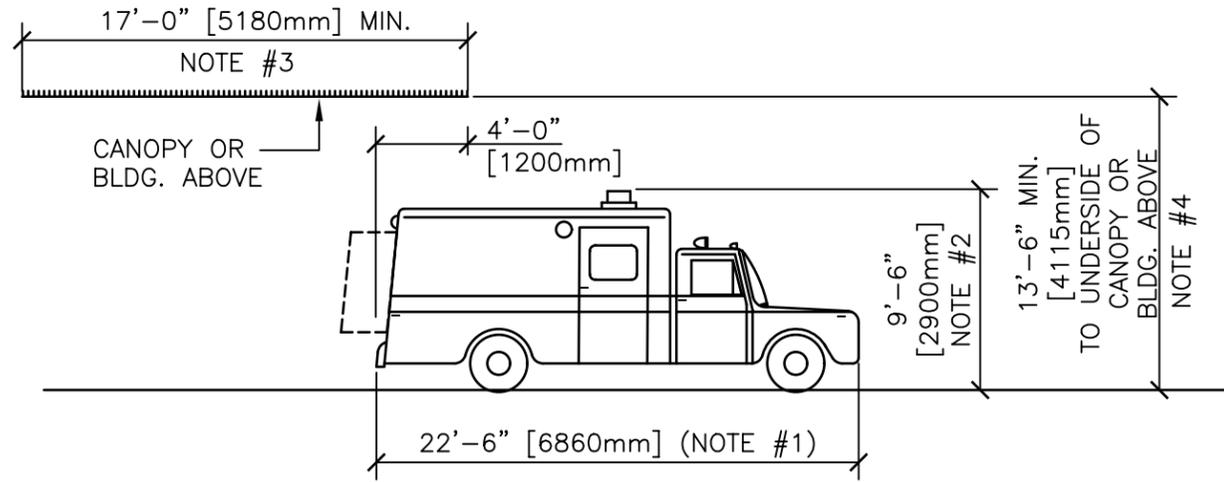
DETAIL TITLE / ARCHITECTURAL SYMBOLS

SCALE :NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.:

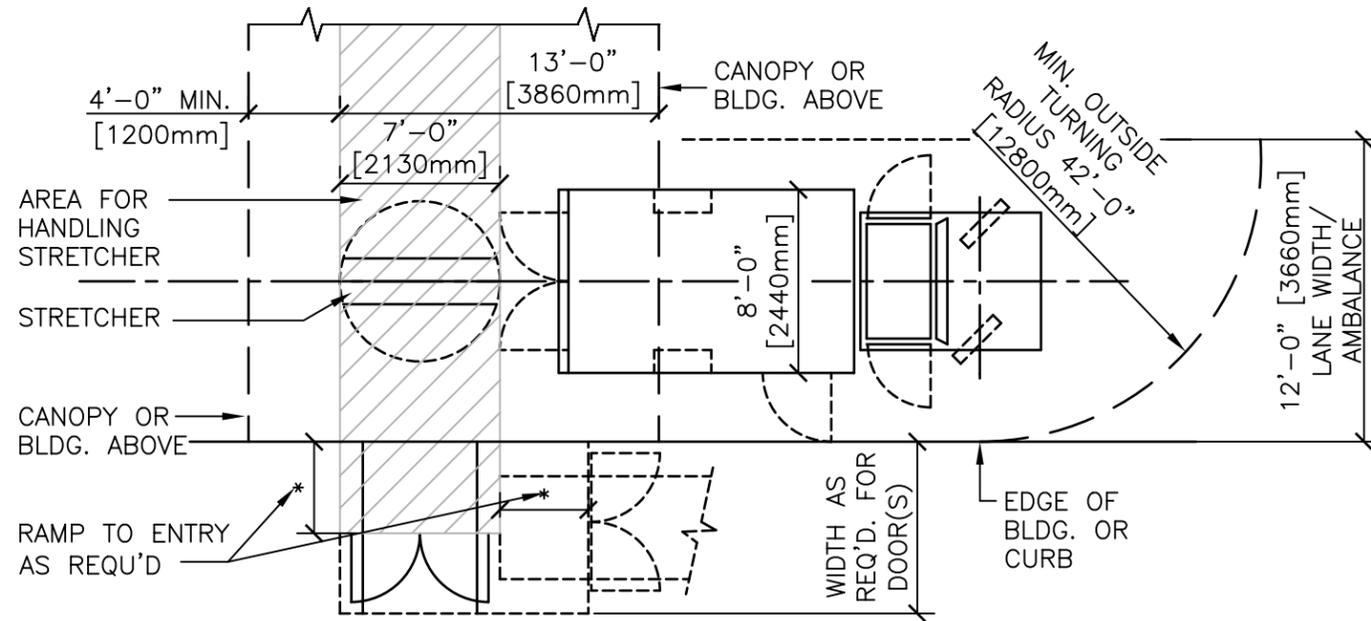
SD000115-26.DWG



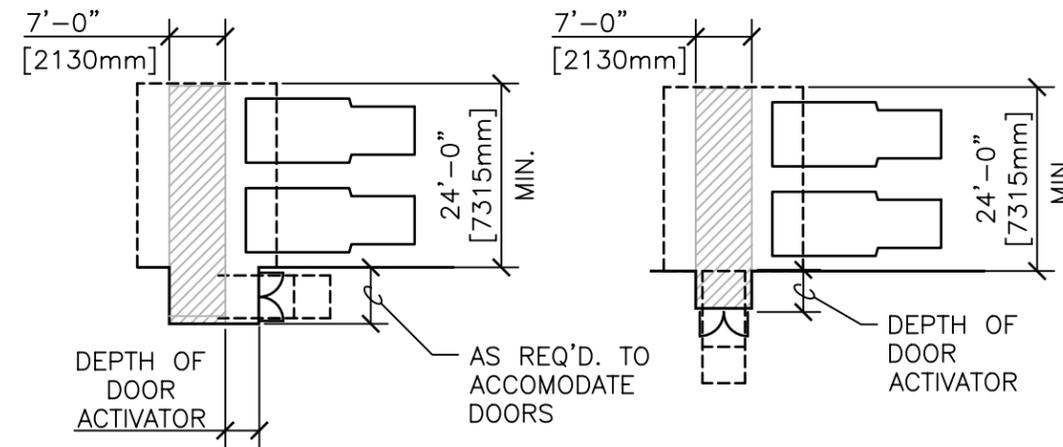
SECTION THRU UNLOADING

NOTES:

1. THE ARCHITECT/ENGINEER SHALL VERIFY THAT THESE DIMENSIONS CONFIRM TO THE REQUIREMENTS OF THE VEHICLE SIZE USED AT THE PROJECT LOCATION.
2. INCLUDES ROOF MOUNTED EQUIPMENT, DOES NOT INCLUDE TWO-WAY RADIO ANTENNA.
3. THIS DIMENSION IS A MINIMUM RECOMMENDATION. THE COVERED AREA SHOULD BE DESIGNED IN RESPONSE TO THE SPECIFIC CONDITIONS OF EACH PROJECT: CLIMATE, ORIENTATION, SITE, ETC.
4. 10'-0" [3050mm] IS ABSOLUTE MINIMUM PER VA DESIGN GUIDES. PREFERENCE SHALL BE GIVEN TO INCREASED CLEARANCE TO ALLOW FOR VARIATIONS IN VEHICLE DESIGN, LIGHTS, GROUND SLOPE, ETC.



PLAN OF UNLOADING



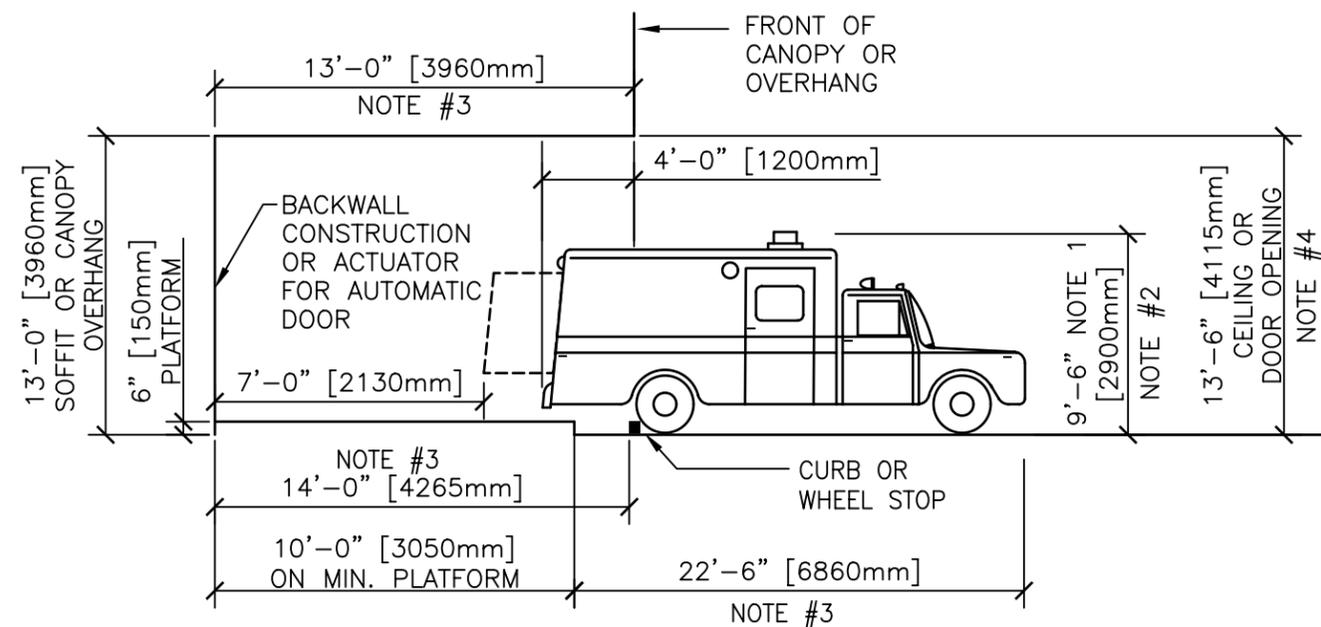
TYPICAL ARRANGEMENTS

DETAIL TITLE / AMBULANCE ENTRANCE DETAILS
FOR HEAD-IN OR DRIVE THRU
UNLOADING

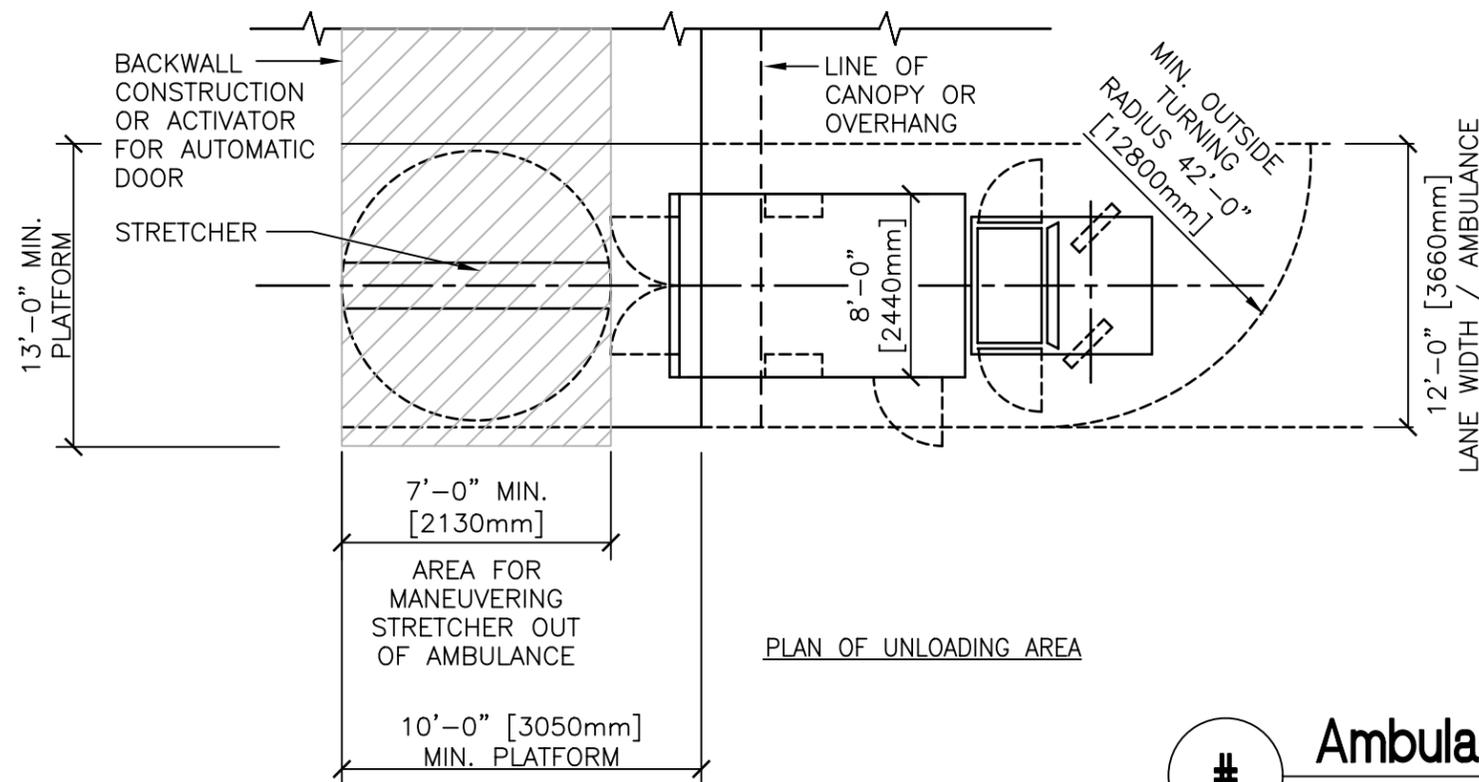
SCALE : NONE

DATE ISSUED: DECEMBER 2008

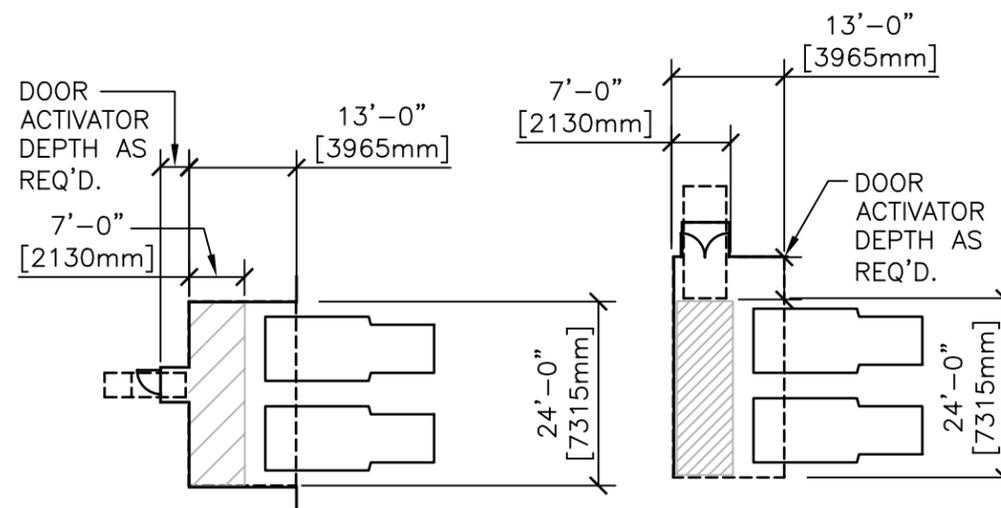
CAD DETAIL NO.: SD001000-01.DWG



SECTION THRU UNLOADING AREA



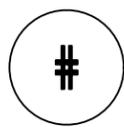
PLAN OF UNLOADING AREA



TYPICAL ARRANGEMENTS

NOTES:

1. THE ARCHITECT/ENGINEER SHALL VERIFY THAT THESE DIMENSIONS CONFIRM TO THE REQUIREMENTS OF THE VEHICLE SIZE USED AT THE PROJECT LOCATION.
2. INCLUDES ROOF MOUNTED EQUIPMENT, DOES NOT INCLUDE TWO-WAY RADIO ANTENNA.
3. THIS DIMENSION IS A MINIMUM RECOMMENDATION. THE COVERED AREA SHOULD BE DESIGNED IN RESPONSE TO THE SPECIFIC CONDITIONS OF EACH PROJECT: CLIMATE, ORIENTATION, SITE, ETC.
4. 10'-0" [3050mm] IS ABSOLUTE MINIMUM PER VA DESIGN GUIDES. PREFERENCE SHALL BE GIVEN TO INCREASED CLEARANCE TO ALLOW FOR VARIATIONS IN VEHICLE DESIGN, LIGHTS, GROUND SLOPE, ETC.



Ambulance Entrance Details

NTS

DETAIL TITLE / AMBULANCE ENTRANCE DETAILS FOR BACK-IN UNLOADING

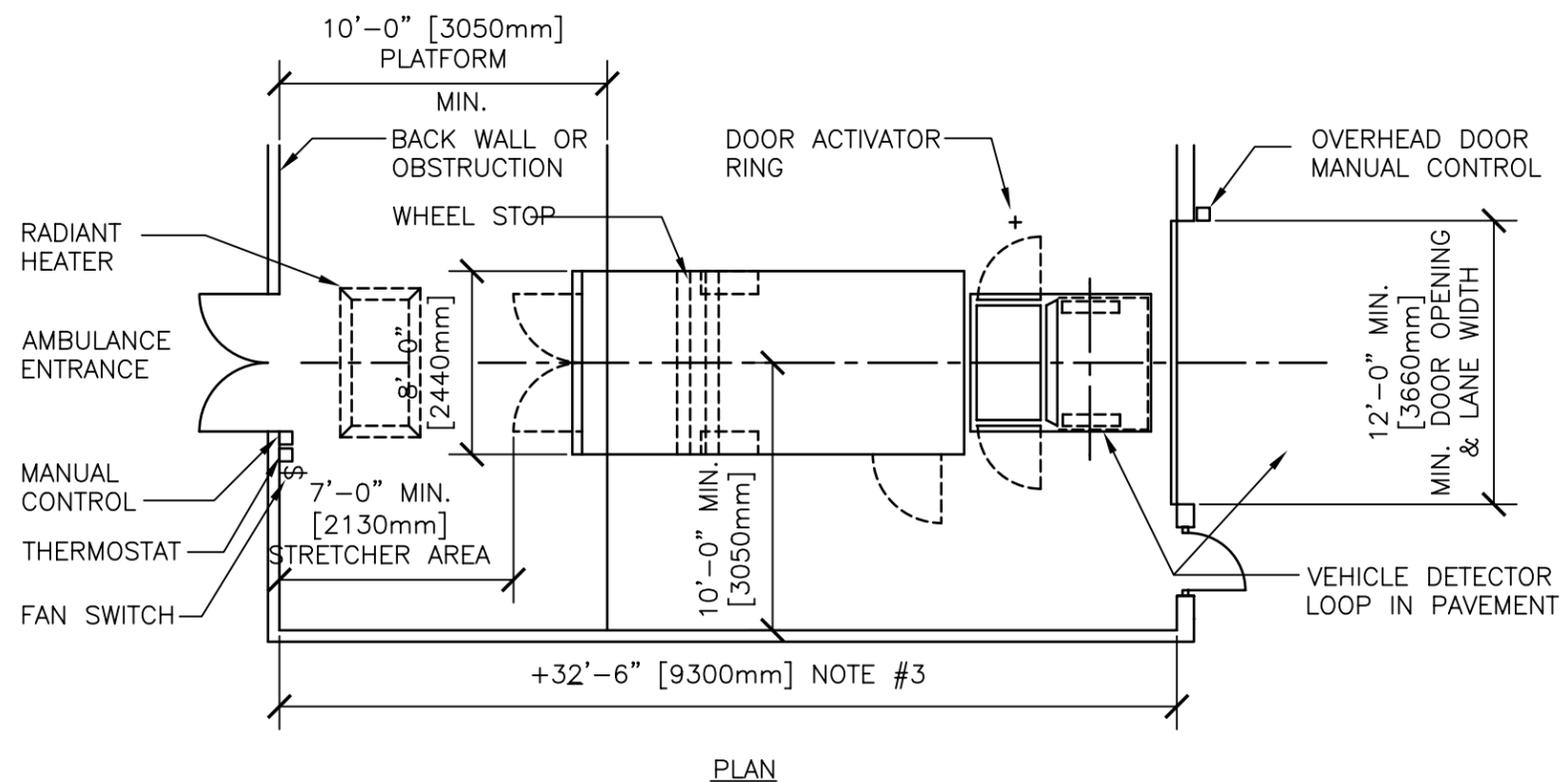
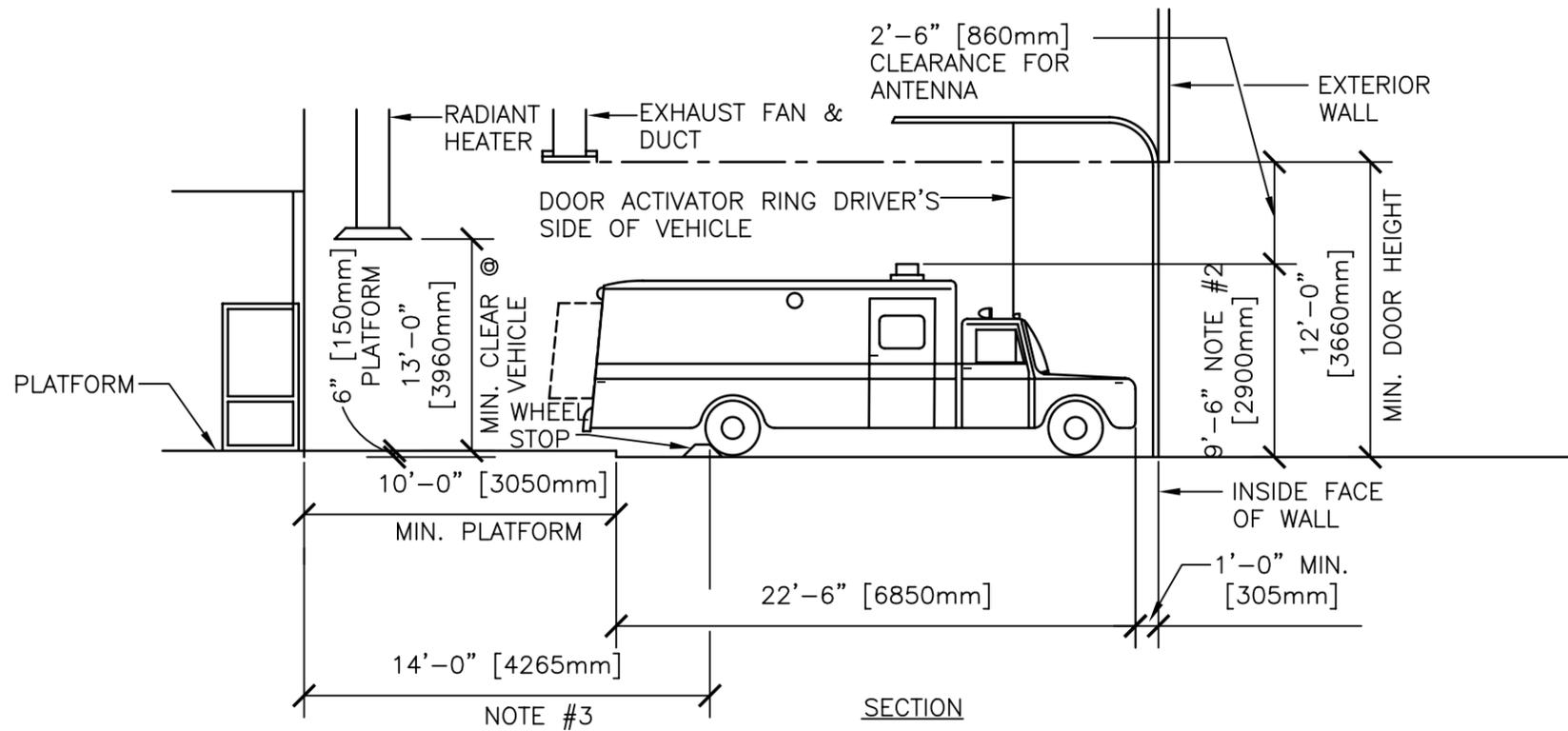
SCALE : NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.: SD001000-02.DWG

Department of Veterans Affairs





NOTES:

1. THE ARCHITECT/ENGINEER SHALL VERIFY THAT THESE DIMENSIONS CONFIRM TO THE REQUIREMENTS OF THE VEHICLE SIZE USED AT THE PROJECT LOCATION.
2. INCLUDES ROOF MOUNTED EQUIPMENT, DOES NOT INCLUDE TWO-WAY RADIO ANTENNA.
3. THIS DIMENSION IS A MINIMUM RECOMMENDATION. THE COVERED AREA SHOULD BE DESIGNED IN RESPONSE TO THE SPECIFIC CONDITIONS OF EACH PROJECT: CLIMATE, ORIENTATION, SITE, ETC.
4. 10'-0" [3050mm] IS ABSOLUTE MINIMUM PER VA DESIGN GUIDES. PREFERENCE SHALL BE GIVEN TO INCREASED CLEARANCE TO ALLOW FOR VARIATIONS IN VEHICLE DESIGN, LIGHTS, GROUND SLOPE, ETC.

DETAIL TITLE / AMBULANCE ENTRANCE DETAILS WITH ENCLOSURE

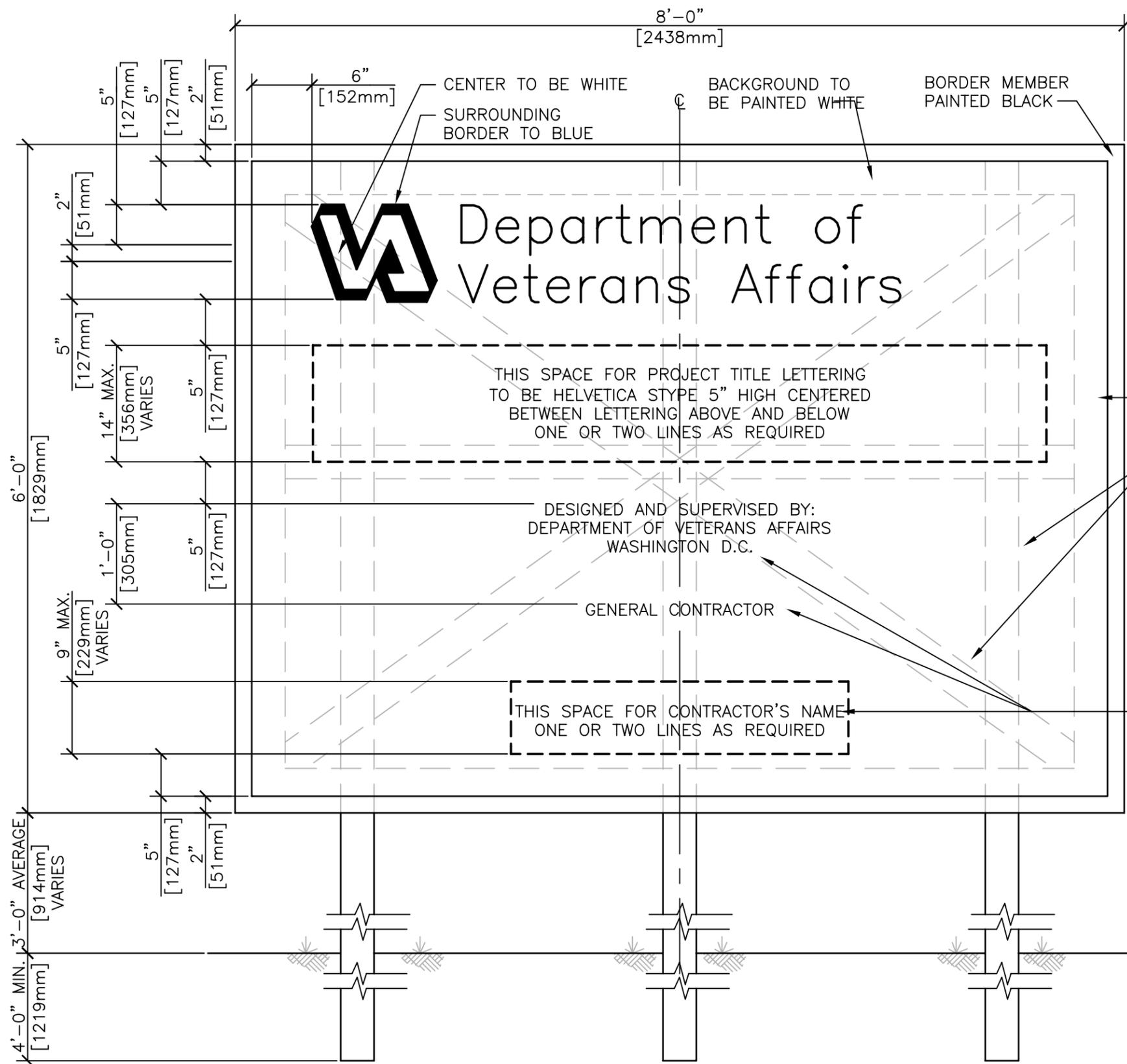
SCALE : NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.: SD001000-03.DWG

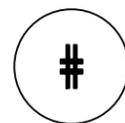
Department of Veterans Affairs





ELEVATION

SECTION ON CENTERLINE



CONSTRUCTION SIGN

NTS

DETAIL TITLE / CONSTRUCTION SIGN

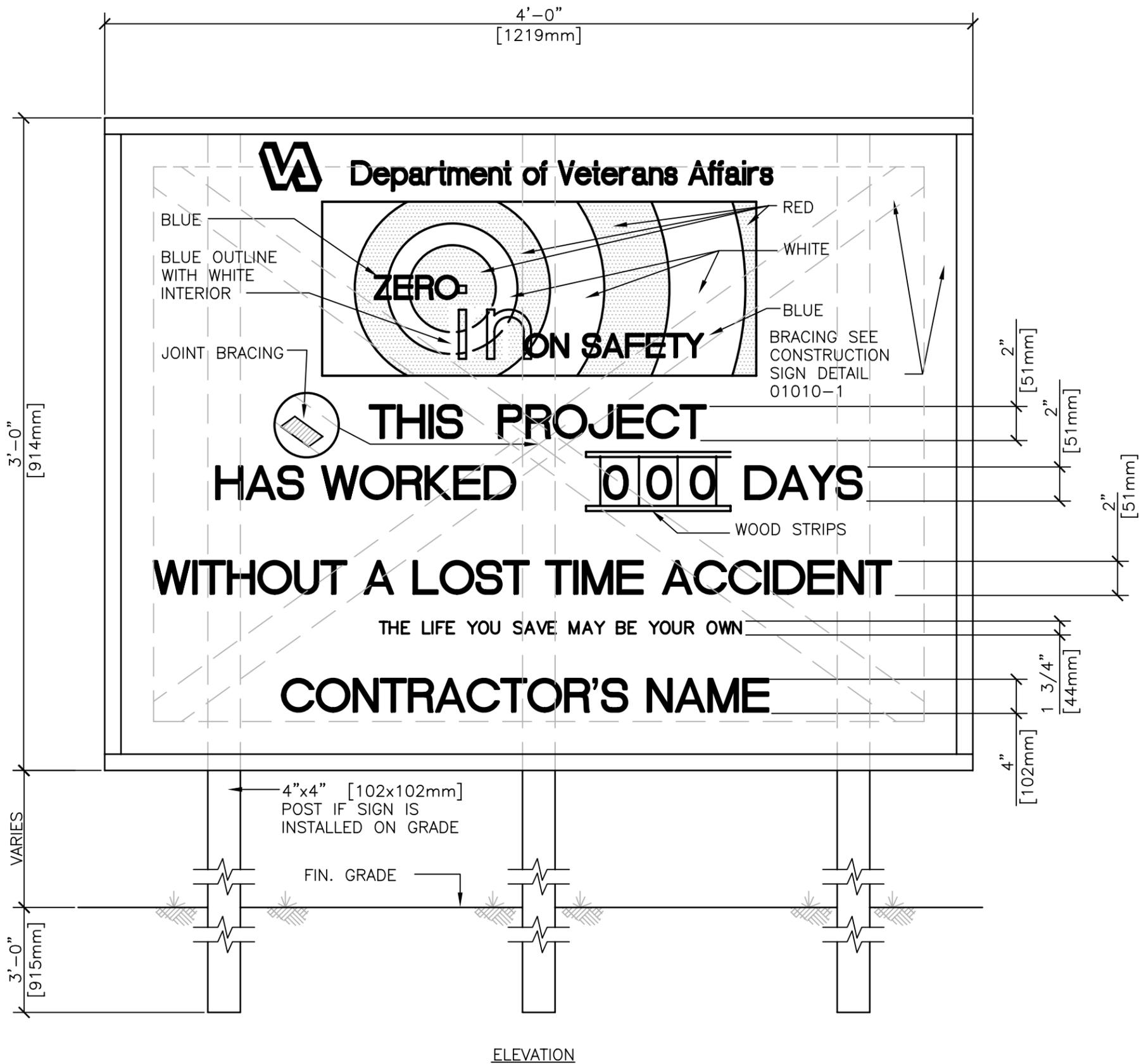
Department of
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SCALE : NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.: SD010000-1.DWG



SAFETY SIGN
NTS

DETAIL TITLE / SAFETY SIGN

Department of Veterans Affairs

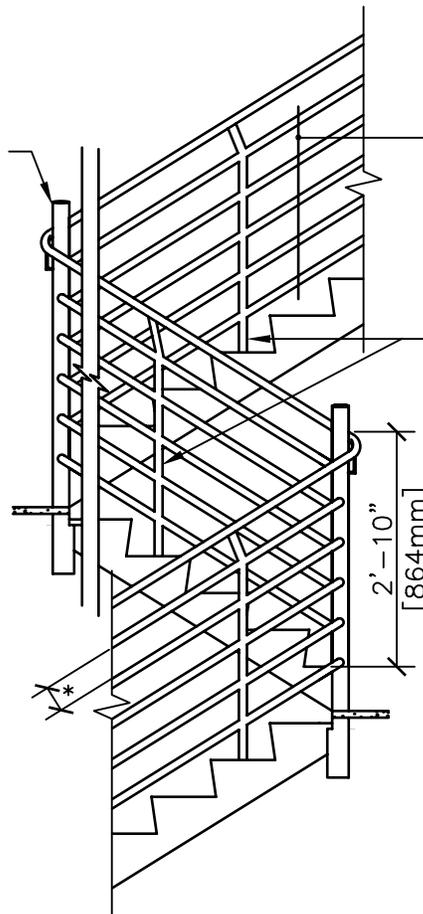


SCALE : NONE

DATE ISSUED: DECEMBER 2008

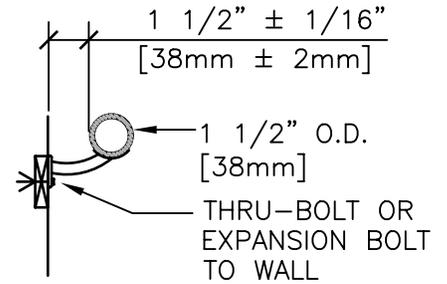
CAD DETAIL NO.: SD010000-02.DWG

4"x4"
[102x102mm]
NEWEL POST
EACH LANDING



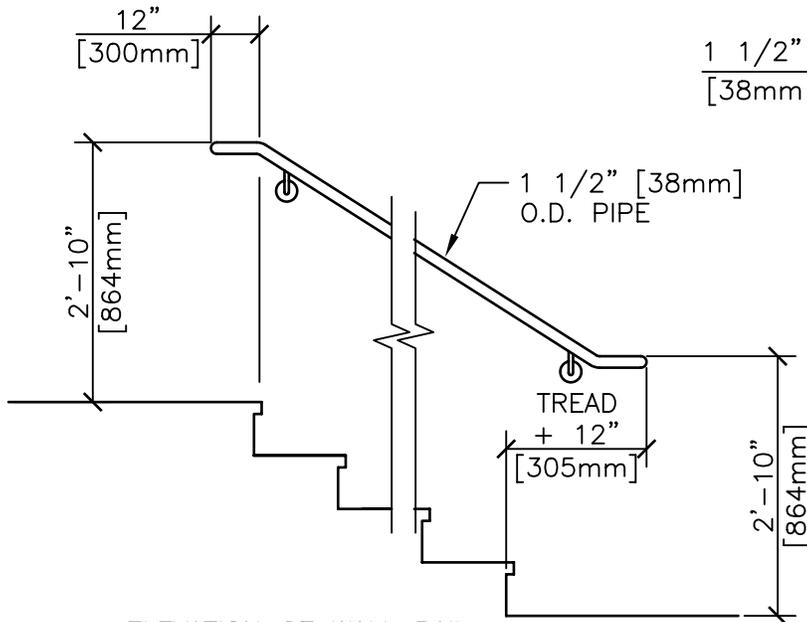
6 EQUAL SPACES
3.9" [99mm]
APART (REJECT 4"
DIA. SPHERE)

1 1/2" [38mm] O.D.
PIPE



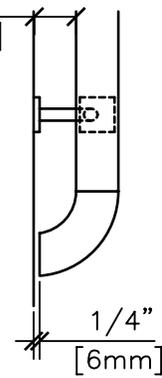
SECTION AT LANDINGS

SECTION THROUGH WALL RAIL

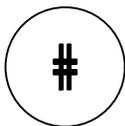


ELEVATION OF WALL RAIL

1 1/2" ± 1/16"
[38mm ± 2mm]



PLAN VIEW



EXIT STAIR DETAILS

NTS



Department of
Veterans Affairs

DETAIL TITLE / EXIT STAIR DETAILS

SCALE : NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.: SD055100-01.DWG

ALL BOLTED CONNECTIONS

1/8" [3mm] MET. BENT PLATES SECURED TO STRUCTURE

TWO SPECIAL STEEL CHANNEL BRACES EA. @ 30° TO 45° ANGLE

SPECIAL MET. CHANNEL BRACE EA. END - INSTALL TO CLEAR DUCTS, PIPES, CONDUITS CEILING SUS. SYSTEM.

1/8" [3mm] STEEL BENT PLATES
STEEL SHIMS
CLOSE ENDS OF BOTTOM CHANNEL

FINISHED ROOM CEILING
1 5/8" WIDEx4" LONGx1/4" THICK [41x102x6mm] ADJUST. MET. PLATE DRILLED FOR TWO CLAMP BOLTS

1/4"[6mm]Ø S.S. EYE BOLT WITH APPROX. 1" [25mm]Ø HOLE WELD TO METAL CHANNEL

METAL CHAIN(S), SNAP HOOKS BARS, ARE V V.

3/4" [19mm]

SPECIAL METAL CHANNELS BACK TO BACK

SPECIAL CLAMP BOLTS
SNAP HOOK PEARL SHAPED
2'-0" [610mm]
UNLESS OTHERWISE REQ'D

ELEVATION

SPECIAL CLAMP BOLTS

30°-45°

SPECIAL CLAMP BOLT

VARIES AS REQ'D.

SHIMS

3 1/4" [83mm]

SPECIAL 1 5/8" [41mm] METAL CHANNELS BACK TO BACK

COIL SPRINGS

METAL PLATE

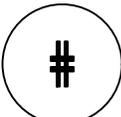
SPECIAL CLAMP BOLT

EYE BOLT

FIN. CEILING

CEILING WALL EDGE ANGLES

TRAPEZE, EXERCISE BAR AND PATIENT HELPER SUSPENSION DETAIL



NTS



Department of Veterans Affairs

DETAIL TITLE / TRAPEZE, EXERCISE BAR & PATIENT HELPER SUSPENSION DETAIL

SCALE :NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.:

SD055000-01.DWG

FASTEN AT BOTH ENDS
WITH MIN. 4 TAPPING
SCREWS.

CUT HORIZONTAL
FASTENER FROM
STUD

VERTICAL WALL STUDS
AT 16" [406mm] OR
24" [610mm] O.C.

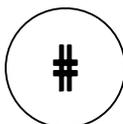
ISOMETRIC

WALL FINISH

GENERAL NOTES:

1. CONTRACTOR SHALL
COORDINATE LOCATIONS OF
HORIZONTAL FASTENERS.

PLAN



ANCHORAGE - GRAB BARS AND CABINETS

NTS



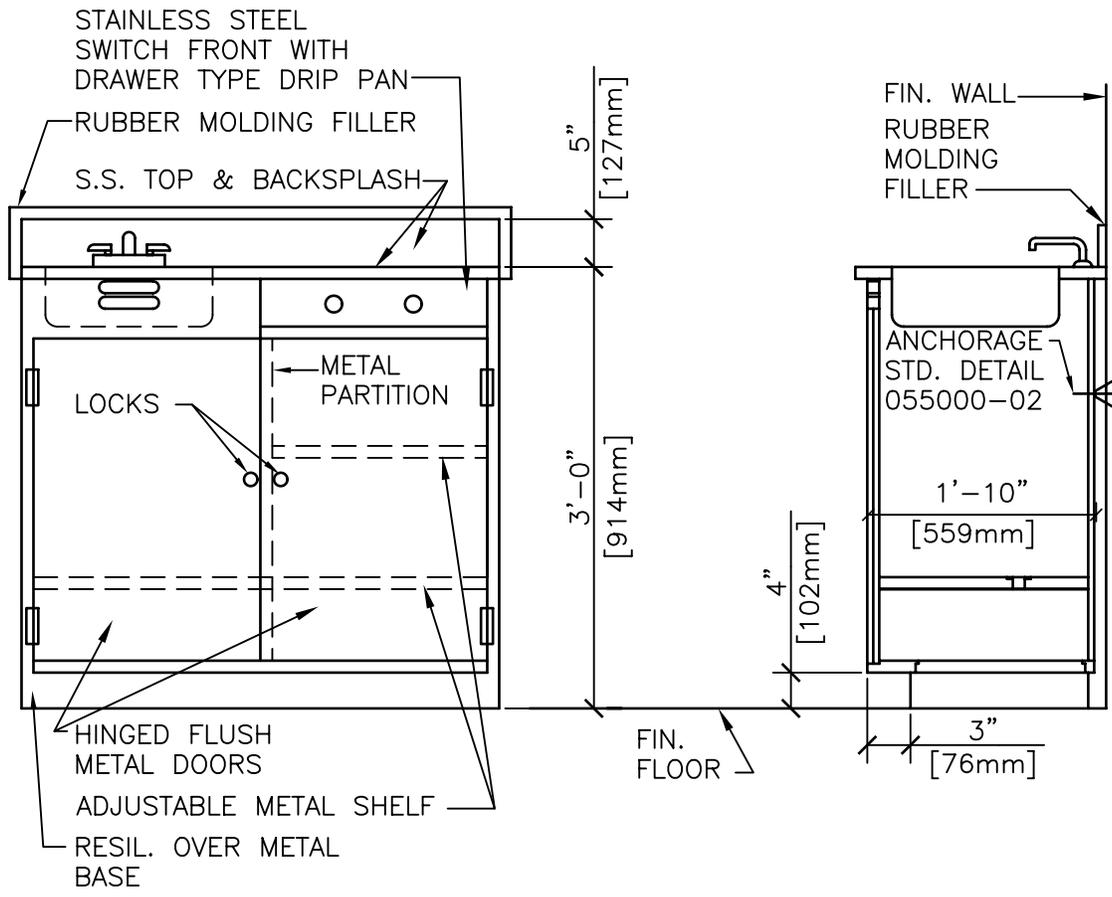
Department of
Veterans Affairs

DETAIL TITLE / ANCHORAGE - GRAB BARS AND CABINETS

SCALE :NONE

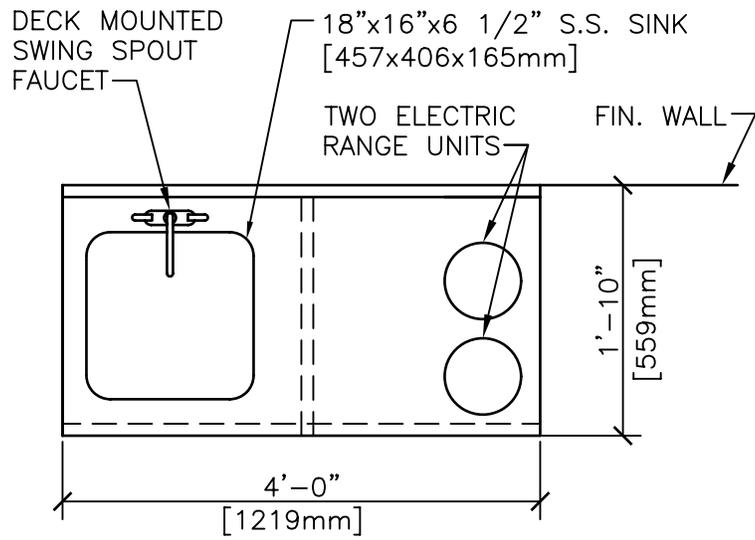
DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.: SD055000-02.DWG

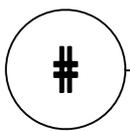


ELEVATION

SECTION



PLAN



KITCHEN CABINET - TYPE 22F

NTS



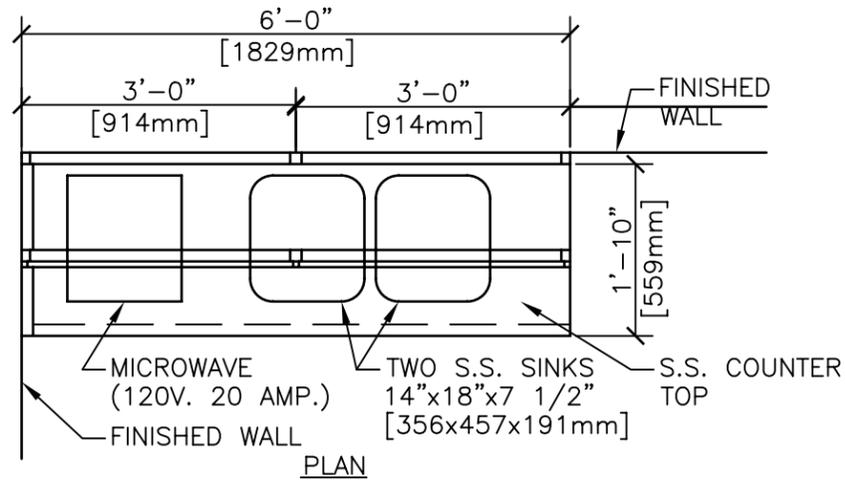
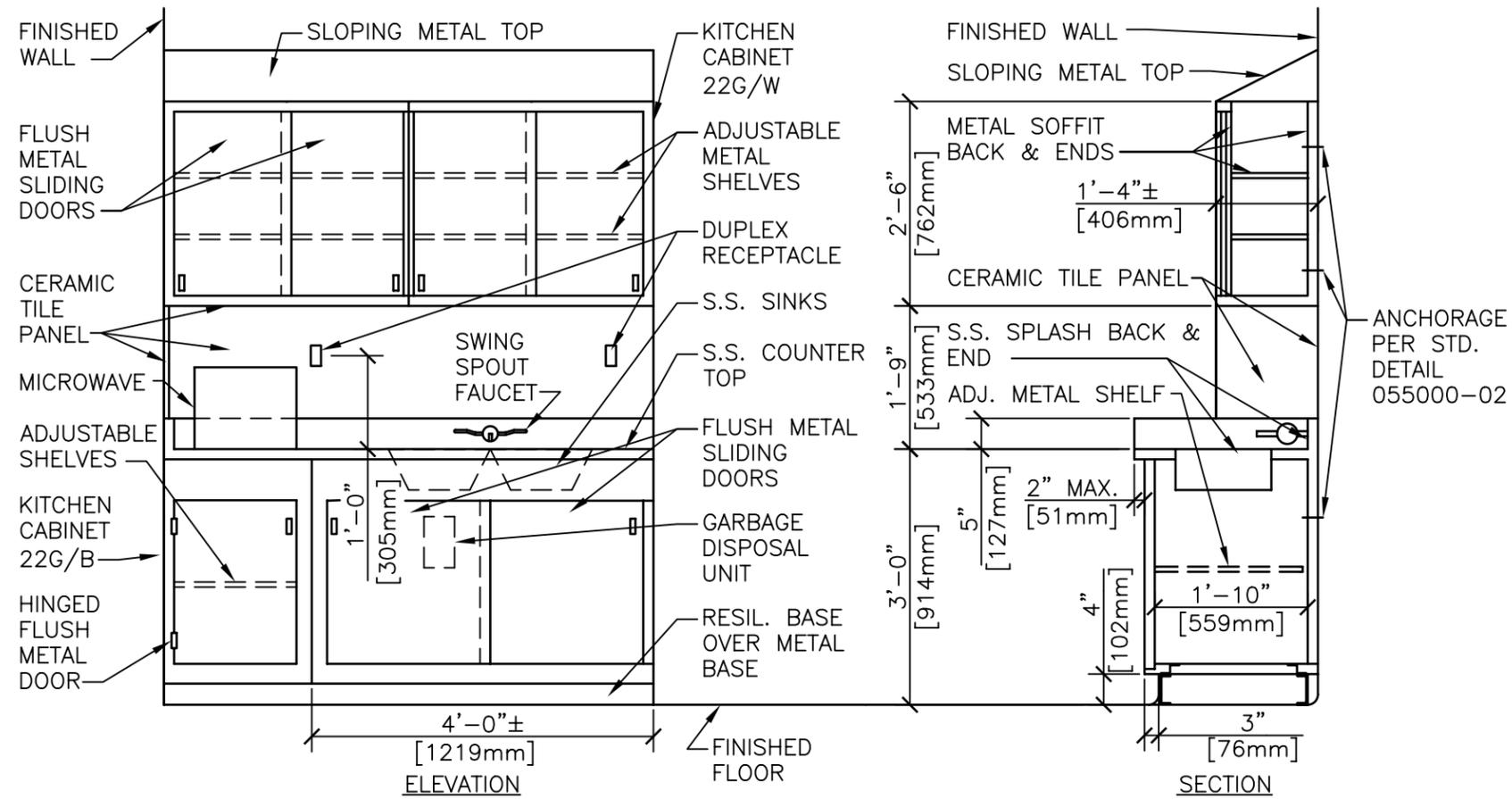
Department of
Veterans Affairs

DETAIL TITLE / KITCHEN CABINET - TYPE 22F

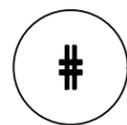
SCALE :NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.: SD062000-01.DWG



- GENERAL NOTES:**
1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL.
 2. MICROWAVE SHALL BE FURNISHED AND INSTALLED BY VA MEDICAL CENTER.



KITCHEN CABINET ASSEMBLY - TYPE 22G

NTS

DETAIL TITLE / KITCHEN CABINET ASSEMBLY - TYPE 22G

SCALE : NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.: SD062000-02.DWG

Department of
Veterans Affairs





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Veterans Affairs

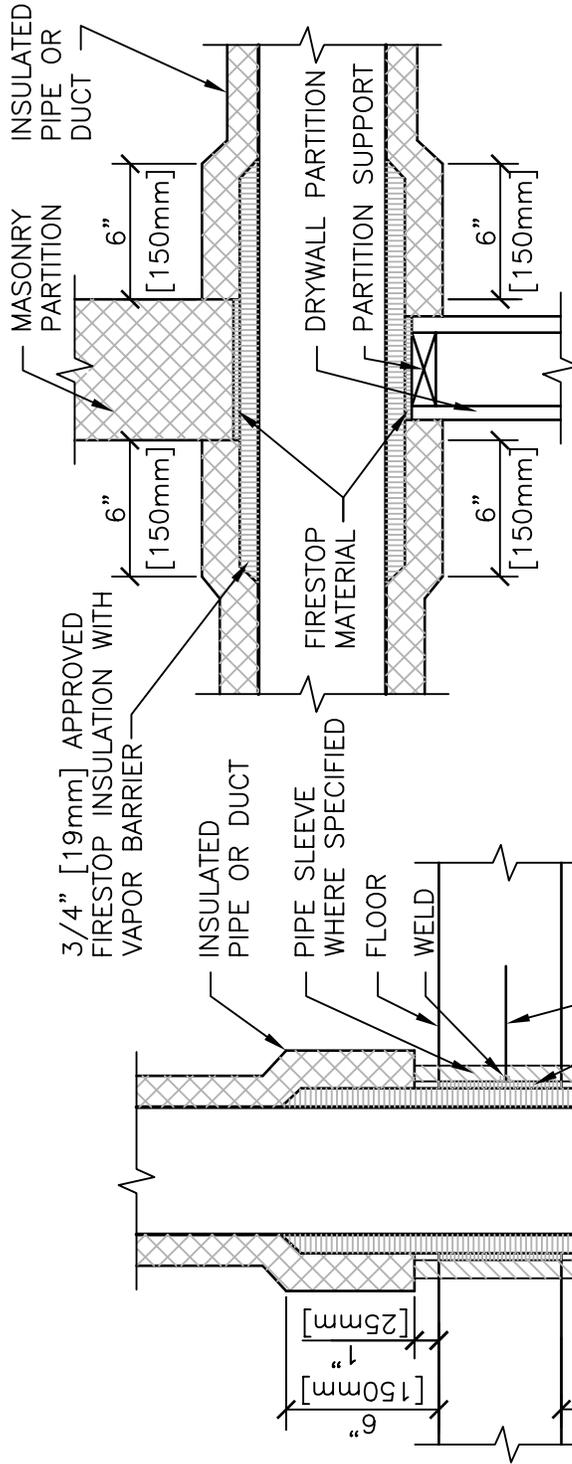
DETAIL TITLE / PIPE/DUCT PENETRATION OF SMOKE/FIRE BARRIERS

SCALE :NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.:

SD078400-01.DWG



PARTITION OR CHASE PENETRATION

NOTE:

1. APPLICABLE TO PENETRATIONS OF ALL FIRE RATED MEMBRANES, IN ACCORDANCE WITH NFPA 101. REFER TO SPECIFICATIONS SECTION 07 84 00, FIRE STOPPING SYSTEMS.

PIPE/DUCT

PENETRATION OF SMOKE/FIRE BARRIERS

NTS

#

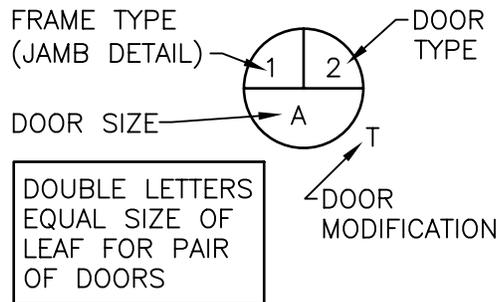
DOOR SIZES

MK	WIDTH		HEIGHT		MK	WIDTH		HEIGHT	
	IN	[mm]	IN	[mm]		IN	[mm]	IN	[mm]
A	1'-6"	[457]	6'-8"	[2032]	N	2'-0"	[610]	7'-0"	[2134]
B	2'-0"	[610]	6'-8"	[2032]	O	2'-2"	[660]	7'-0"	[2134]
C	2'-2"	[660]	6'-8"	[2032]	P	2'-4"	[711]	7'-0"	[2134]
D	2'-4"	[711]	6'-8"	[2032]	Q	2'-6"	[762]	7'-0"	[2134]
E	2'-6"	[762]	6'-8"	[2032]	R	2'-8"	[813]	7'-0"	[2134]
F	2'-8"	[813]	6'-8"	[2032]	S	3'-0"	[914]	7'-0"	[2134]
G	2'-10"	[864]	6'-8"	[2032]	T	3'-4"	[1016]	7'-0"	[2134]
H	3'-0"	[914]	6'-8"	[2032]	U	3'-6"	[1067]	7'-0"	[2134]
I	3'-2"	[965]	6'-8"	[2032]	V	3'-8"	[1118]	7'-0"	[2134]
J	3'-4"	[1016]	6'-8"	[2032]	W	3'-10"	[1168]	7'-0"	[2134]
K	3'-8"	[1118]	6'-8"	[2032]	X	4'-0"	[1219]	7'-0"	[2134]
L	3'-10"	[1168]	6'-8"	[2032]	Y	3'-0"	[914]	8'-0"	[2438]
M	1'-6"	[457]	7'-8"	[2337]	Z	UNASSIGNED			

DOOR MODIFICATIONS

- A LAMINATED GLASS
- D DOUBLE GLAZED TEMPERED GLASS
- H ELECTRIC HOLD
- L LOUVER
- LP LIGHT PROOF LOUVER
- M MECH. SEAL FOR LIGHT PROOF & SOUND RETARDING DOOR
- T TEMPERED GLASS
- U UNDERCUT 1" [25mm]
- V LEAD GLASS
- F FIRE RATED GLAZING

DOOR SYMBOL



LEGEND (SEE ELEVATIONS)

- GLASS OR LOUVER REQUIRED BY MODIFICATION
- GLASS OR LOUVER REQUIRED BY ELEVATION TYPE

NOTES:

1. ALL DOORS SHALL BE FLUSH – 1 3/4" [44mm] THICK UNLESS NOTED OTHERWISE.
2. TOP & SIDE RAILS SHALL BE 9" [229mm] MIN. BOTTOM RAILS SHALL BE 12" MIN. [305mm].
3. DOOR TYPES 7, 8, & 9 SHALL NOT BE USED FOR OPPOSING DOORS.
4. FOR SCHEDULING DOOR TYPES, SEE PG-18-14.
5. EVEN NUMBERS ARE METAL; ODD NUMBERS ARE WOOD.



Department of
Veterans Affairs

DETAIL TITLE / DOOR SCHEDULE

SCALE :NONE

DATE ISSUED: DECEMBER 2008

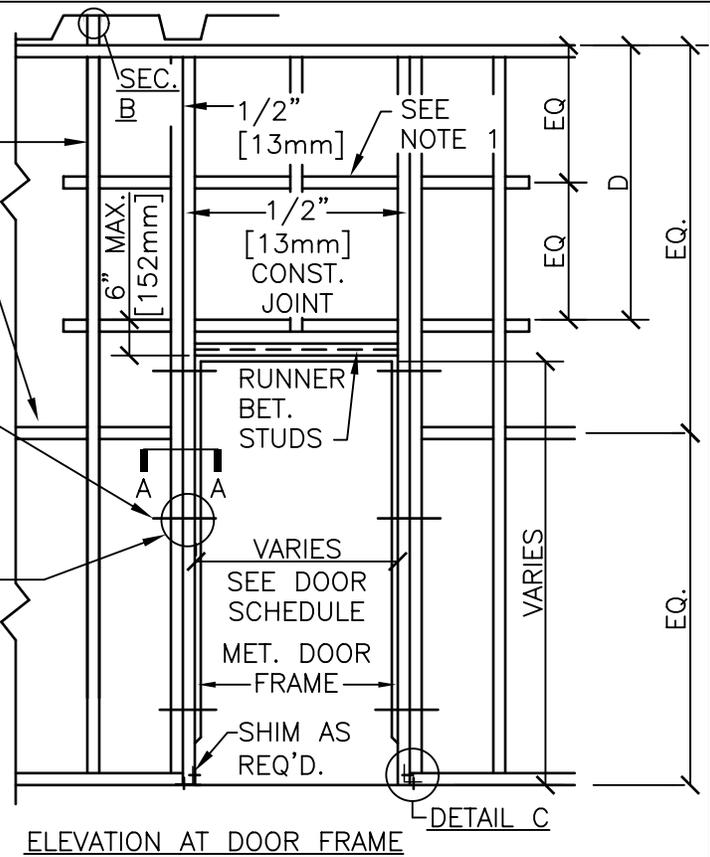
CAD DETAIL NO.: SD080000-02.DWG

VERTICAL STUDS @ 2'-0" [610mm] MAX.
 W/GYPSUM WALLBD. 1'-4" [406mm] W/GYPSUM
 LATH & PLASTER DOUBLE STUDS FOR SUPPORTING
 CONC. BACKER BOARD.

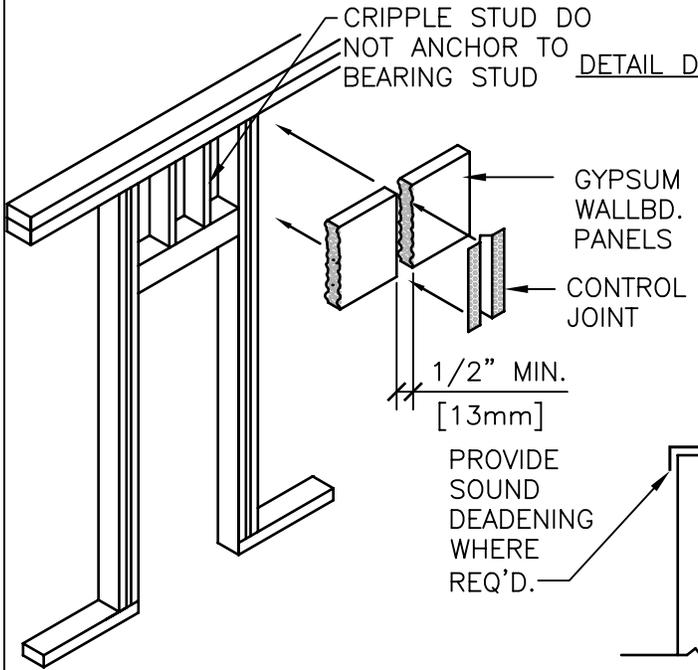
PROVIDE CONTINUOUS BRACING WHEN STUDS
 EXCEED 10'-0" [3048mm] & ARE FINISHED BOTH
 SIDES

JAMB ANCHOR CLIPS 3 PER SIDE -
 COORDINATE W/HINGE REINFORCEMENT.

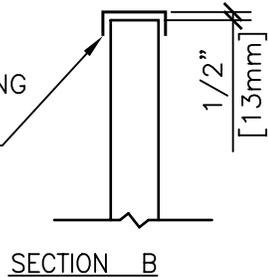
NOTE 1:
 OMIT BRACE WHEN "D" DIMENSION IS LESS
 THAN 2'-0" [610mm] FOR GYP. WALLBD.
 OR 16" [400mm] FOR PLASTER PARTITION.



ELEVATION AT DOOR FRAME

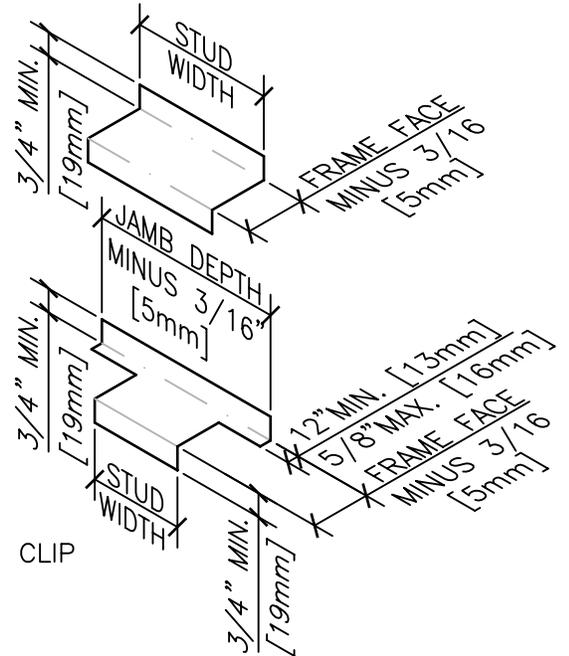


ISOMETRIC OF CONSTR. JT.

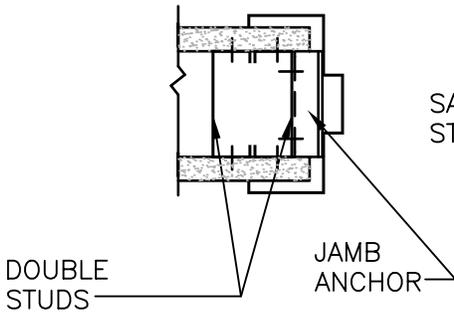


SECTION B

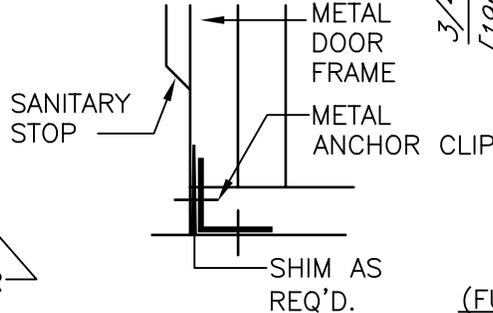
PROVIDE
 SOUND
 DEADENING
 WHERE
 REQ'D.



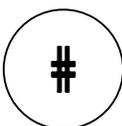
JAMB ANCHORS
 (FURNISHED WITH FRAME)



SECTION A



DETAIL C



PARTITION FRAMING FOR DOORS

NTS



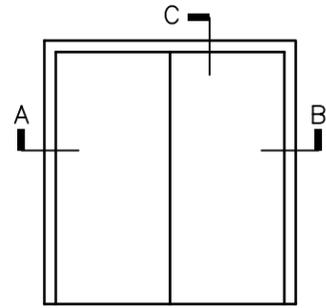
Department of
 Veterans Affairs

DETAIL TITLE / PARTITION FRAMING FOR DOORS

SCALE : NONE

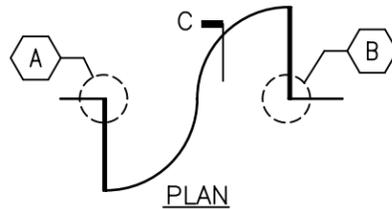
DATE ISSUED : DECEMBER 2008

CADD DETAIL NO. : SD081113-01.DWG

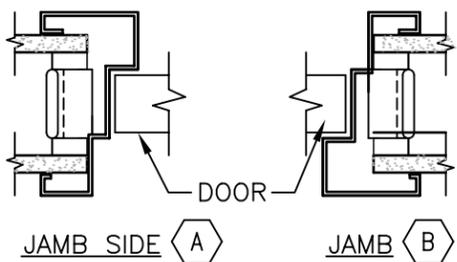


NOTE: SHOWING SWING OF DOUBLE EGRESS DOORS.

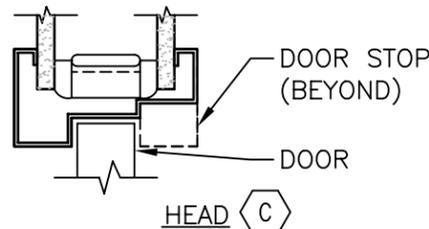
DOUBLE EGRESS DOOR FRAME



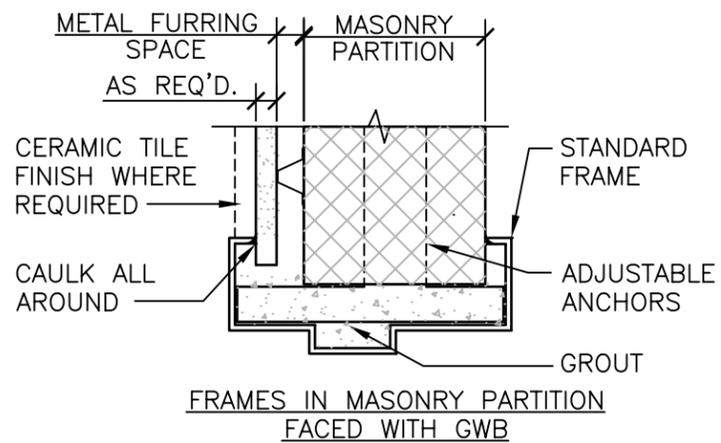
NOTE: SHOWING THE SWING OF DOUBLE EGRESS DOORS.



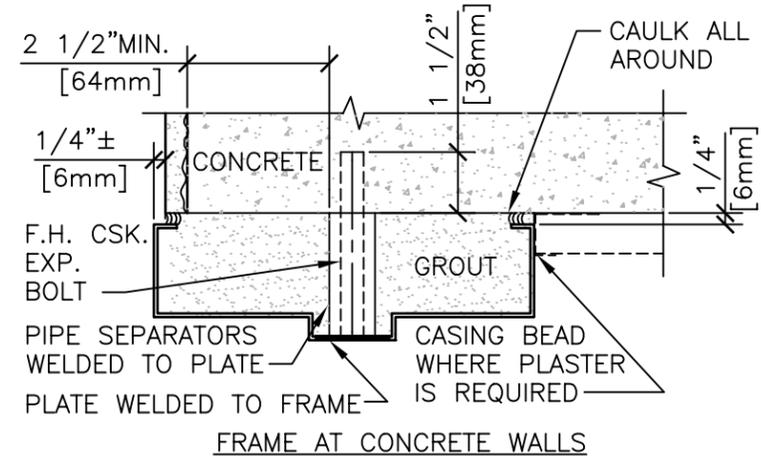
JAMB SIDE A JAMB B



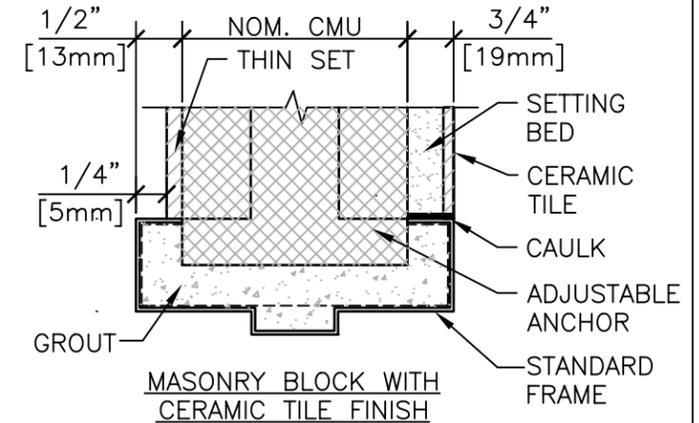
SECTIONS DOUBLE EGRESS DOORS



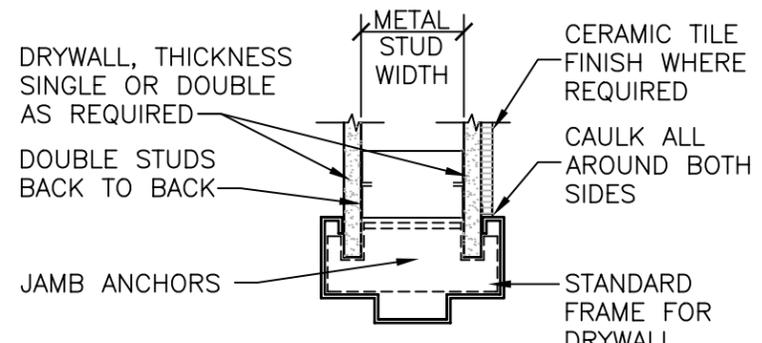
FRAMES IN MASONRY PARTITION FACED WITH GWB



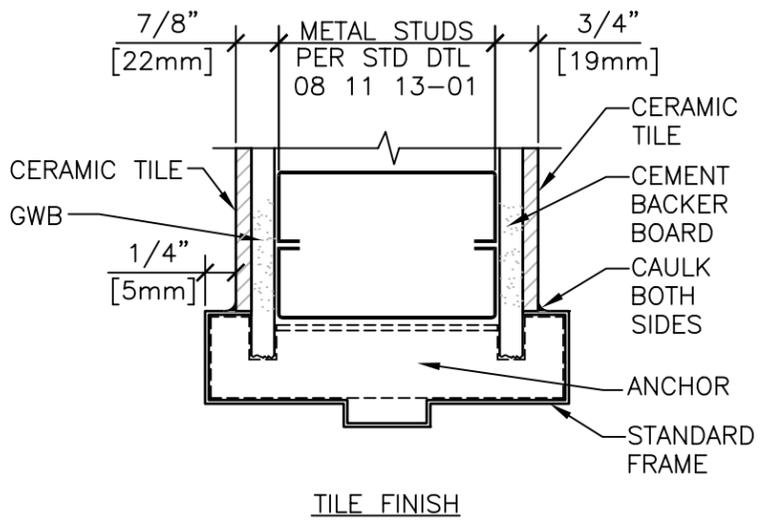
FRAME AT CONCRETE WALLS



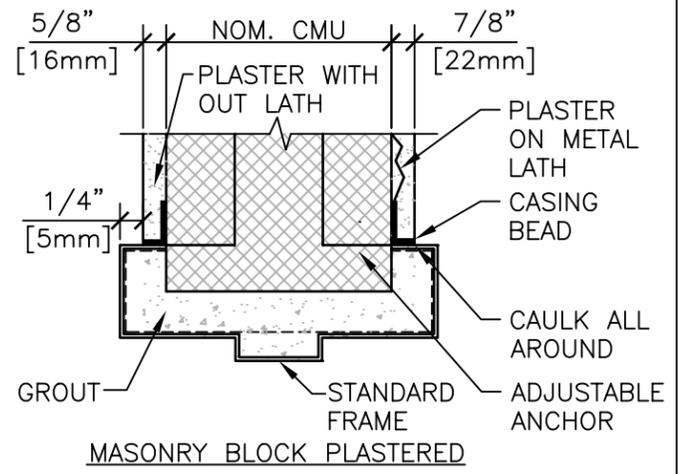
MASONRY BLOCK WITH CERAMIC TILE FINISH



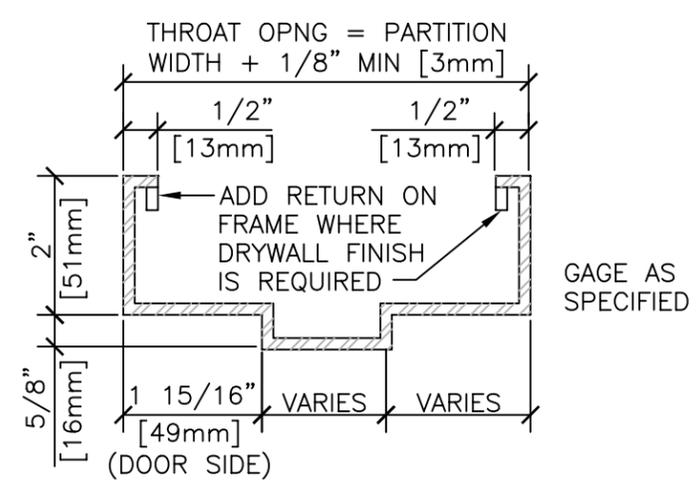
FRAMES IN METAL STUD PARTITIONS



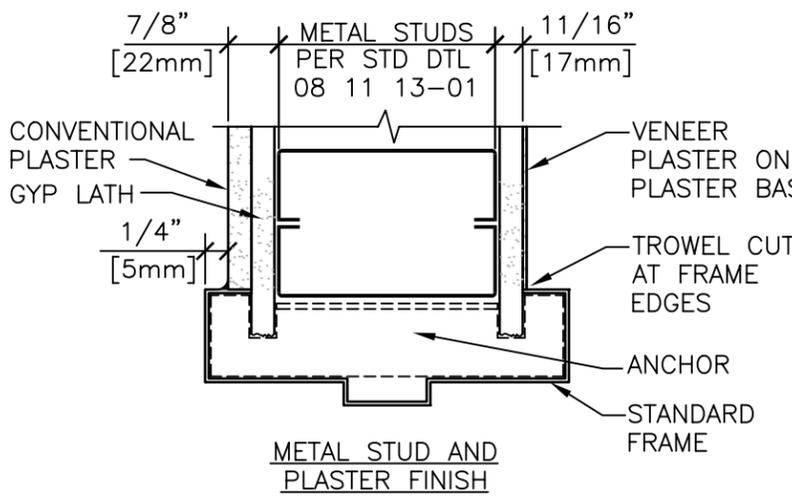
TILE FINISH



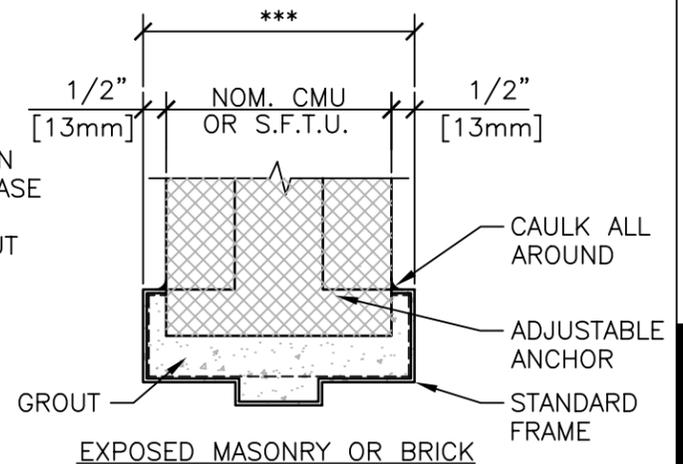
MASONRY BLOCK PLASTERED



STANDARD DOOR FRAME



FRAMES WITH METAL STUD AND PLASTER PARTITIONS



FRAMES IN MASONRY PARTITION

*** FRAME WIDTH FOR NOMINAL MASONRY
4 3/4" w/ 4" CMU [100 / 100 mm]
6 3/4" w/ 6" CMU [160 / 150 mm]
8 3/4" w/ 8" CMU [210 / 200 mm]

INTERIOR DOOR FRAMES

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Veterans Affairs

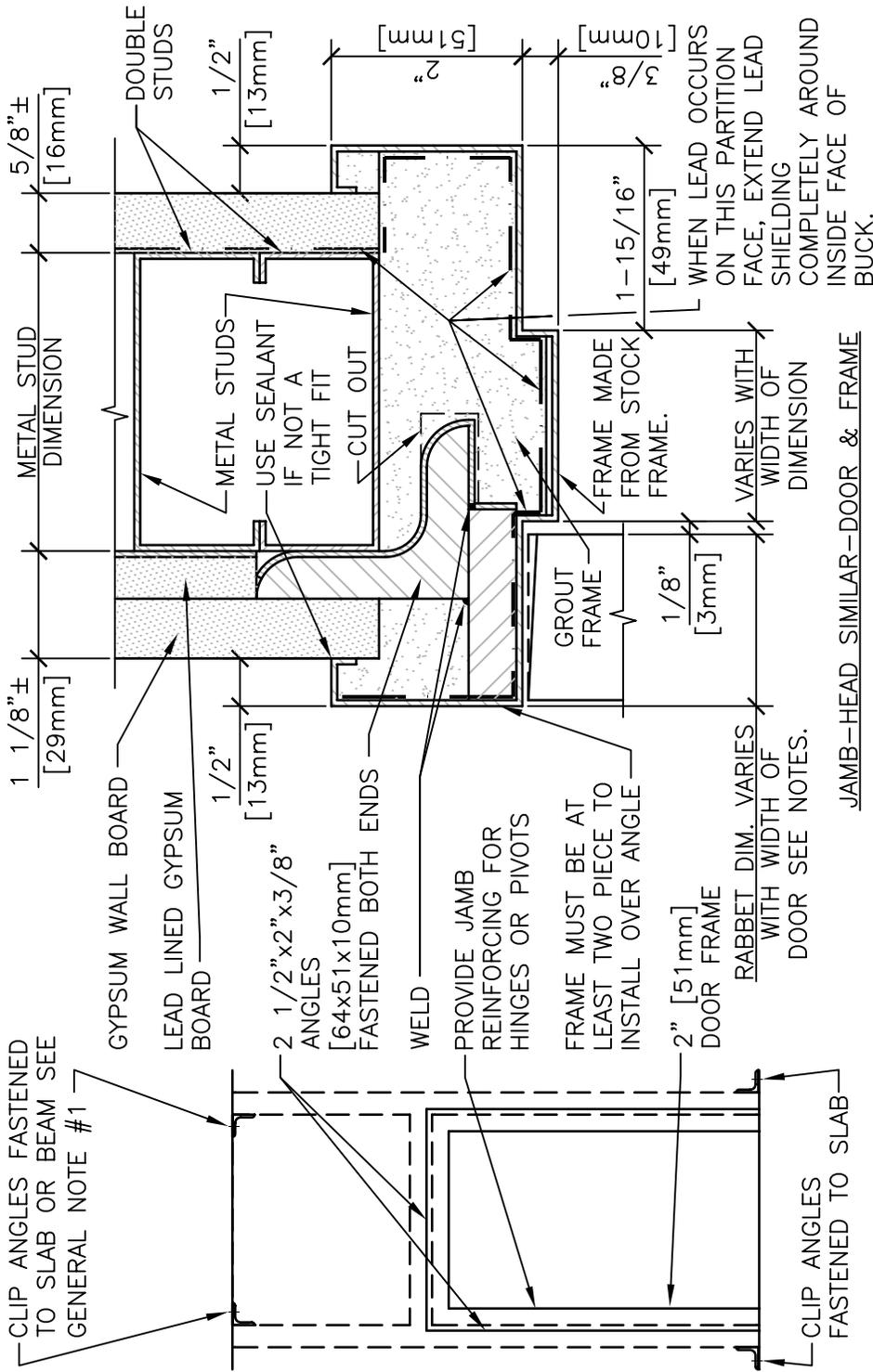
DETAIL TITLE / LEAD LINED DOOR
TYPE 15 AND FRAME

SCALE :NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.:

SD081113-03.DWG



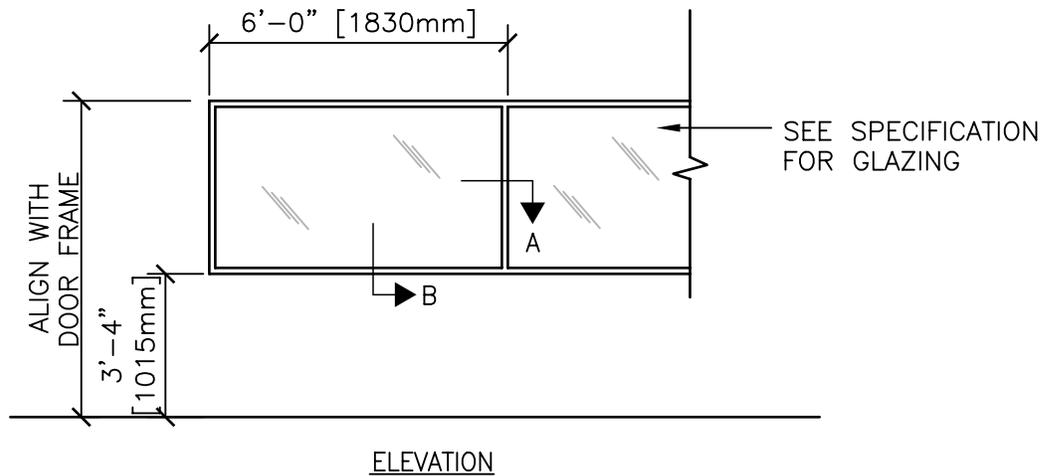
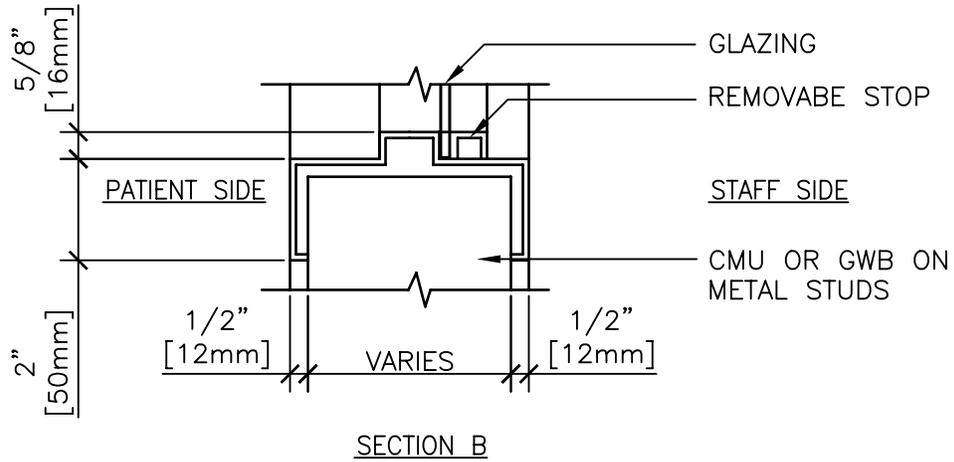
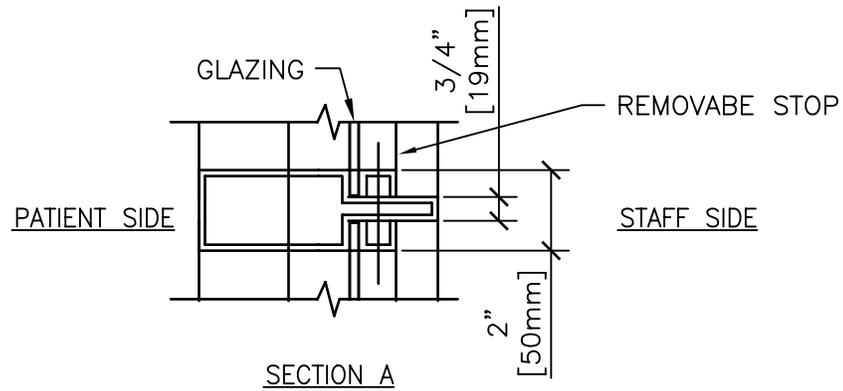
GENERAL NOTES:

1. SPECIAL ANCHORAGE OF CLIP ANGLES AT INTERSTITIAL DECKS MAY BE REQUIRED.
2. THICKNESS OF LEAD AND LEAD GLASS IN DOORS IS TO BE DETERMINED BY A REGISTERED HEALTH PHYSICIST AND REVIEWED BY THE VA HEALTH PHYSICS PROGRAM OFFICE.
3. LEAD IS NOT REQUIRED IN THE DOOR HEAD WHEN IT IS ONLY REQUIRED IN WALLS TO 7'-0" [2134mm] HEIGHT.

#

NTS

LEAD LINED DOOR TYPE 15 AND FRAME



GENERAL NOTES:

1. SILL HEIGHT FOR OBSERVATION WINDOWS IN GROUP THERAPY CAN BE 24" (600mm).
2. PROVIDE HEADER IN METAL STUD FRAMING & LINTEL AT MASONRY.
3. SEE SPECIFICATIONS FOR METAL GAUGES AND FASTENINGS.



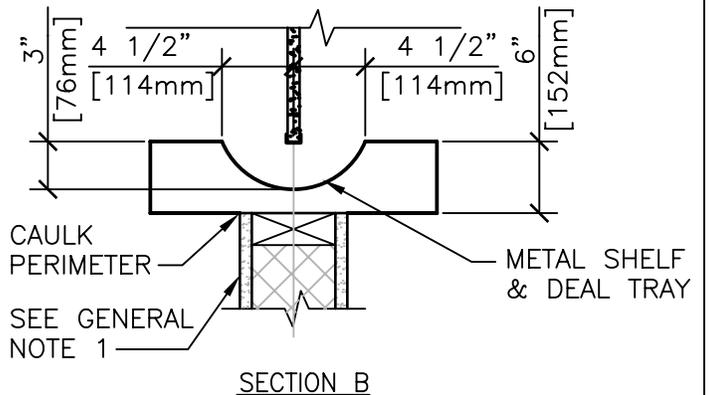
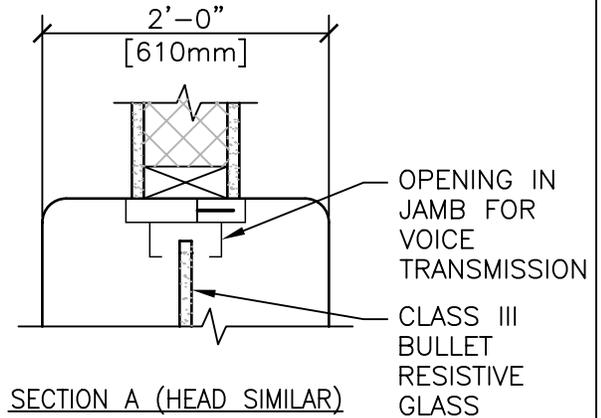
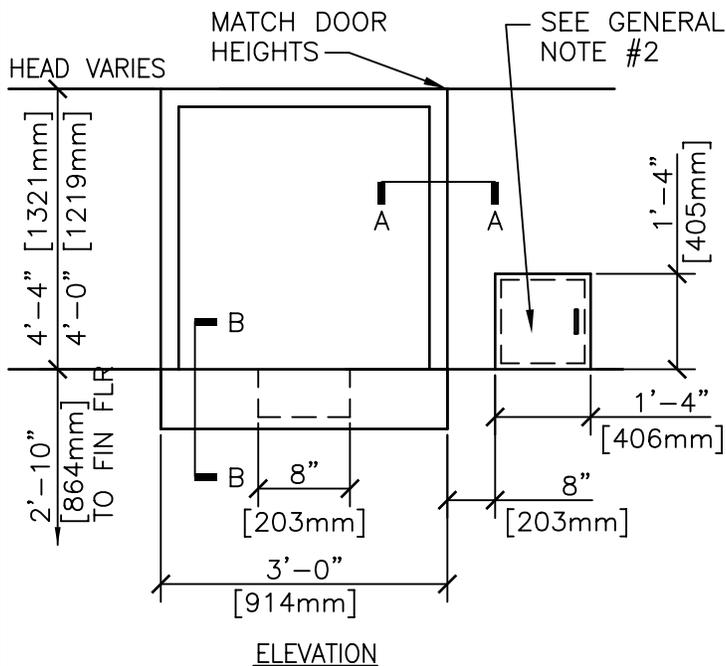
Department of
Veterans Affairs

DETAIL TITLE / OBSERVATION WINDOWS

SCALE :NONE

DATE ISSUED: DECEMBER 2008

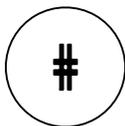
CAD DETAIL NO.: SD081113-04.DWG



GENERAL NOTES:

1. 4" [102mm] OR 6" [152mm] SOLID CMU WALL w/ GYP. WALLBOARD BOTH SIDES. MASONRY WALL IS TO EXTEND TO CEILING, ABOVE CEILING EITHER A MASONRY OR GYPSUM WALLBOARD PARTITION MUST EXTEND TO UNDERSIDE OF SLAB ABOVE AROUND ENTIRE INTERIOR PHARMACY WALL. WHERE MASONRY CONSTRUCTION IS NOT FEASIBLE, PLASTIC OR LAMINATED GLASS PRODUCTS WHICH PROVIDE THE ACCEPTABLE LEVEL OF PROTECTION MAY BE USED.
2. PROVIDE AN INTERLOCK ON PACKAGE TRANSFER DOORS SO THAT BOTH DOORS CANNOT BE OPEN AT THE SAME TIME.

PHARMACY SERVICE WINDOW AND PACKAGE TRANSFER



NTS



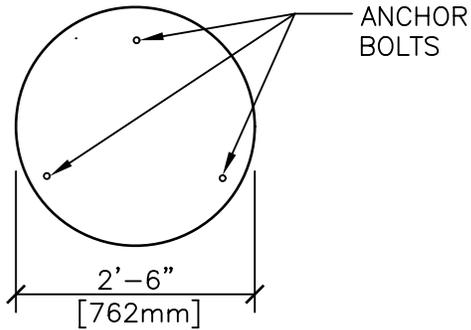
Department of
Veterans Affairs

DETAIL TITLE / PHARMACY SERVICE WINDOW
AND PACKAGE TRANSFER

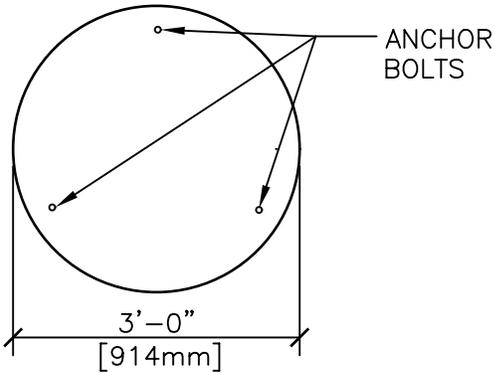
SCALE : NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.: SD085659-01.DWG



SEAL SIZE "C"



SEAL SIZE "B"

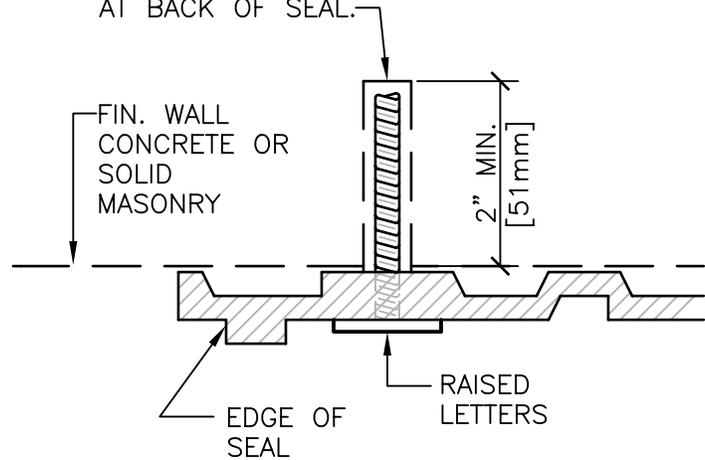


SEAL SIZE "A"

ELEVATIONS

DRILL (3) - 1 1/2" [38mm] ROUND HOLES. MOUNT SEAL ON SOLID MASONRY OR CONCRETE. ANCHOR WITH NON-SHRINK MORTAR.

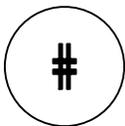
3/8" [10mm] THREADED BRONZE STUDS, SCREW INTO SOLID METAL PORTION AT BACK OF SEAL.



SECTION @ FASTENER

GENERAL NOTES:

1. SEALS LOCATION SHOULD BE TAKEN FROM CONTRACT DRAWINGS.
2. SEALS ARE FURNISHED BY THE DEPARTMENT OF VETERANS AFFAIRS AND INSTALLED BY THE GENERAL CONTRACTOR.
3. SIZE OF THE SEAL SHALL BE DETERMINED BY THE VA.
4. MATERIAL IS CAST BRONZE.
5. DETAIL OF ANCHORAGE MUST BE PROVIDED BY A/E FOR ANCHORAGE IN ANY MATERIAL OTHER THAN SOLID MASONRY OR CONCRETE.



SEALS, EXTERIOR

NTS



Department of Veterans Affairs

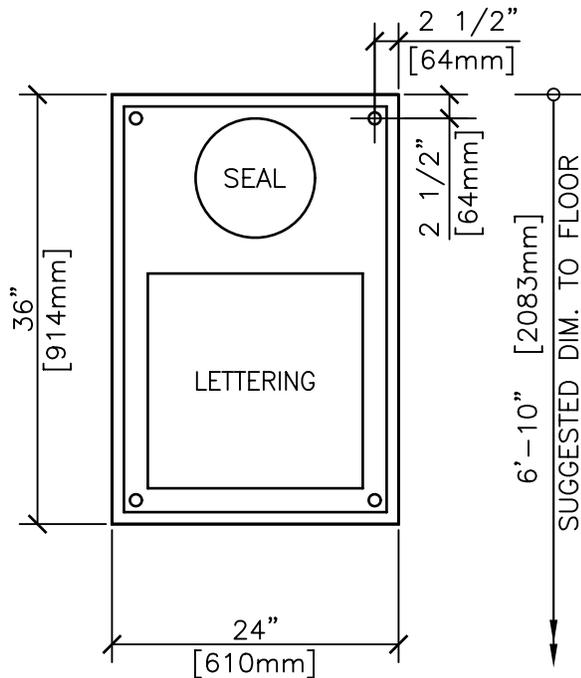
DETAIL TITLE / SEALS, EXTERIOR

SCALE :NONE

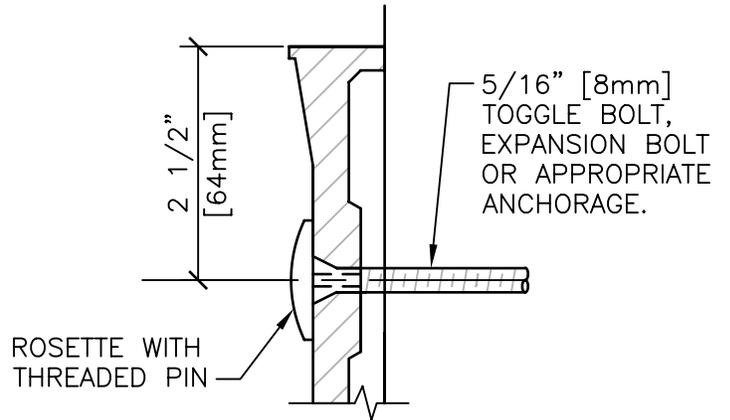
DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.:

SD101400-01.DWG



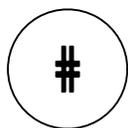
ELEVATION OF PLAQUE



DETAIL OF FASTENING

GENERAL NOTES:

1. LOCATE PLAQUE IN LOBBY OR A LOCATION SELECTED BY THE PROJECT DIRECTOR.
2. PLAQUE WILL BE FURNISHED BY THE VA & INSTALLED BY THE GENERAL CONTRACTOR.



DEDICATION PLAQUE

NTS



Department of
Veterans Affairs

DETAIL TITLE / DEDICATION PLAQUE

SCALE :NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.: SD101400-02.DWG

HOLES CUT IN CONCRETE OR SOLID MASONRY AND FILLED WITH MORTAR IMMEDIATELY BEFORE SETTING SEAL.

3/8" [10mm] THREADED STUDS SCREWED INTO SOLID METAL PORTION ON BACK OF SEAL. SEAL THEN TO BE POSITIONED INTO HOLES WHILE MORTAR IS STILL DAMP. PROVIDE BRONZE BOLTS FOR BRONZE SEAL.

2" MIN.
[51mm]

PROVIDE SPECIAL DETAIL FOR ANCHORAGE WHERE SEAL IS ATTACHED TO OTHER MATERIAL.

EXTERIOR FACE OF CONCRETE OR SOLID MASONRY WALL.

SAME AS ABOVE

SOLID METAL PORTION ON BACK OF SEAL. DRILL AND TAP FOR STUDS - 3 LOCATIONS AS INDICATED ON ELEVATIONS.

FRONT FACE OF SEAL
MEDIUM PEBBLE FINISH - ALL BACKGROUND AREAS

PROFILE OF SEAL

LOCATION OF SOLID METAL PORTION ON BACK OF SEAL.

LOCATION OF SOLID METAL PORTION ON BACK OF SEAL.

ROPE BORDER CONTINUOUS



LOCATION OF SOLID METAL PORTION ON BACK OF SEAL.

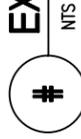
SECTION THROUGH SEAL SHOWING METHOD OF ATTACHMENT

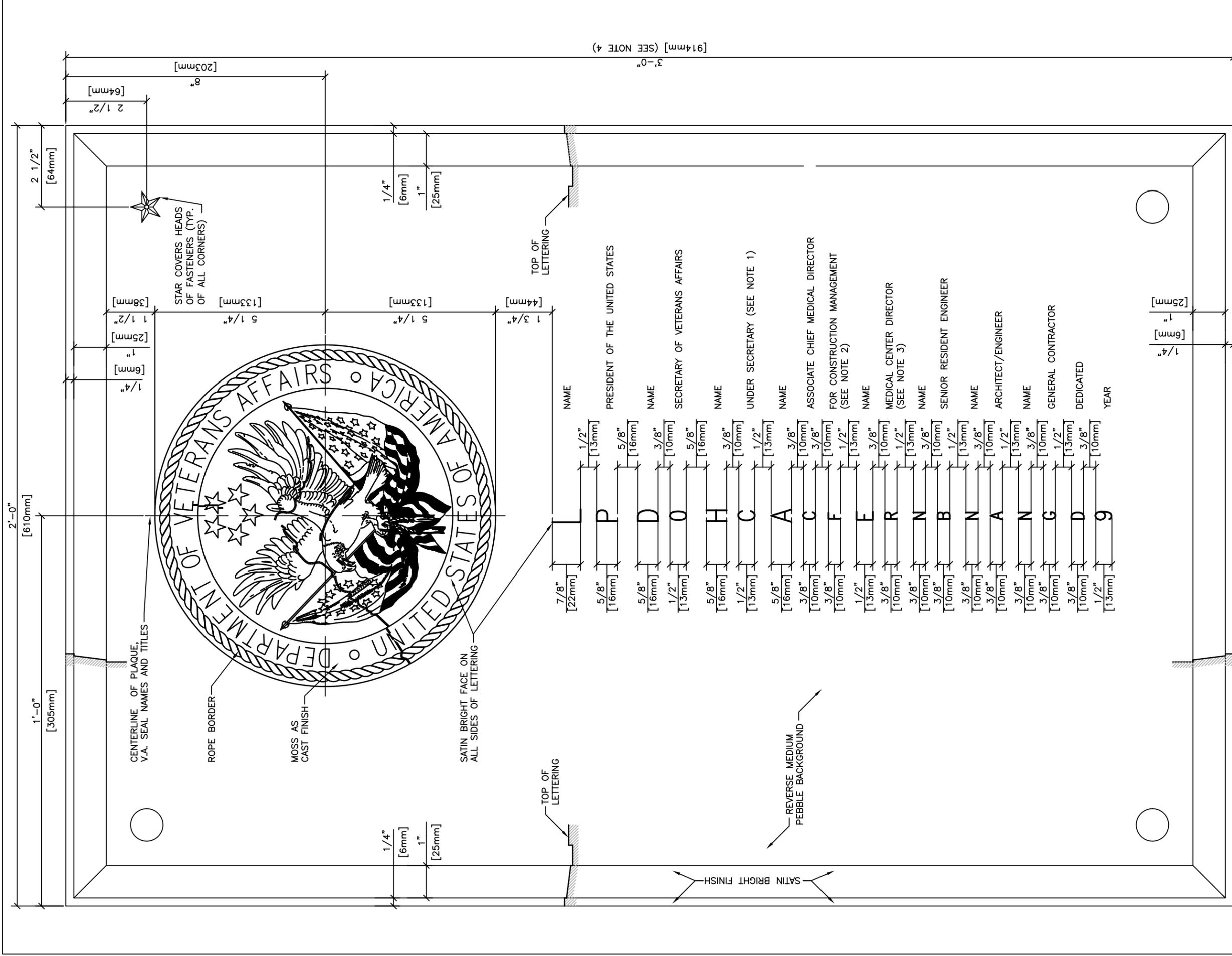
ELEVATION OF 30" [762mm], 36" [914mm], AND 48" [1219mm] DIAMETER SEALS

NOTES:

1. MATERIAL:
BRONZE: FEDERAL SPECIFICATION QQ-C-535B, COMPOSITION 2.
2. WORKMANSHIP:
CASTINGS SHALL BE OF UNIFORM QUALITY AND CONDITION, FREE FROM INJURIOUS BLOWHOLES AND POROSITY, CRACKS AND OTHER DEFECTS AND NOT WARPED OR DISTORTED, WELL FINISHED, FREE FROM BURRS, SHARP EDGES, SCRATCHES AND DEFECTS THAT MAY AFFECT APPEARANCE OR SERVICEABILITY. CASTINGS SHALL NOT BE REPAIRED, PLUGGED, WELDED, OR BURNED.
3. FINISH:
FINISH TO BE DETAILED, HAND CHASED FOR TRUE ALIGNMENT, FILED, BELT POLISHED SIDES, GROUND SMOOTH, RAISED SURFACES AND BORDERS, SUCH AS ALL RAISED PORTIONS OF SEAL, EAGLE, SHIELD, LETTERING, ROPE BORDER ETC., TO BE POLISHED AND BUFFED TO A BRIGHT SATIN FINISH, BACKGROUND TEXTURES TO BE REVERSE MEDIUM PEBBLE BACKGROUND, FINE PEBBLE BACKGROUND, MOSS AS CAST, AS INDICATED.
4. COATING:
BRONZE: CHEMICALLY OXIDIZE TO A STATUARY MEDIUM COLOR AND FINISH WITH ONE COAT OF CLEAR PROTECTIVE EXTERIOR METAL LACQUER.
5. FASTENERS:
CORROSION RESISTING METAL COMPATIBLE WITH MATERIAL OF CASTING.

EXTERIOR SEALS DETAIL





DEDICATION PLAQUE STANDARD DETAIL

NTS

Department of
Veterans Affairs

DETAIL TITLE / DEDICATION PLAQUE STANDARD DETAIL

SCALE : NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.: SD101400-04.DWG

DEDICATION PLAQUE NOTES:

1. UNDER SECRETARY FOR HEALTH, OR UNDER SECRETARY FOR BENEFITS, OR BOTH MAY BE REQUIRED.
2. SOME PLAQUES WILL NOT INCLUDE ASSOCIATE CHIEF MEDICAL DIRECTOR FOR OFM CONSTRUCTION MANAGEMENT. ADJUST SPACING BETWEEN LINES OF TEXT AND INCREASE DIMENSION BELOW LAST LINE TO ACCOMMODATE THE NUMBER OF LINES OF TEXT.
3. MEDICAL CENTER DIRECTOR, REGIONAL VISN OFFICE DIRECTOR, REGIONAL OFFICE AND INSURANCE CENTER DIRECTOR, OR MEDICAL AND REGIONAL OFFICE CENTER DIRECTOR MAY BE REQUIRED. LONG TEXT LINES MAY REQUIRE TWO LINES AND ADJUSTMENT OF SPACING.
4. DEDICATION PLAQUES FOR SATELLITE OUTPATIENT CLINICS WILL OMIT THE SENIOR RESIDENT ENGINEER, ARCHITECT/ENGINEER, AND GENERAL CONTRACTOR. THE OVERALL HEIGHT OF THE PLAQUE SHALL BE 30 INCHES [762mm].
5. MATERIAL: THE PLAQUE SHALL BE CAST OF A LEAD FREE TIN BRONZE, SUCH AS C90300 (NAVY "G" BRONZE) OR SIMILAR ALLOY APPROVED BY V.A.
6. WORKMANSHIP: CASTINGS SHALL BE OF UNIFORM QUALITY AND CONDITION, FREE FROM INJURIOUS BLOW HOLES AND POROSITY, CRACKS, AND OTHER DEFECTS AND NOT WARPED OR DISTORTED, WELL FINISHED, FREE FROM BURRS, SHARP EDGES, SCRATCHES, AND DEFECTS THAT MAY AFFECT APPEARANCE OR SERVICE-ABILITY. CASTINGS SHALL NOT BE REPAIRED, PLUGGED, WELDED, OR BURNED.
7. FINISH: FINISH TO BE DETAILED, HAND CHASED FOR TRUE ALIGNMENT FILED, BELT POLISHED SIDES GROUND SMOOTH, RAISED SURFACES AND BORDERS TO BE POLISHED AND BUFFED TO A BRIGHT SATIN FINISH, BACKGROUND TEXTURES TO BE REVERSE MEDIUM PEBBLE BACKGROUND, FINE PEBBLE BACKGROUND, MOSS AS CAST, AS INDICATED.
8. COATING: BRONZE TO BE CHEMICALLY OXIDIZED TO A STATUARY MEDIUM COLOR AND FINISH WITH ONE COAT OF CLEAR PROTECTIVE EXTERIOR METAL LACQUER.
9. FASTENERS: CORROSION RESISTANT METAL COMPARABLE WITH MATERIAL OR CASTING.
10. TEXT: INFORMATION FOR FILLING OUT PLAQUE WILL BE PROVIDED BY THE DEPARTMENT OF VETERANS AFFAIRS AT TIME OF ORDER FOR INDIVIDUAL PLAQUE. PRIOR TO CASTING, RUBBINGS WILL BE PROVIDED TO VA FOR REVIEW.
11. THE USE OF METRIC DIMENSIONING IS ALLOWED, PROVIDED THAT THE METRIC EQUIVALENT IS COMPARABLE AND MEETS FEDERAL STANDARDS FOR CONVERSION.



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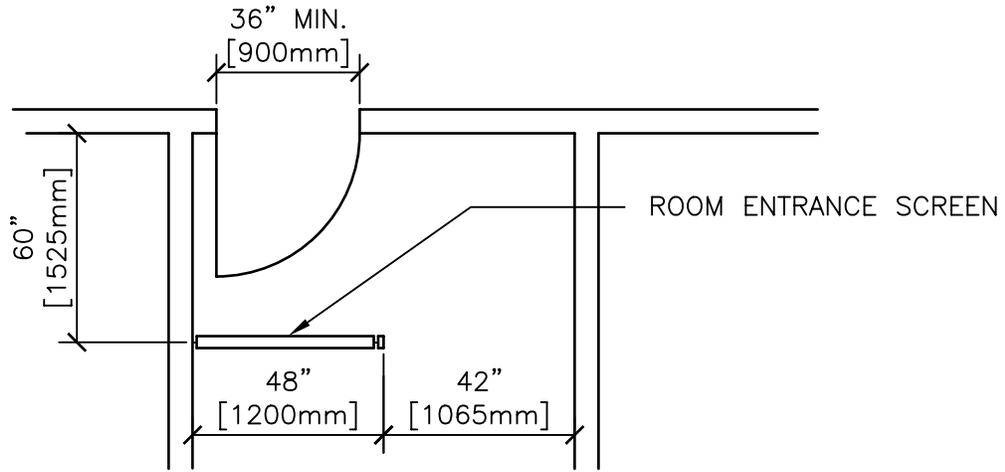
DETAIL TITLE / DEDICATION PLAQUE DETAIL NOTES

SCALE :NONE

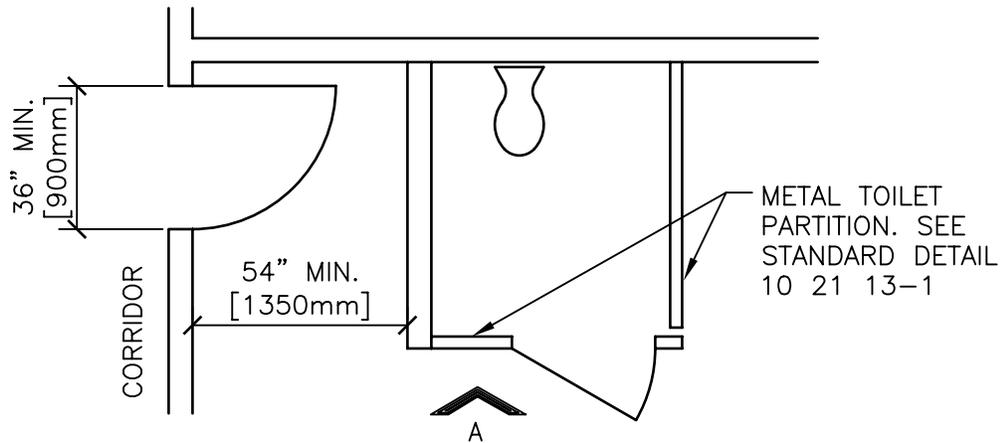
DATE ISSUED: DECEMBER 2008

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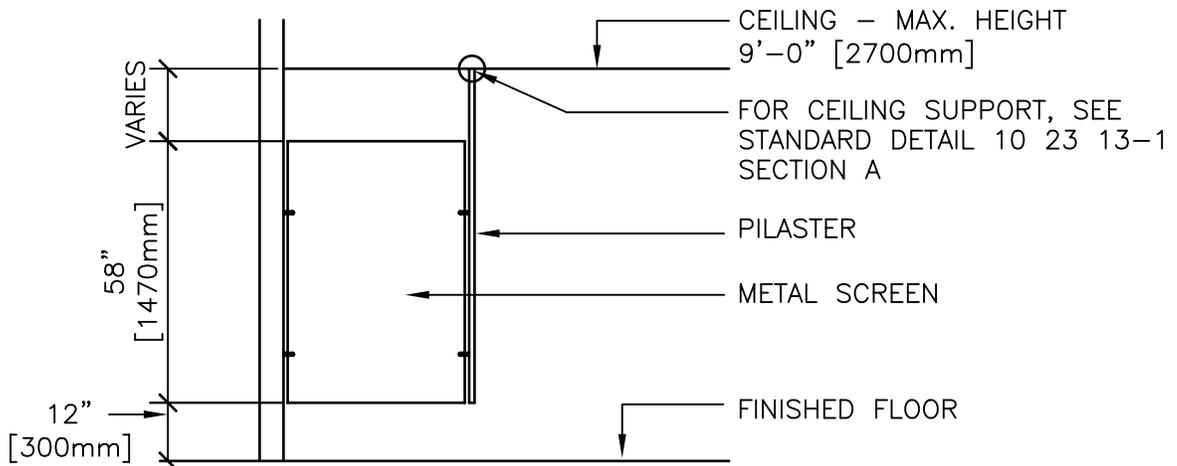
PLAN A



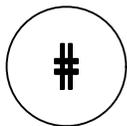
PLAN B



ELEVATION A



ENTRANCE SCREENS FOR WHEELCHAIR TOILETS



NTS



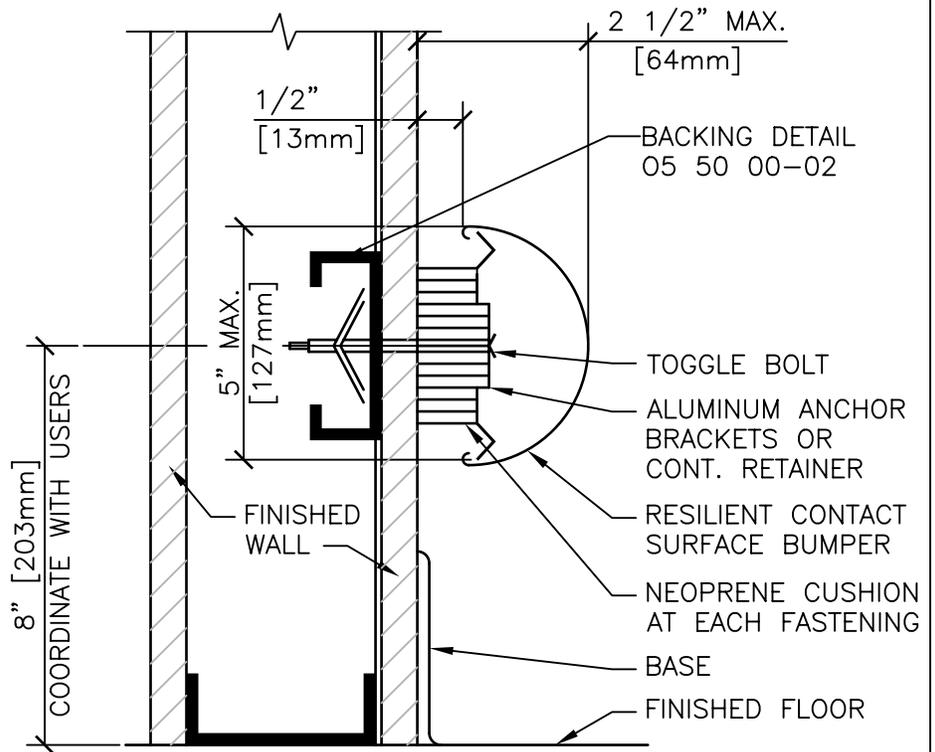
Department of
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DETAIL TITLE / ENTRANCE SCREENS FOR
WHEELCHAIR TOILETS

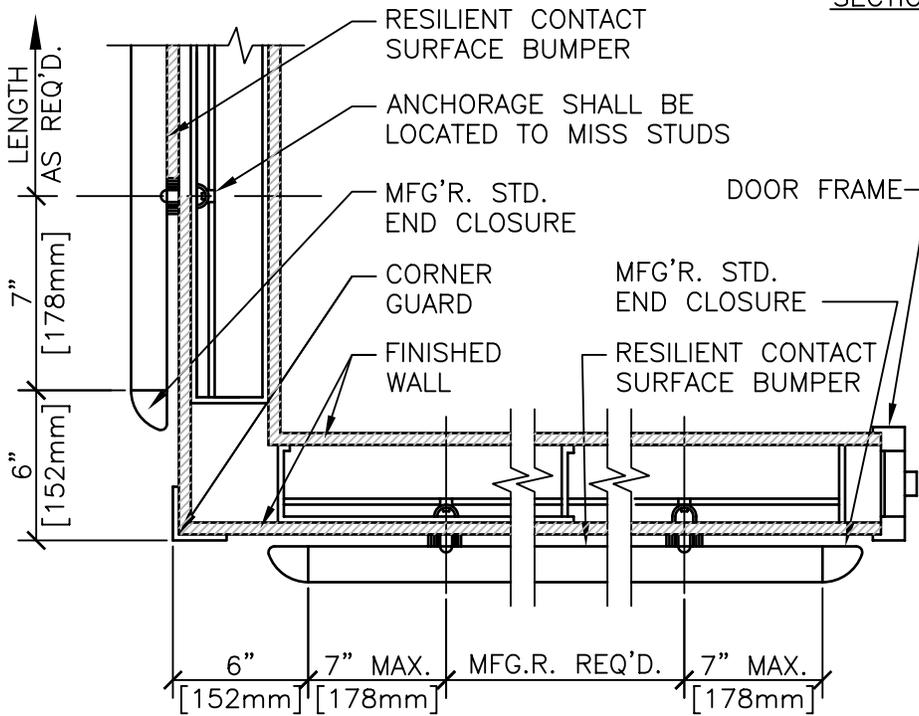
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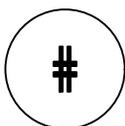
CAD DETAIL NO.: SD102113-02.DWG



SECTION



PLAN



WALL GUARDS

NTS



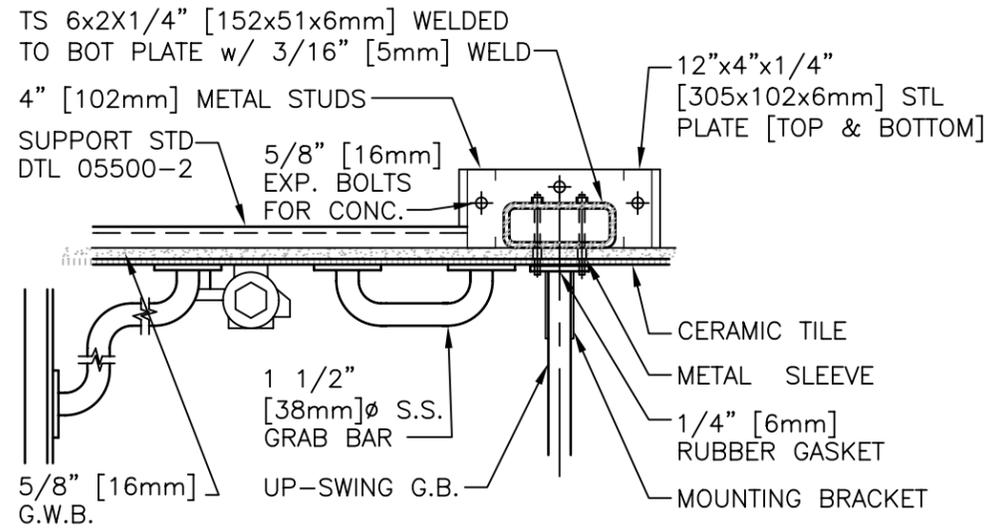
Department of
Veterans Affairs

DETAIL TITLE / WALL GUARDS

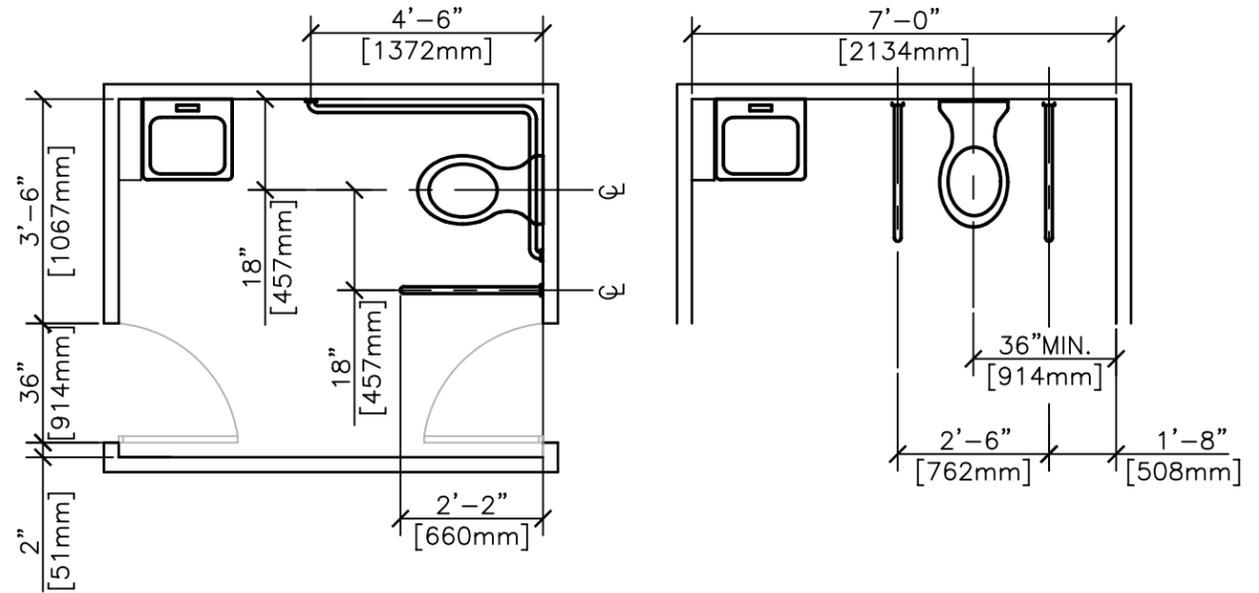
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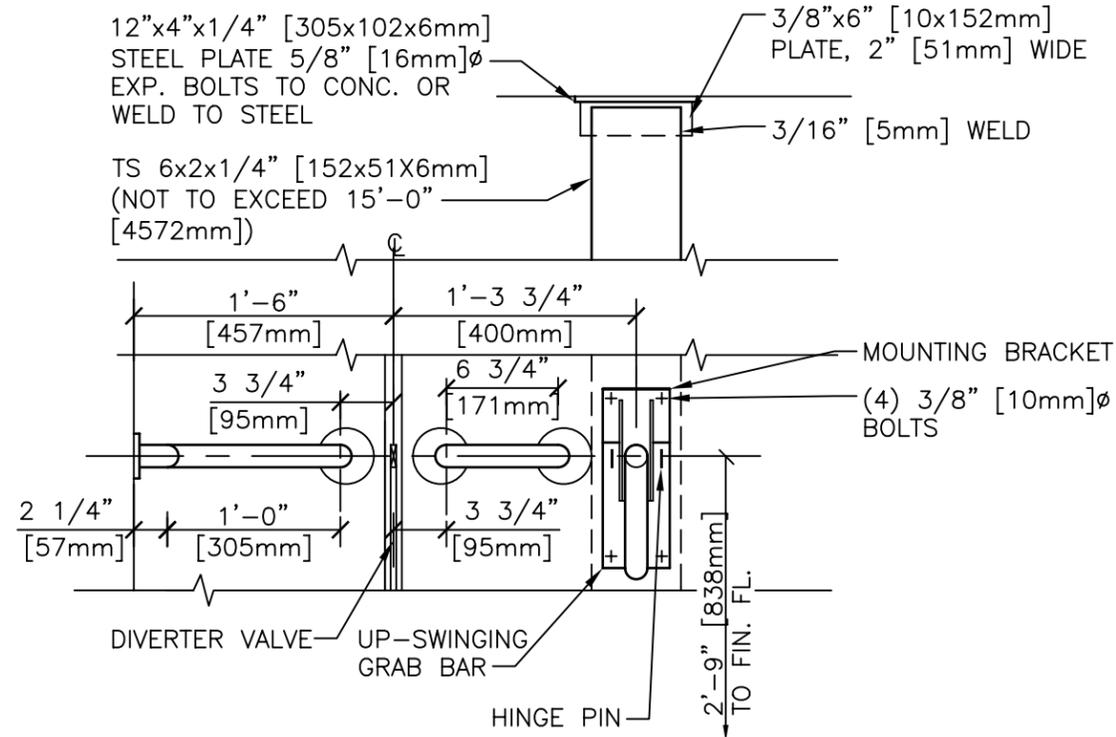
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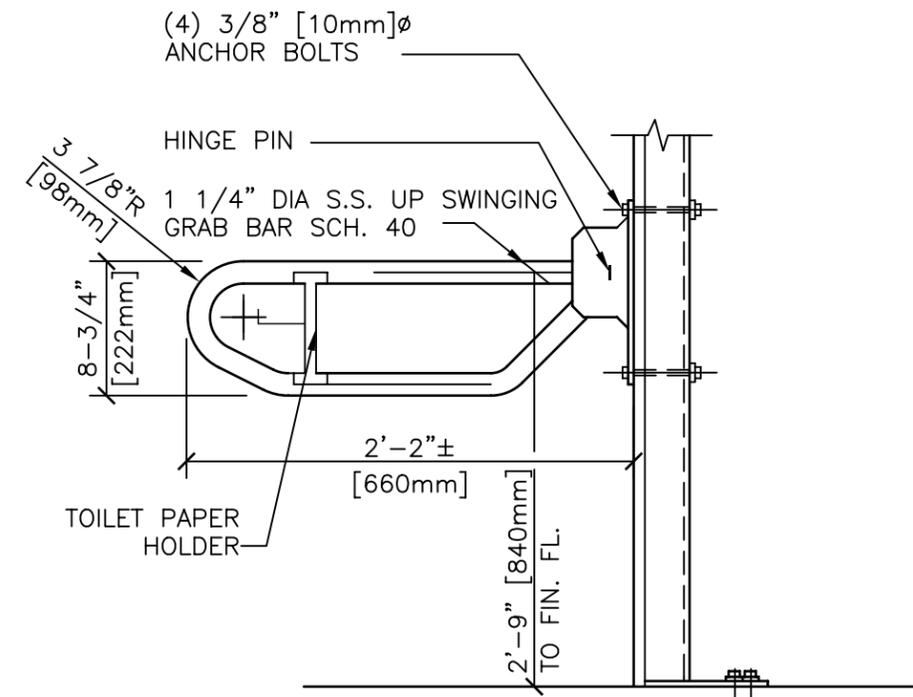
PLAN SHOWING THE STEEL TUBE & PLATE FOR ANCHORING THE UP-SWING GRAB BAR



PLAN OF TOILET ROOM SHOWING RELATIONSHIP OF FIXTURES



ELEVATION SHOWING POSITION OF UP-SWINGING GRAB BAR



SIDE ELEVATION OF UP-SWINGING GRAB BAR

GENERAL NOTES:

1. INSTALLATION AS SHOWN IS FOR WATER CLOSET WITH DIVERTER VALVE.

UP-SWING GRAB BAR
NTS

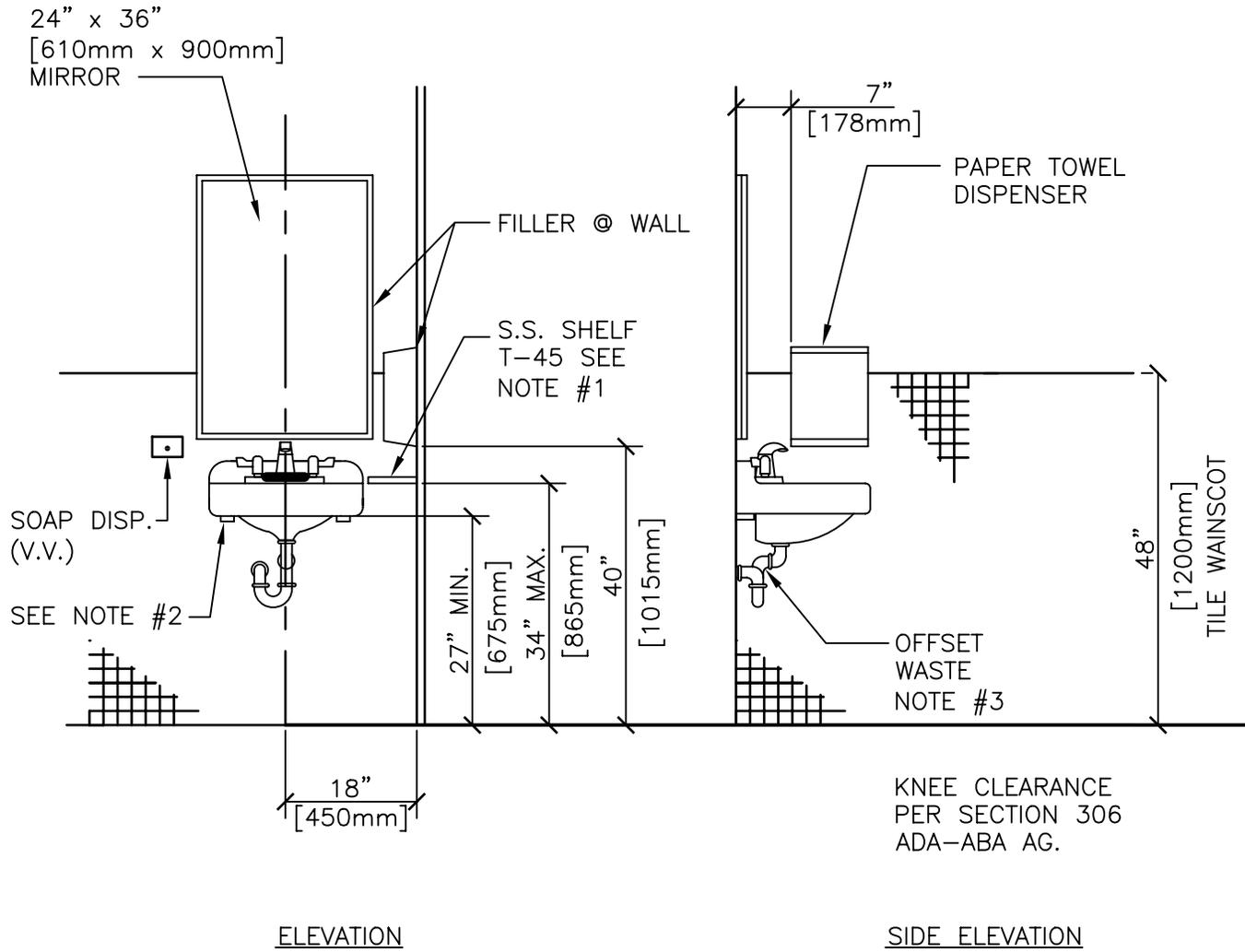
DETAIL TITLE / UP-SWING GRAB BAR

SCALE : NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.: SD102800-02.DWG





1. SHELF IF IN EQUIPMENT LIST 7610; SEE DETAIL 10 28 00-4
2. LAVATORY, WITH WRIST OR SENSOR CONTROL FAUCET
3. INSULATE HOT SUPPLY AND WASTE.



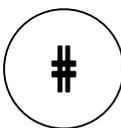
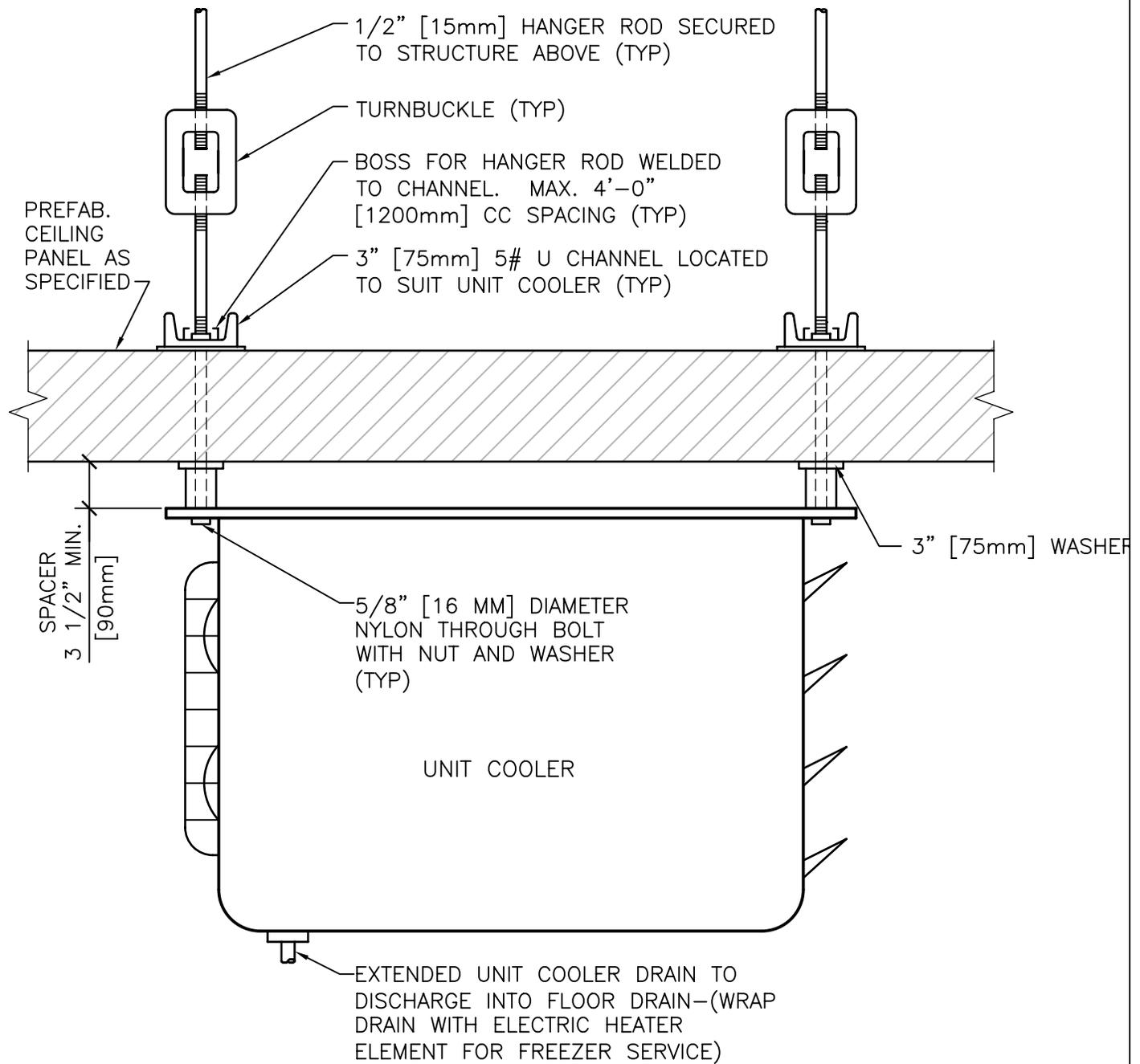
Department of
Veterans Affairs

DETAIL TITLE / ACCESSIBLE LAVATORY

SCALE : NONE

DATE ISSUED :DECEMBER 2008

CADD DETAIL NO. : SD102800-03.DWG



SUPPORT FOR UNIT COOLER

NTS



Department of
Veterans Affairs

DETAIL TITLE / SUPPORT FOR UNIT COOLER

SCALE :NONE

DATE ISSUED : DECEMBER 2008

CADD DETAIL NO. : SD114121-01.DWG

NOTES FOR AIR COOLED REFRIGERATION SYSTEM

1. UNIT COOLER FAN(S) SHALL RUN CONTINUOUSLY, EXCEPT WHEN IT IS TURNED "OFF" BY A SWITCH MOUNTED ON THE UNIT COOLER. THIS SAME SWITCH SHALL ALSO DE-ENERGIZE THE LIQUID-LINE SOLENOID VALVE WHEN THE UNIT IS IN THE "OFF" POSITION..
2. ROOM THERMOSTAT FOR WALK-IN REFRIGERATOR OR FREEZER SHALL AUTOMATICALLY CONTROL THE LIQUID-LINE SOLENOID VALVE.
3. COMPRESSOR OPERATION SHALL BE CONTROLLED BY THE LOW PRESSURE SWITCH: HIGH PRESSURE CUTOUT SWITCH SHALL PREVENT THE COMPRESSOR FROM OPERATING UNDER EXCESSIVELY HIGH HEAD PRESSURE.
4. AIR COOLED CONDENSER SHALL BE INSTALLED WITH AN APPROVED METHOD OF MAINTAINING SUFFICIENT CONDENSING PRESSURE TO ASSURE SATISFACTORY OPERATION AT _____ DEGREES. F. [_____ DEGREES. C] AMBIENT TEMPERATURE.
5. WHEN EQUIPMENT SCHEDULE INDICATES ELECTRIC DEFROST, THE FOLLOWING CONTROLS SHALL ALSO BE PROVIDED:
 - A. DEFROST TYPE UNIT COOLER WITH HEATING ELEMENTS FOR EVAPORATOR COIL, DRAIN PAN AND DRAIN PIPING WITHIN THE LOW TEMPERATURE ROOM. DEFROST CYCLE SHALL BE AUTOMATICALLY CONTROLLED BY AN ELECTRIC CLOCK AND SHALL INCLUDE A SAFETY THERMOSTAT IN THE CONTROL CIRCUIT TO PREVENT OVERHEATING THE EVAPORATOR COIL.
 - B. THE AUTOMATIC TIMER FOR ELECTRIC DEFROST SHALL ALSO DE-ENERGIZE THE SOLENOID VALVE IN THE LIQUID REFRIGERANT LINE SERVING THE UNIT COOLER AND SHALL STOP THE UNIT COOLER FAN(S) DURING THE DEFROST CYCLE.
6. PROVIDE ADDITIONAL TEMPERATURE TRANSMITTER THAT SENDS HIGH TEMPERATURE ALARM INDICATION TO ECC.



Department of
Veterans Affairs

DETAIL TITLE / NOTES FOR AIR COOLED
REFRIGERATION SYSTEM

SCALE :NONE

DATE ISSUED :DECEMBER 2008

CADD DETAIL NO. : SD114121-02.DWG

NOTES FOR WATER COOLED REFRIGERATION SYSTEM

1. UNIT COOLER FAN(S) SHALL RUN CONTINUOUSLY, EXCEPT WHEN IT IS TURNED "OFF" BY A SWITCH MOUNTED ON THE UNIT COOLER. THIS SAME SWITCH SHALL ALSO DE-ENERGIZE THE LIQUID-LINE SOLENOID VALVE WHEN THE UNIT IS IN THE "OFF" POSITION.
2. ROOM THERMOSTAT FOR WALK-IN REFRIGERATOR OR FREEZER SHALL AUTOMATICALLY CONTROL THE LIQUID-LINE SOLENOID VALVE.
3. COMPRESSOR OPERATION SHALL BE CONTROLLED BY THE LOW PRESSURE SWITCH: HIGH PRESSURE CUTOUT SWITCH SHALL PREVENT THE COMPRESSOR FROM OPERATING UNDER EXCESSIVELY HIGH HEAD PRESSURE.
4. FLOW OF WATER THROUGH CONDENSER SHALL BE CONTROLLED BY WATER REGULATING VALVE INSTALLED IN THE CONDENSER DISCHARGE LINE AND SHALL MODULATE IN RESPONSE TO REFRIGERANT CONDENSING PRESSURE.
5. WHEN EQUIPMENT SCHEDULE INDICATES ELECTRIC DEFROST, THE FOLLOWING CONTROLS SHALL ALSO BE PROVIDED:
 - A. DEFROST TYPE UNIT COOLER WITH HEATING ELEMENTS FOR EVAPORATOR COIL, DRAIN PAN AND DRAIN PIPING WITHIN THE LOW TEMPERATURE ROOM. DEFROST CYCLE SHALL BE AUTOMATICALLY CONTROLLED BY AN ELECTRIC CLOCK AND SHALL INCLUDE A SAFETY THERMOSTAT IN THE CONTROL CIRCUIT TO PREVENT OVERHEATING THE EVAPORATOR COIL.
 - B. THE AUTOMATIC TIMER FOR ELECTRIC DEFROST SHALL ALSO DE-ENERGIZE THE SOLENOID VALVE IN THE LIQUID REFRIGERANT LINE SERVING THE UNIT COOLER AND SHALL STOP THE UNIT COOLER FAN(S) DURING THE DEFROST CYCLE.
6. PROVIDE ADDITIONAL TEMPERATURE TRANSMITTER THAT SENDS HIGH TEMPERATURE ALARM INDICATION TO ECC.



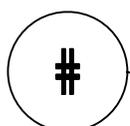
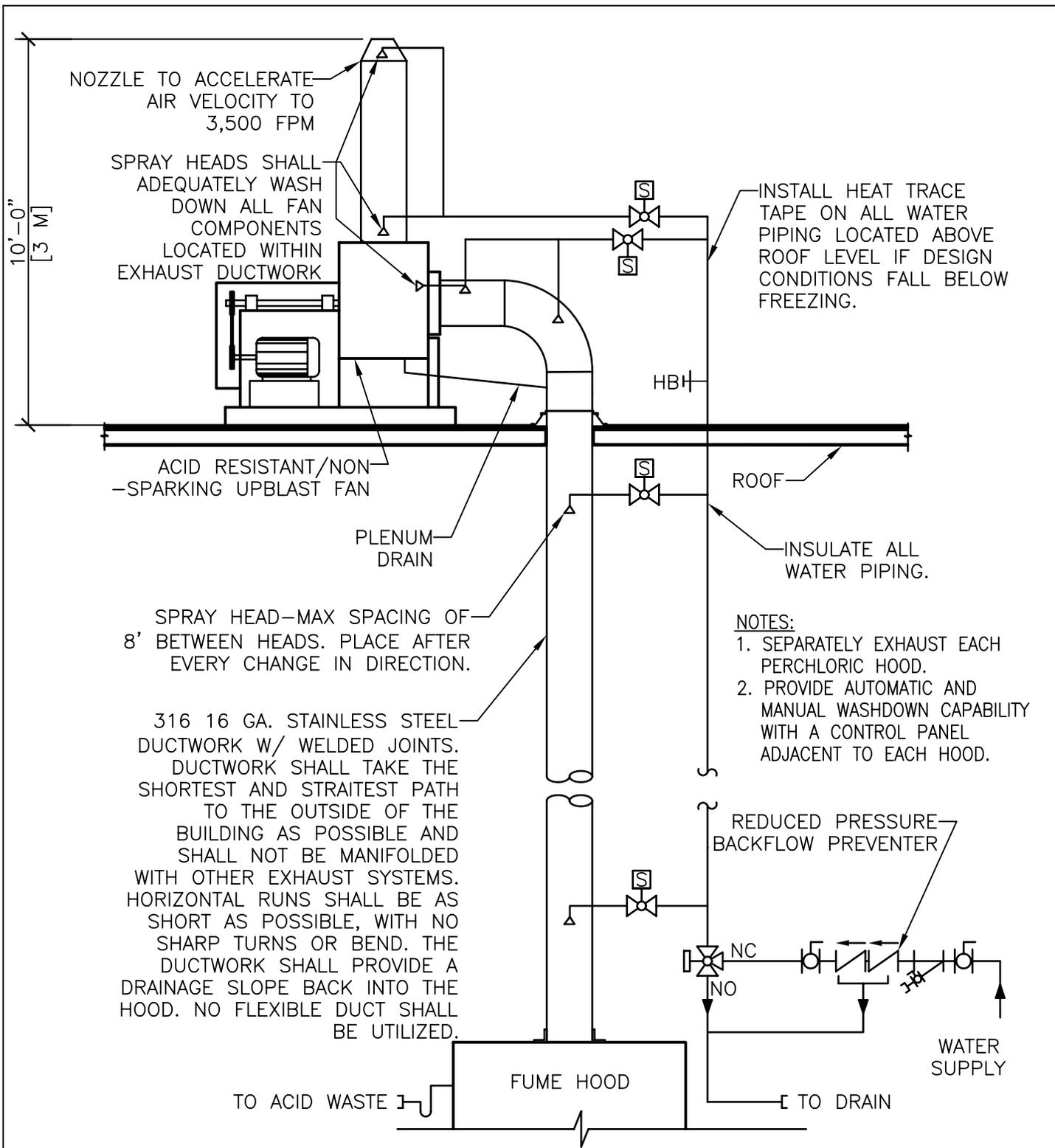
Department of
Veterans Affairs

DETAIL TITLE / NOTES FOR WATER COOLED
REFRIGERATION SYSTEM

SCALE :NONE

DATE ISSUED :DECEMBER 2008

CADD DETAIL NO. : SD114121-03.DWG



PERCHLORIC ACID HOOD EXHAUST SYSTEM

NTS



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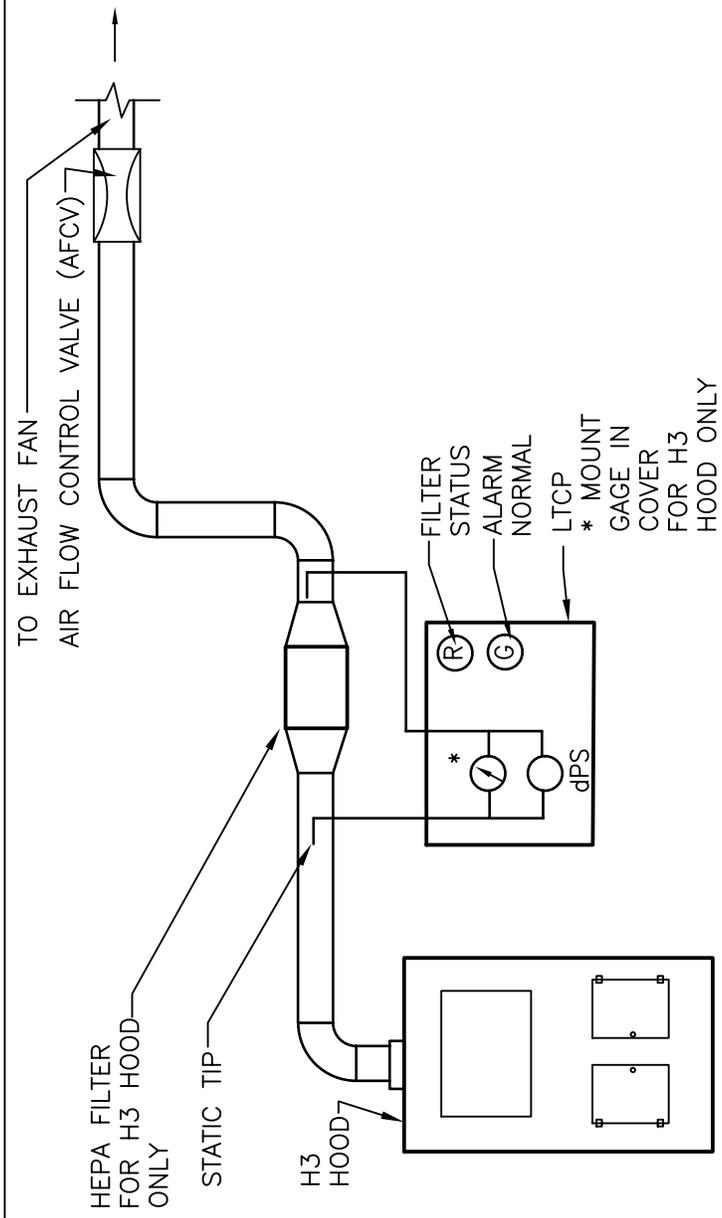
DETAIL TITLE / PERCHLORIC ACID HOOD EXHAUST SYSTEM

SCALE :NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.:

SD115313-01.DWG



LEGEND



MAGNEHELIC GAGE

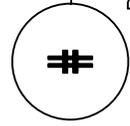
dPS

DIFFERENTIAL PRESSURE SWITCH

NOTES:

- 1. HOOD EQUIPPED WITH INTEGRAL BYPASS, IE CONSTANT VOLUME
- 2. SEE STACK DETAIL

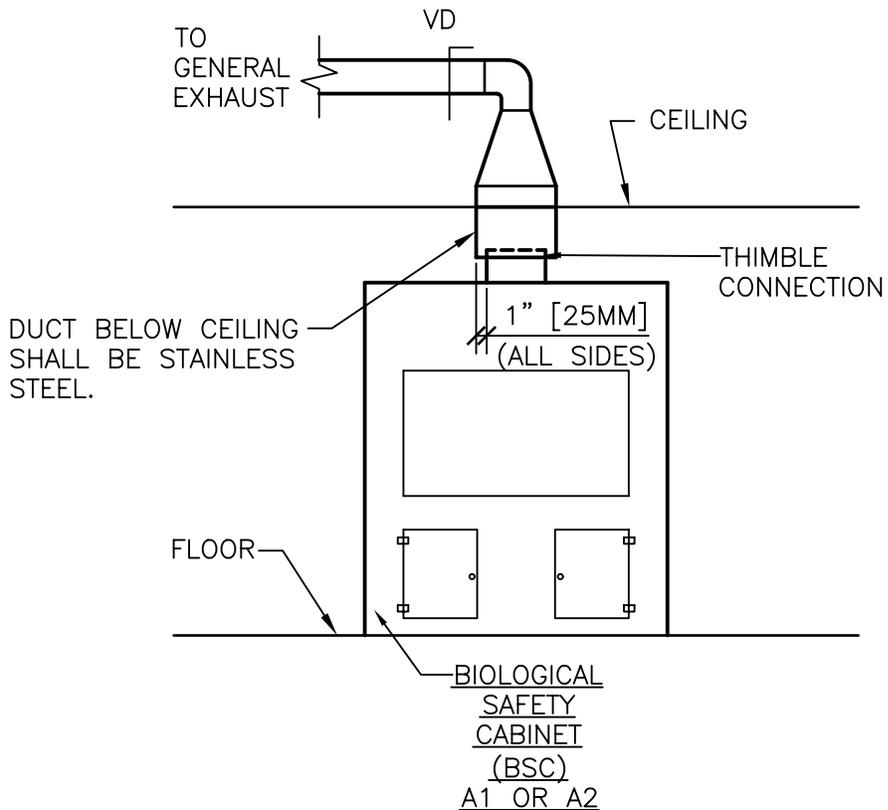
H-3 AND H-7 HOOD EXHAUST SYSTEM



NTS

DESIGNERS NOTES:

- 1. SEE HVAC DESIGN MANUAL FOR ADDITIONAL REQUIREMENTS.
- 2. H-3 HOODS CAN BE GROUPED INTO A SINGLE EXHAUST FAN
- 3. H-7 HOODS CAN BE GROUPED INTO A SINGLE EXHAUST FAN



BIOLOGICAL SAFETY CABINET EXHAUST SYSTEM (CLASS II TYPE A1 OR A2)

#

NTS

DESIGNER'S NOTES:

1. COORDINATE SIZE AND TYPE OF BIOLOGICAL SAFETY CABINET (BSC) WITH THE ARCHITECTURAL EQUIPMENT DRAWINGS.
2. ESTABLISH EXHAUST REQUIREMENTS AND CHARACTERISTICS OF THE BSC BASED ON PROJECT PROGRAM AND VA HVAC DESIGN MANUAL.



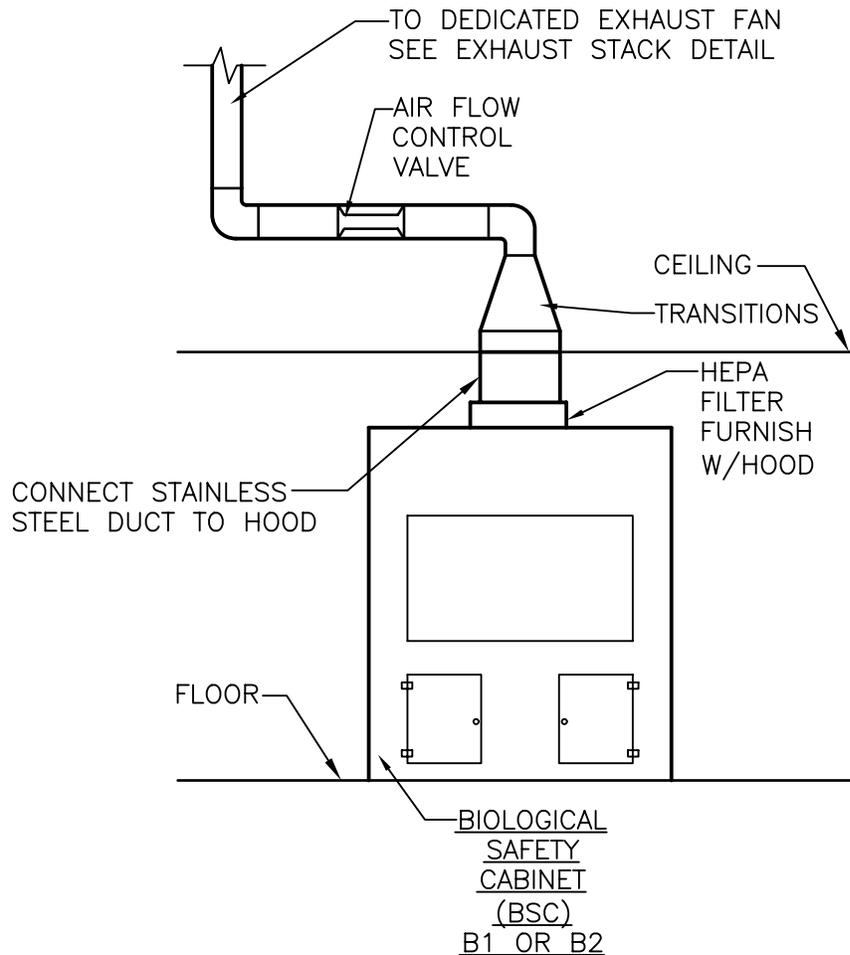
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Veterans Affairs

DETAIL TITLE / BIOLOGICAL SAFETY CABINET EXHAUST SYSTEM

SCALE :NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.: SD115353-01.DWG



BIOLOGICAL SAFETY CABINET EXHAUST SYSTEM (CLASS II TYPE B1 OR B2)

#

NTS

DESIGNER'S NOTES:

1. COORDINATE SIZE AND TYPE OF BIOLOGICAL SAFETY CABINET (BSC) WITH THE ARCHITECTURAL EQUIPMENT DRAWINGS.
2. ESTABLISH EXHAUST REQUIREMENTS AND CHARACTERISTICS OF THE BSC BASED ON PROJECT PROGRAM AND VA HVAC DESIGN MANUAL.



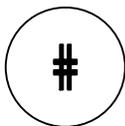
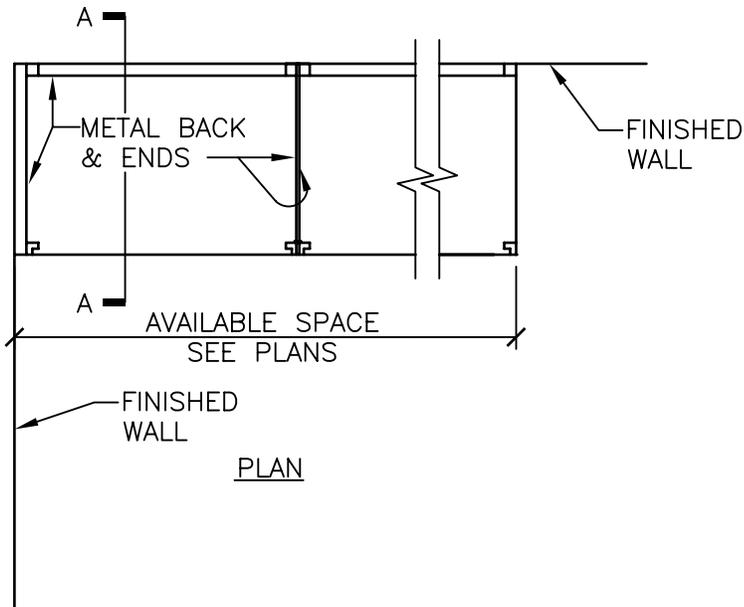
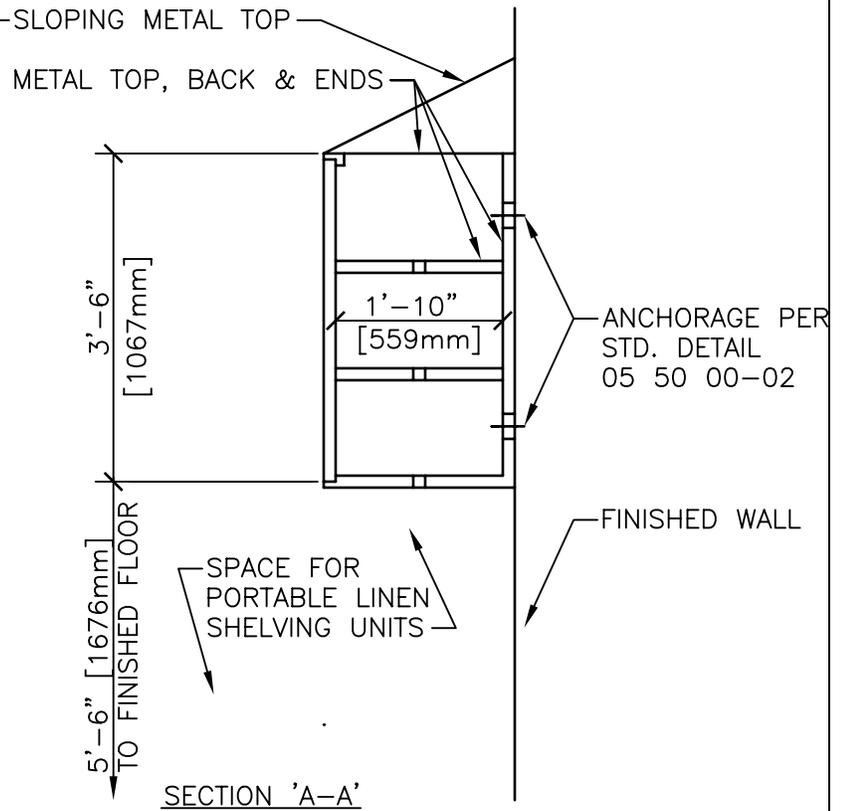
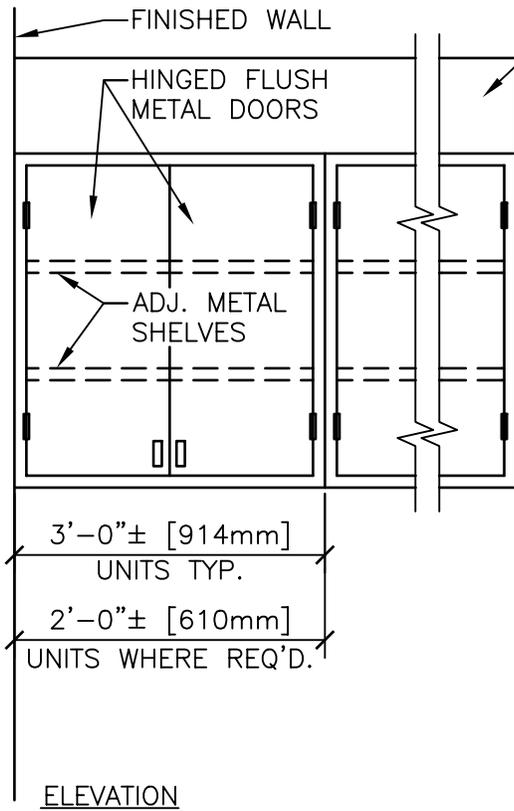
Department of
Veterans Affairs

DETAIL TITLE / BIOLOGICAL SAFETY CABINET EXHAUST SYSTEM

SCALE :NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.: SD115353-02.DWG



WALL CABINET - TYPE 5B

NTS



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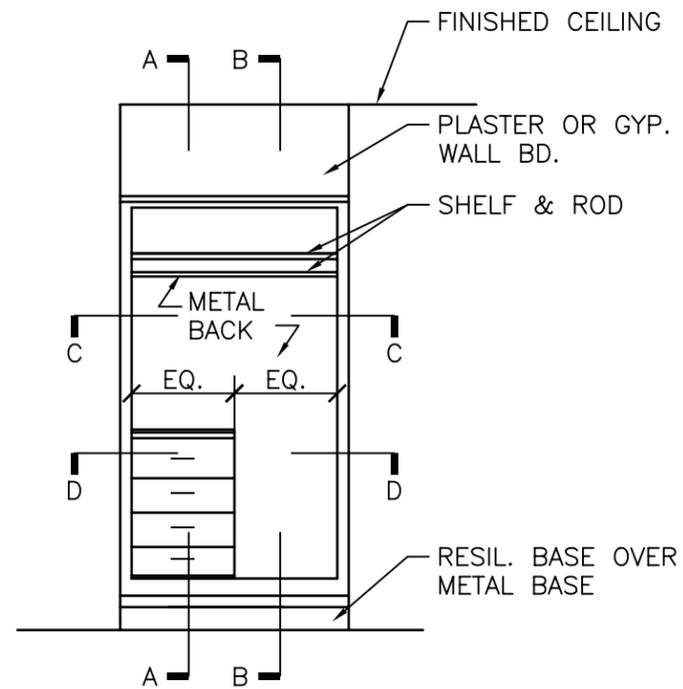
DETAIL TITLE / WALL CABINET - TYPE 5B

SCALE :NONE

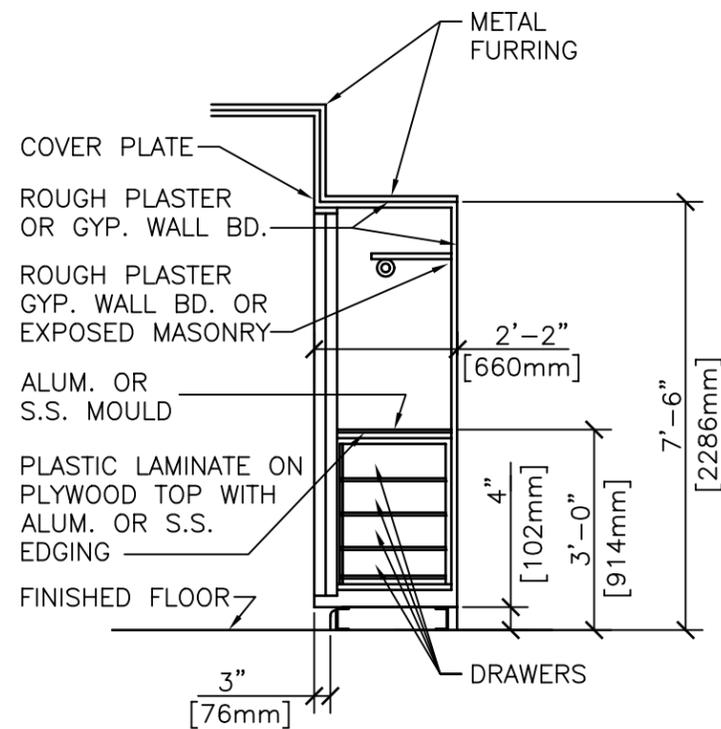
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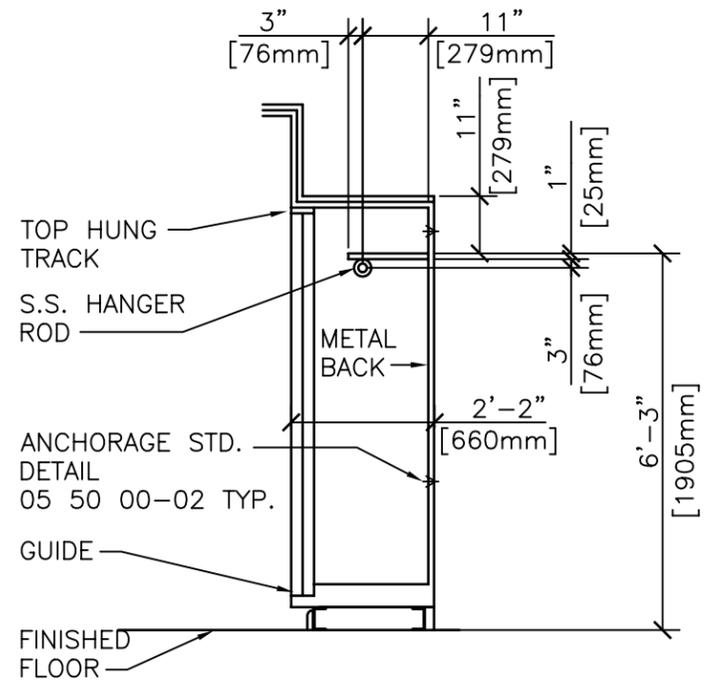
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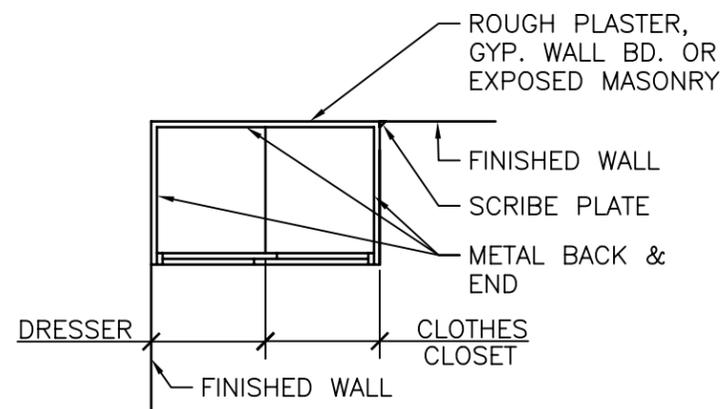
ELEVATION
(WITH DOORS REMOVED)



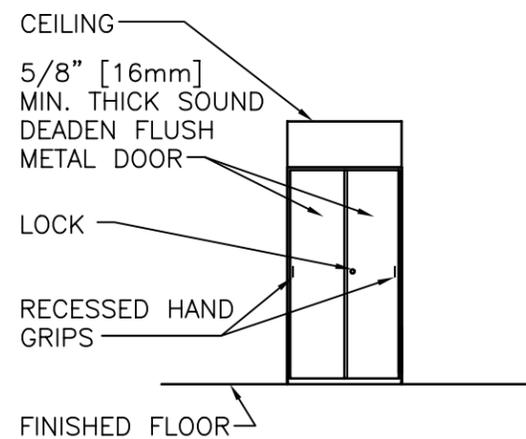
SECTION 'A-A'



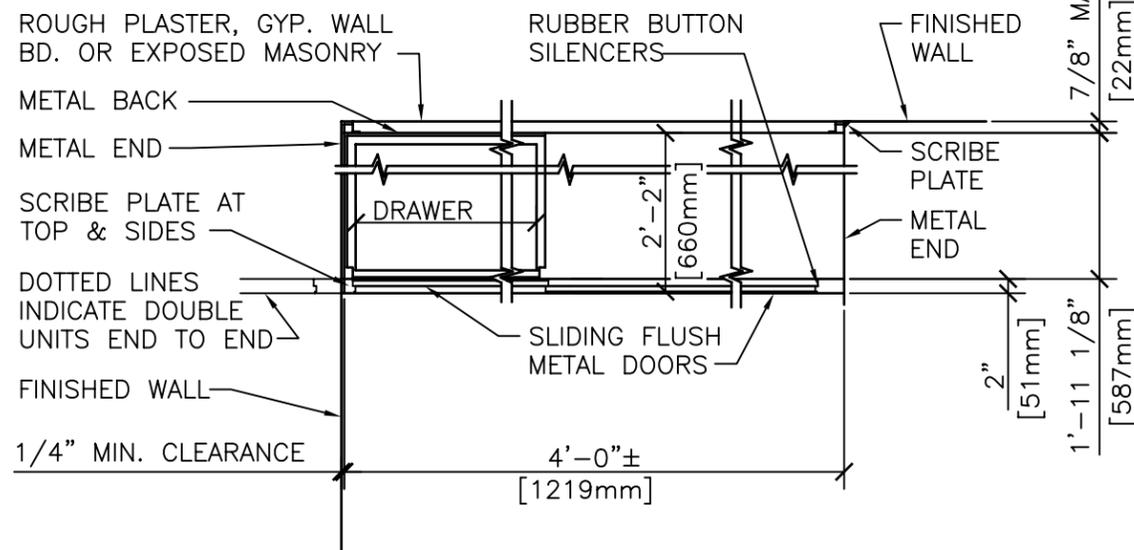
SECTION 'B-B'



PLAN C



ELEVATION OF
SLIDING DOORS

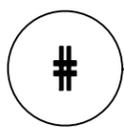


DETAIL TITLE / WARDROBE CABINET - TYPE 22G

SCALE : NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.: SD123100-02.DWG

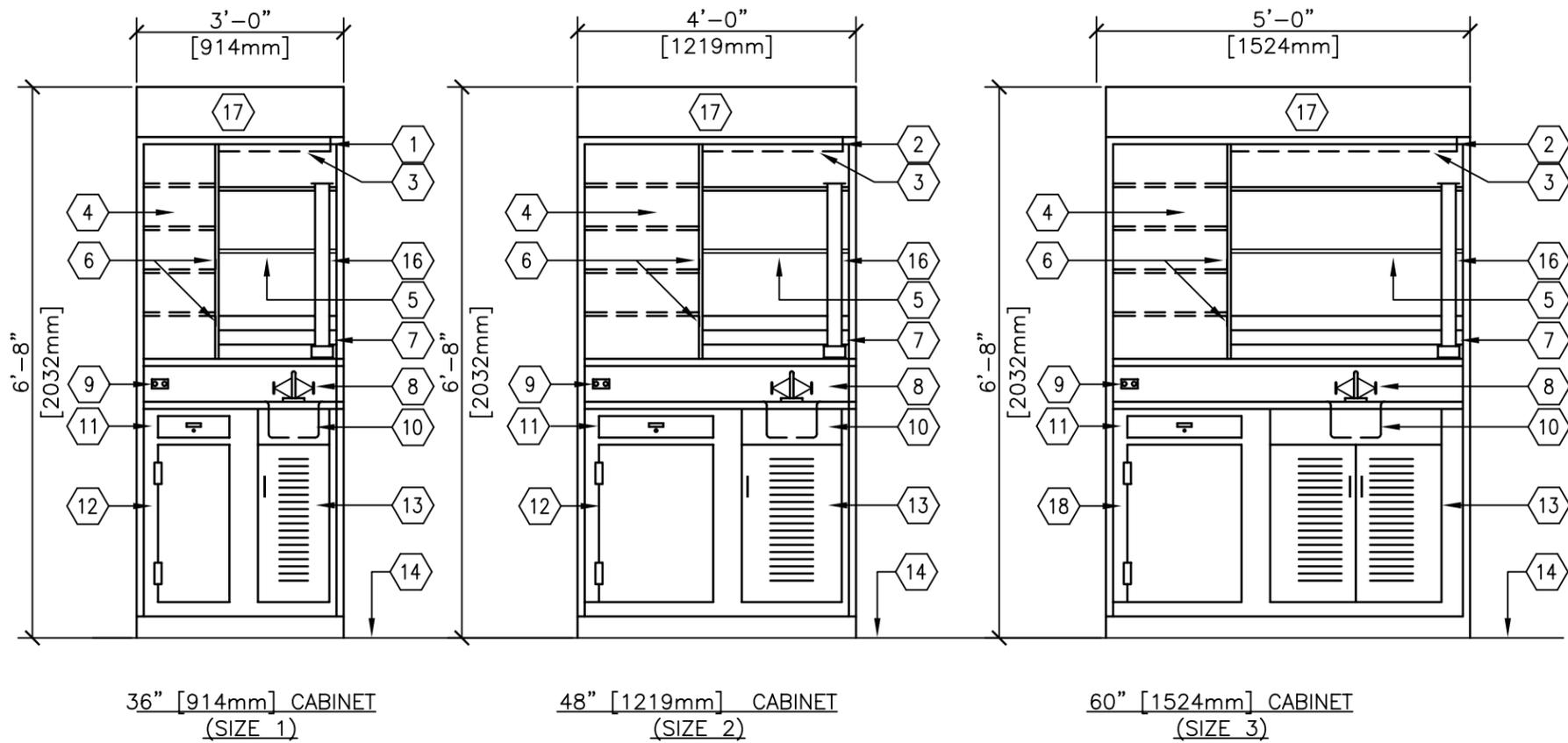


WARDROBE CABINET - TYPE 5A

NTS



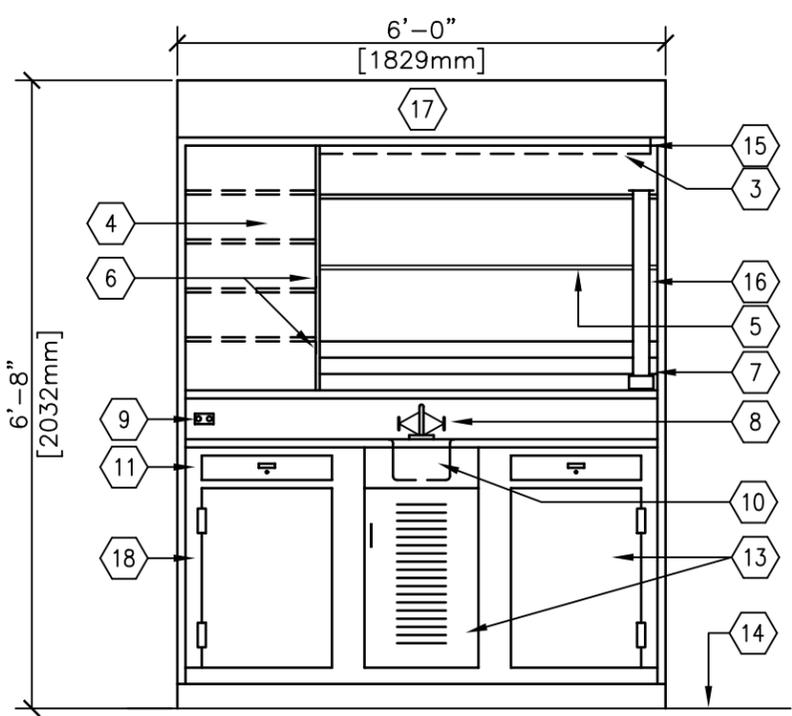
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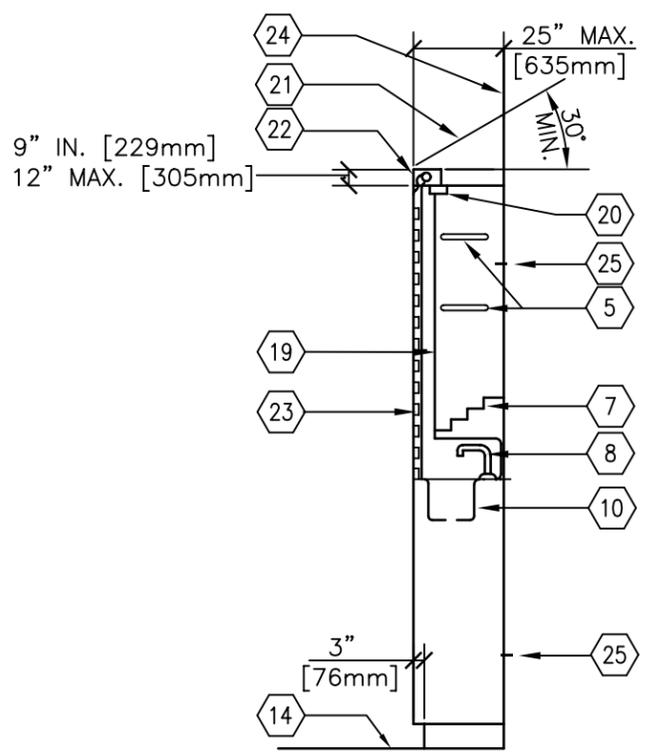
36" [914mm] CABINET
(SIZE 1)

48" [1219mm] CABINET
(SIZE 2)

60" [1524mm] CABINET
(SIZE 3)



72" [1829mm] CABINET
(SIZE 4)



TYPICAL SECTION

KEYED NOTES

1. ONE TUBE 18" [457mm] LONG WITH PLASTIC LENS
2. ONE TUBE 24" [610mm] LONG WITH PLASTIC LENS
3. FLUORESCENT LIGHT
4. NARCOTICS LOCKER WITH ADJUSTABLE MET SHELVES
5. ADJUSTABLE METAL SHELVES
6. OUTER & INNER DOOR LOCKS
7. TIERED MEDICINE SHELF
8. SWING FAUCET
9. DUPLEX OUTLET
10. SINK
11. DRAWER WITH LOCK
12. REFRIGERATOR 2.5 CU FT MIN.
13. STORAGE CABINET
14. FINISHED FLOOR
15. ONE TUBE 24" [610mm] LONG, OR ONE TUBE 48" [1219mm] LONG WITH PLASTIC LENS.
16. CUP DISPENSER.
17. HOOD
18. REFRIGERATOR 3.5 CU. FT. MIN.
19. MEDICINE CARD RACK.
20. MFR. SHALL PROVIDE STD. SIZE LIGHT TO MEET PROPER RECOMMENDED REQUIREMENTS.
21. SLOPING METAL TOP OR FURRED-IN CABINET (TO BE DETERMINED BY ARCH).
22. HOOD FOR DOOR. MECHANISM IN HOOD MUST BE ACCESSIBLE FOR REPAIRS. NOTE: DOOR MUST COIL UP IN HOOD.
23. ROLL-UP DOOR ALUM. DOOR WITH LOCKING HANDLE (DOOR DROPS TO COUNTER TOP IN DOWN POSITION).
24. FACE OF WALL.
25. ANCHORAGE DETAIL 05 50 00-02.

MEDICINE CABINETS - TYPE 18C
NTS

DETAIL TITLE / MEDICINE CABINETS - TYPE 18C
SIZES 1, 2, 3 & 4



SCALE : NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.: SD123570.21-01.DWG

	Room	Lead in Partitions (mm)	Lead in Doors & Control Windows (mm)	Lead on Floor Slabs (mm)	Lead on Ceiling Slabs (mm)	Height of Lead in Partitions
1	Radiographic Fluoroscopic Room (Ceiling Mounted X-Ray) Special Procedures Diagnostic and Tele-Fluoroscopy (Ceiling Mounted X-Ray)	1.5mm (3mm for on Partition on Dark Room Side)	1.5 mm (3 mm for Door to Dark Room)	None on 100 mm (min.) Normal Weight Concrete	None	2100 mm (7")
2	Deep Therapy Room: Conventional Cobalt Betatrons Linear Accelerators	Shielding as Determined by a Licensed Physicist				
3	Cystoscopic Room	1.5mm (3mm for on Partition on Dark Room Side)	1.5 mm (3 mm for Door to Dark Room)	None on 100 mm (min.) Normal Weight Concrete	None	2100 mm (7")
4	Animal X-Ray, Animal Research, Radiography and Fluoroscopy	1.5mm (3mm for on Partition on Dark Room Side)	1.5mm (3mm for on Partition on Dark Room Side)	1.5 mm (3 mm for Door to Dark Room)	None on 100 mm (min.) Normal Weight Concrete	None
5	Dental X-Ray Area Oral Surgery Room General Treatment Operatories	1 mm	1 mm	None	None	2100 mm (7")
6	Dental X-Ray Room (Portable 50/65 KVP)	None	None	None	None	None
7	Fluoroscopic Rooms, Vertical or Tilt Type, Gastroenterology (No Radiography)	1.5 mm (No Control Booth Required)	1.5 mm	None on 100 mm (min.) Normal Weight Concrete	None	2100 mm (7")
8	Operating Room Including Animal Operating (Portable X-Ray), Cardiac and Neurosurgical Operating Room (Portable X-Ray)	None (Except 3 mm on Dark Room Side)	None (Except 3 mm on Dark Room Side)	None	None	None
9	Cardiac Catheterization in cardiopulmonary Clinic (Fixed Equipment) Operating Room (Fixed Equipment)	1.5mm (3mm for on Partition on Dark Room Side)	1.5 mm (3 mm for Door to Dark Room)	None on 100 mm (min.) Normal Weight Concrete	None	2100 mm (7")
10	Ultrasound & Thermography	None	None	None	None	None

GENERAL NOTES:

1. ALL RADIOLOGY FACILITY PROJECTS WILL BE REVIEWED BY THE VA HEALTH PHYSICS PROGRAM OFFICE FOR APPROPRIATE APPLICATION OF PROTECTIVE STANDARDS.
- 2.* LEAD SHIELDING REQUIREMENTS IN PARTITIONS ADJACENT TO, FACING, OR PROXIMITY TO PHOTOGRAPHIC LABS SHOULD BE REVIEWED BY A REGISTERED PHYSICIST.

DETAIL TITLE / LEAD LINING IN X-RAY ROOMS

SCALE : NONE

DATE ISSUED :DECEMBER 2008

CADD DETAIL NO. : SD134900-01.DWG

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MILLI-METERS	DECIMALS OF AN INCH	FRACTIONS OF AN INCH	LBS. PER SQ. FT	LEAD GLASS EQUIVALENT
0.396	0.0156	1/64"	1	1 PLY APPROX. 1/4"
0.792	0.0312	1/32"	2	1 PLY APPROX. 1/4"
1.000	0.0391	5/128"	2 1/2	1 PLY APPROX. 1/4"
1.191	0.0469	3/64"	3	1 PLY APPROX. 1/4"
1.587	0.0625	1/16"	4	1 PLY APPROX. 1/4"
1.984	0.0781	5/64"	5	1 PLY APPROX. 1/4"
2.380	0.0937	3/32"	6	1 PLY APPROX. 1/4"
3.175	0.1250	1/8"	8	2 PLY APPROX. 1/2"
3.967	0.1562	5/32"	10	2 PLY APPROX. 1/2"
4.763	0.1875	3/16	12	3 PLY APPROX. 3/4"
5.555	0.2187	7/32"	14	3 PLY APPROX. 3/4"
6.350	0.2500	1/4"	16	4 PLY APPROX. 1"
7.142	0.2812	9/32"	18	4 PLY APPROX. 1"
8.465	0.3333	1/3"	20	5 PLY APPROX. 1 1/4"
9.525	0.3750	* 3/8"	22 1/2	6 PLY APPROX. 1 1/2"
10.160	0.4000	2/5"	24	6 PLY APPROX. 1 1/2"
10.317	0.4062	13/32"	25	6 PLY APPROX. 1 1/2"
11.112	0.4375	* 7/16"	28	7 PLY APPROX. 1 3/4"
12.700	0.5000	1/2"	30	7 PLY APPROX. 1 3/4"
14.267	0.5625	* 9/16"	34	8 PLY APPROX. 2"
15.876	0.6250	5/8"	38	9 PLY APPROX. 2 1/4"
16.934	0.6667	2/3"	40	9 PLY APPROX. 2 1/4"
19.050	0.7500	3/4"	44	10 PLY APPROX. 2 1/2"
20.637	0.8125	* 13/16"	48	11 PLY APPROX. 2 3/4"
22.225	0.8750	7/8"	52	12 PLY APPROX. 3"
25.400	1.000	1"	60	14 PLY APPROX. 3 1/4"

GENERAL NOTES:

1. SHEET LEAD IN THIS TABLE GIVEN IN COMMERCIAL THICKNESSES EXCEPT AS NOTED.
- 2.* THESE SPECIAL THICKNESSES MAY BE ROLLED IF IN SUFFICIENT QUANTITIES



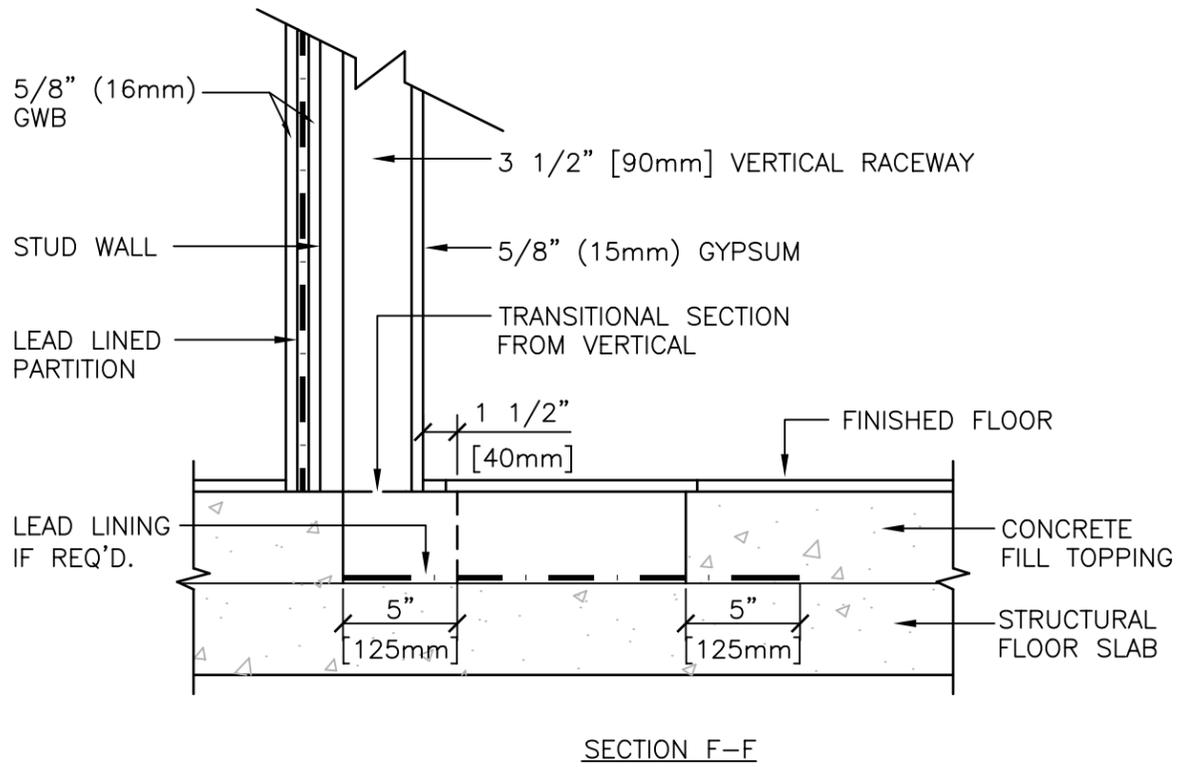
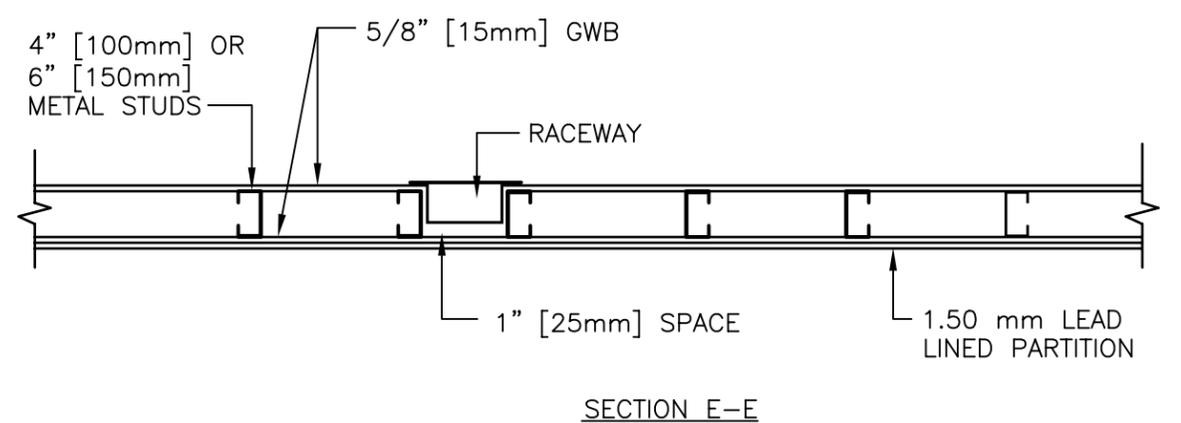
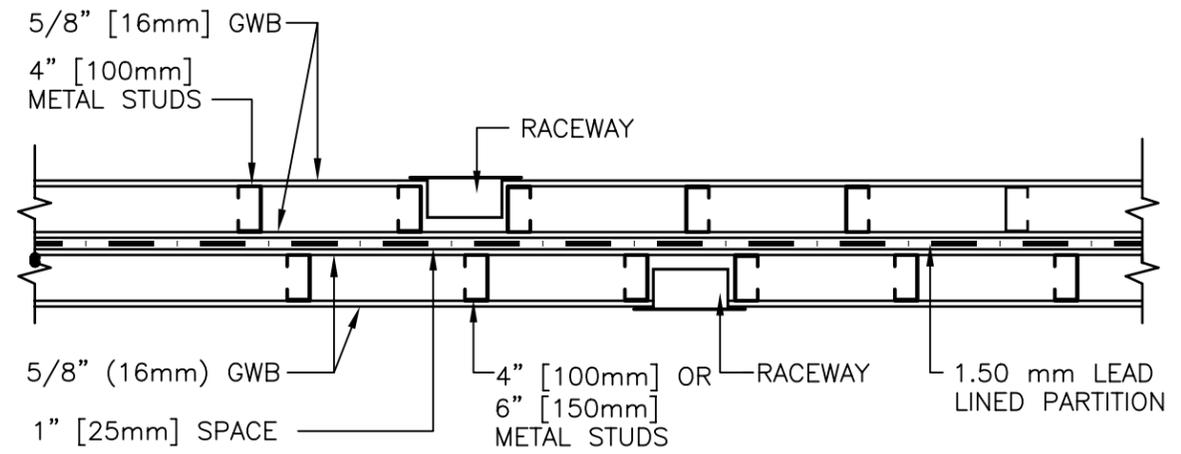
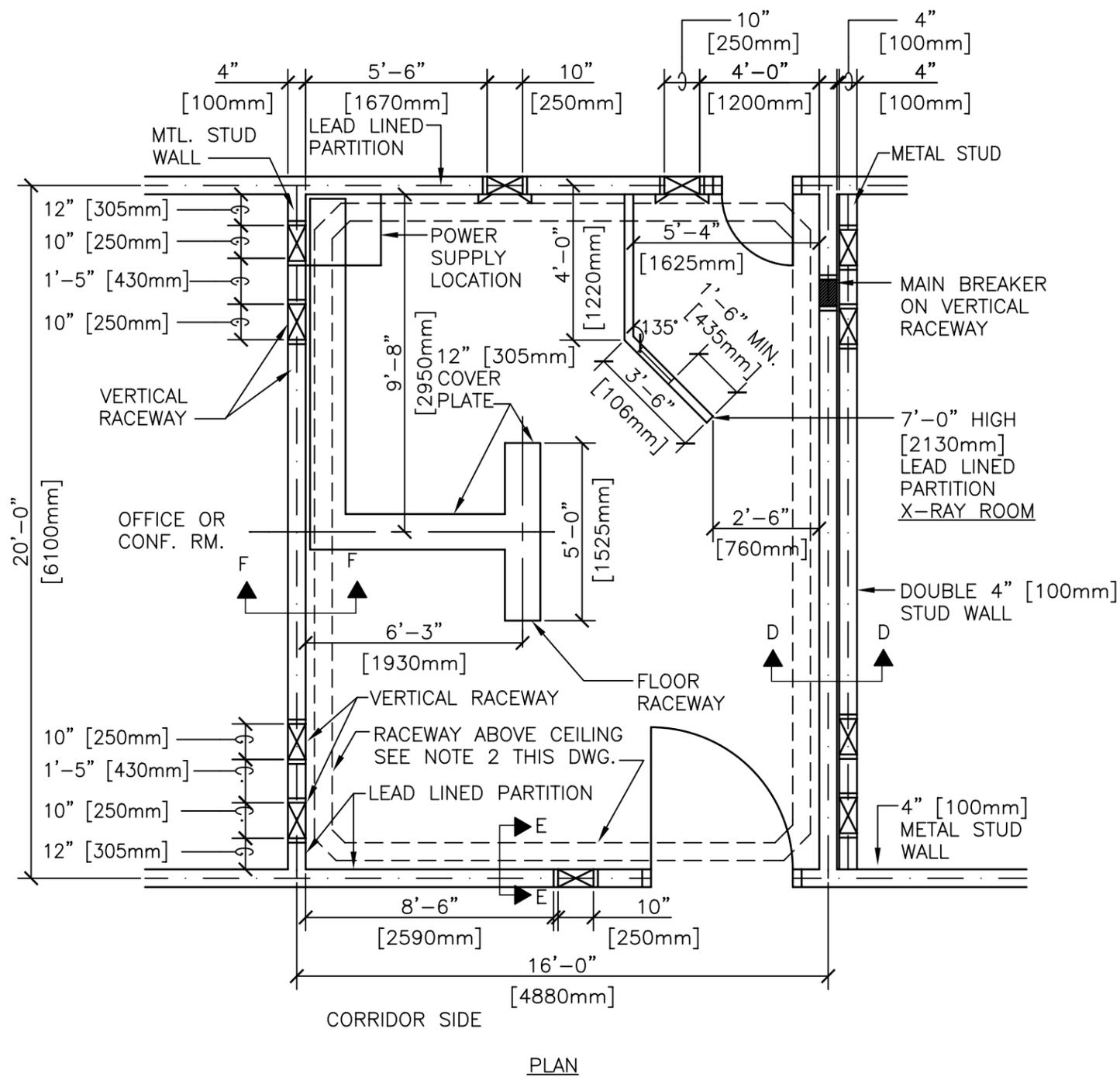
Department of
Veterans Affairs

DETAIL TITLE / LEAD SHEET THICKNESS & WEIGHT

SCALE : NONE

DATE ISSUED :DECEMBER 2008

CADD DETAIL NO. : SD134900-02.DWG



GENERAL NOTES:

1. VERTICAL & HORIZONTAL RACEWAYS REQUIRE A 6" [152mm] DEPTH WHERE THERE IS A 3.5" [115mm] TOPPING & DEPRESS THE SLAB 2.5" [65mm]. WHERE THE SLAB DOES NOT HAVE A TOPPING, DEPRESS THE SLAB 6" [152mm].
2. RACEWAY CORNERS ARE BEVELED AT 45 DEGREES TO FACILITATE CONDUIT INSTALLATION.
3. 6" [152mm] LEAD LINED PARTITION AT THE ENTIRE PERIMETER.

DETAIL TITLE / DOD / VA UNIVERSAL X-RAY (R-F) ROOM PLAN AND SECTIONS

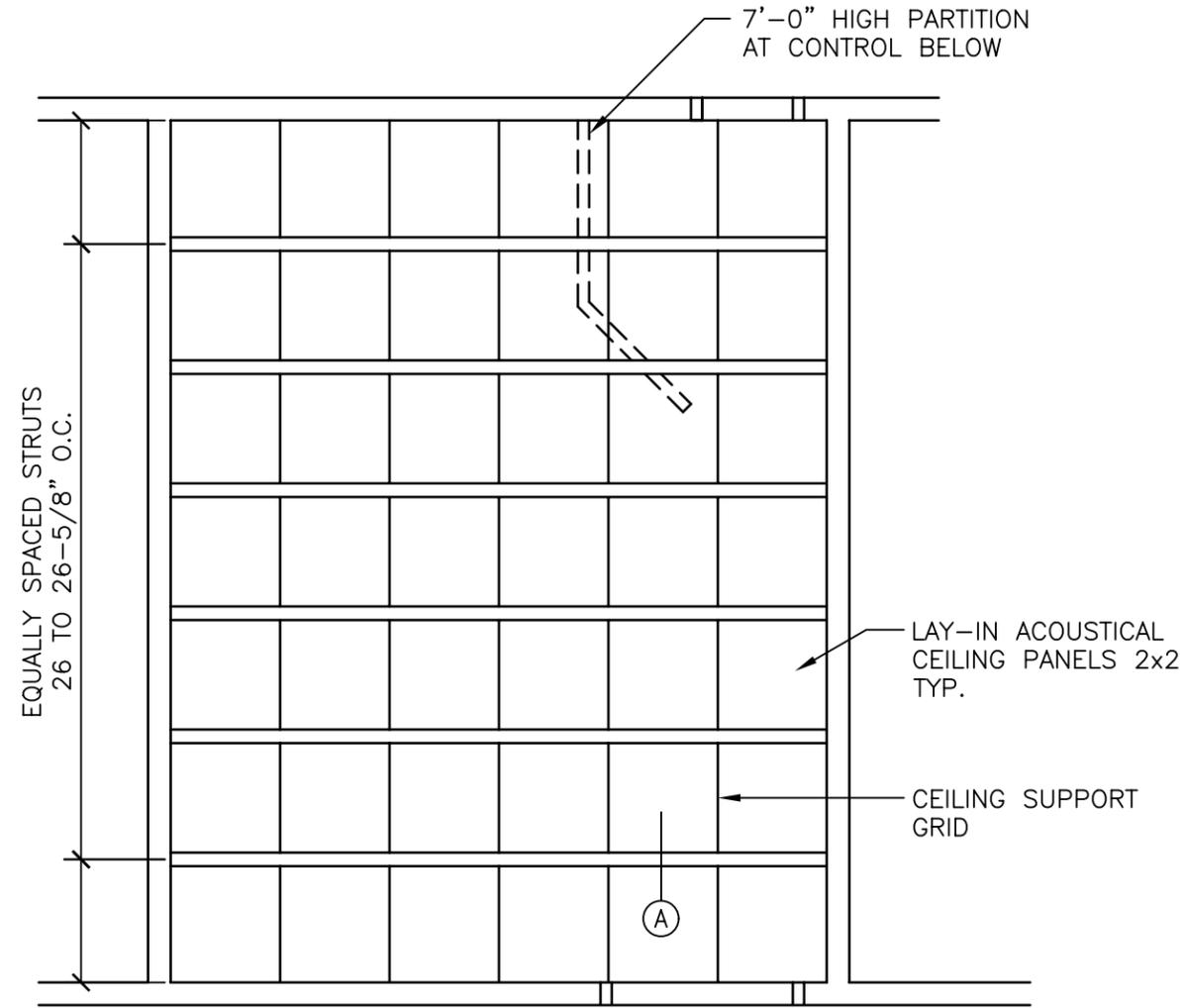
Department of Veterans Affairs



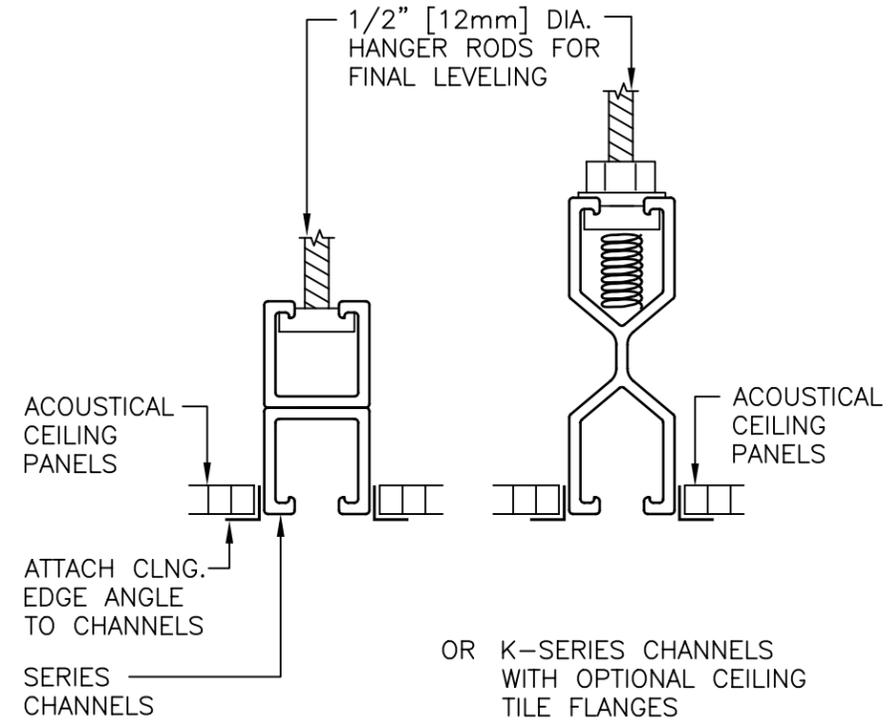
SCALE : NONE

DATE ISSUED : DECEMBER 2008

CADD DETAIL NO. : SD134900-03.DWG



REFLECTED CEILING PLAN
UNIVERSAL X-RAY ROOM



(A) SUPPORT STRUT DETAILS LAY-IN CEILING

GENERAL NOTES:

PROVIDE SUSPENDED GRID OF STRUT CHANNELS TO SUPPORT X-RAY MACHINE RAILS. A/E SHALL DESIGN SUPPORT SYSTEM TO SUIT BUILDING STRUCTURE. SUPPORT RAILS FROM STRUCTURAL BEAMS OR JOISTS (PROVIDE INTERMEDIATE FRAMING AS NECESSARY). DO NOT SUPPORT FROM METAL DECK, CONCRETE SLABS, OR WALK-ON (INTERSTITIAL) DECKS. BRACE SUPPORT SYSTEM FOR LATERAL LOADS FROM MOVING EQUIPMENT AND SEISMIC. PROVIDE LIGHTING AND HVAC PER VA DESIGN MANUALS.

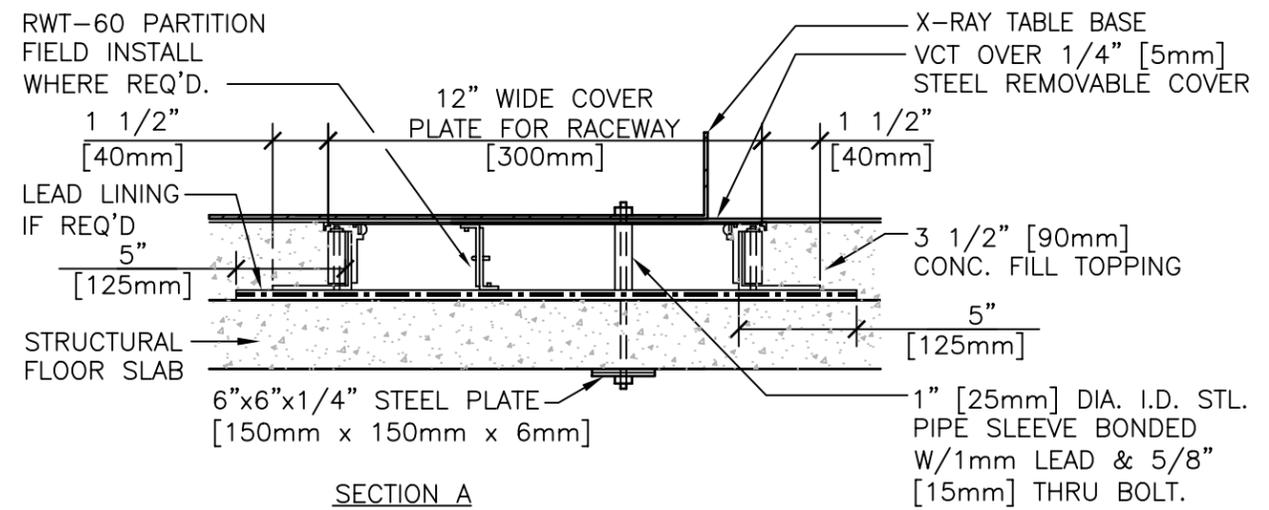
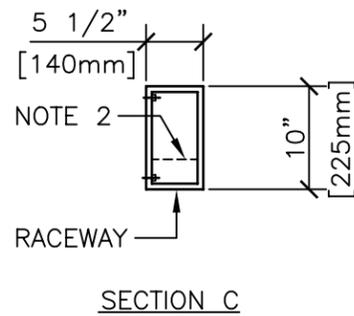
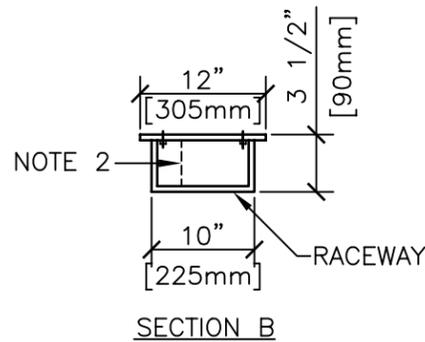
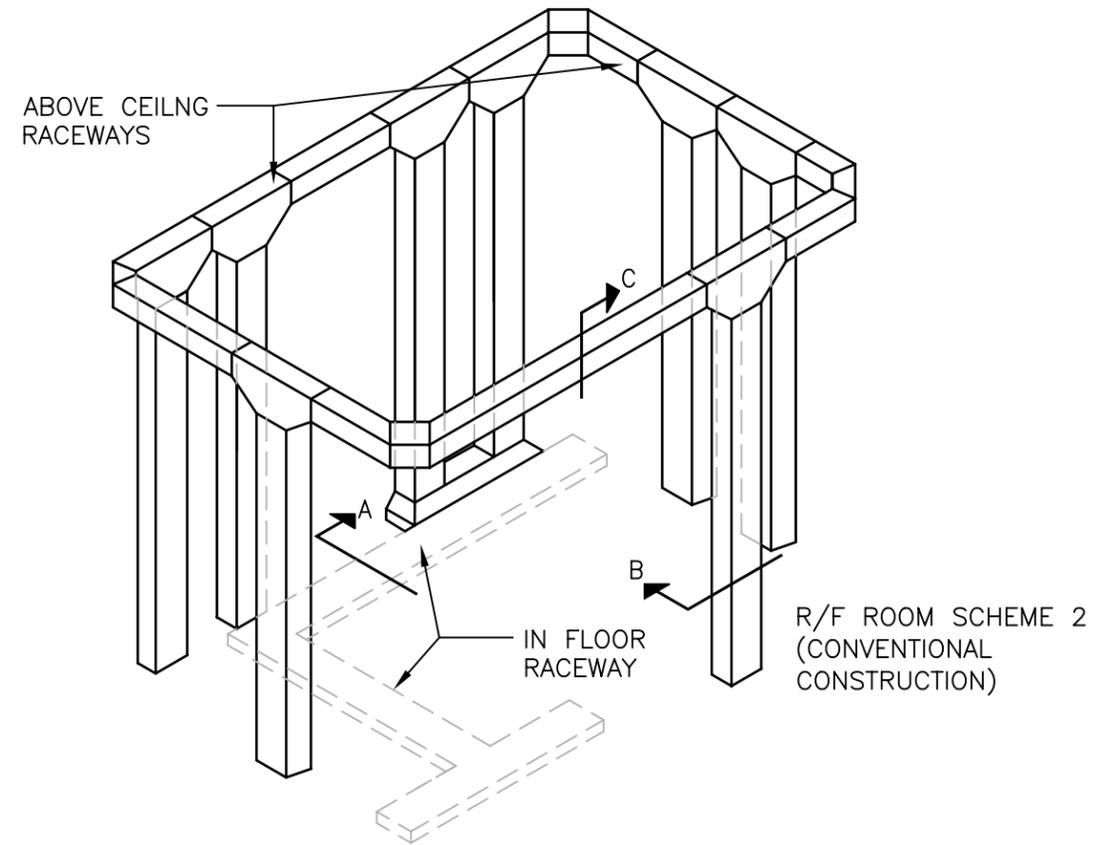
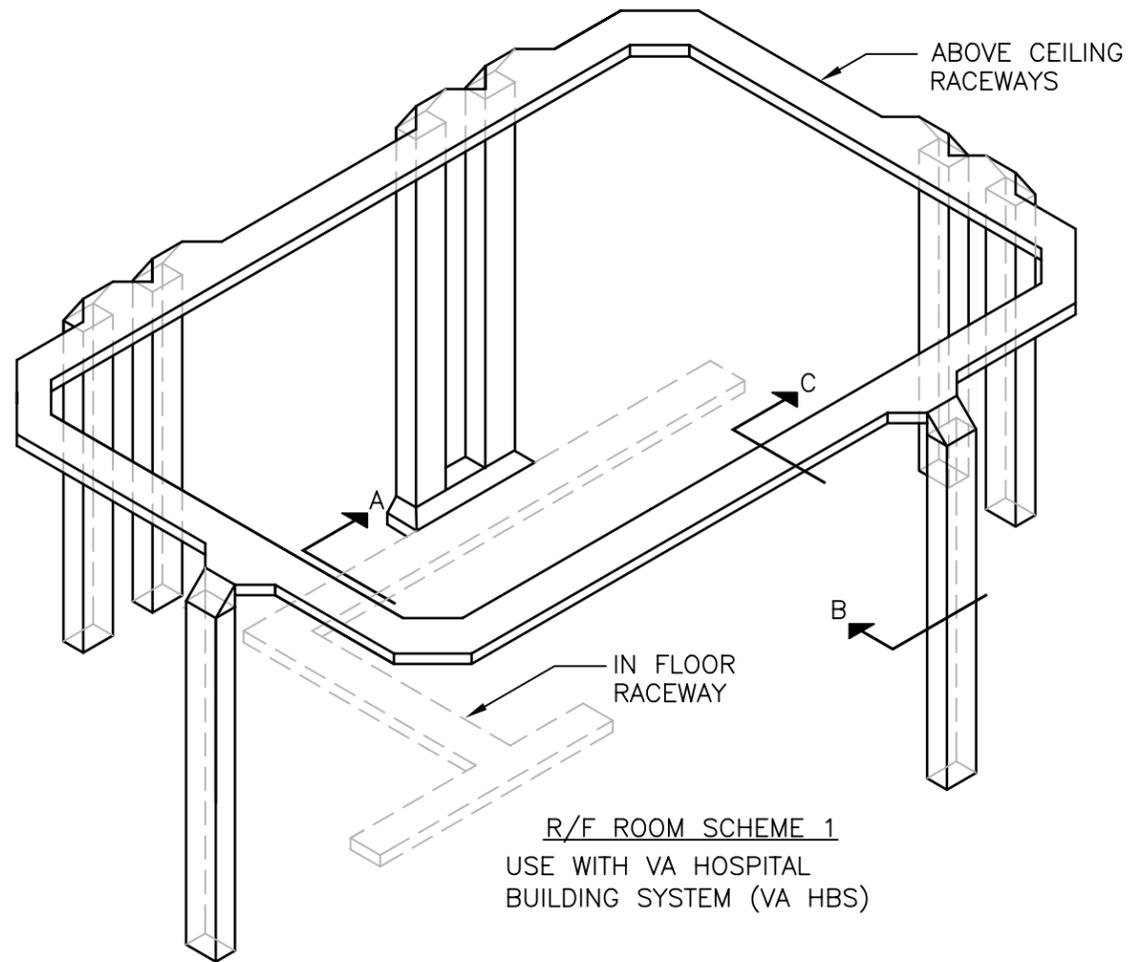
DETAIL TITLE / SUPPORT SYSTEM FOR CEILING
MOUNTED X-RAY EQUIPMENT

SCALE : NONE

DATE ISSUED : DECEMBER 2008

CADD DETAIL NO. : SD134900-04.DWG





GENERAL NOTES:

1. REFER TO STANDARD DETAILS 13 49 00-1 & 13 49 00-2 FOR LEAD LINING REQUIREMENTS.
2. INSTALL DIVIDERS IN RACEWAYS IF REQUIRED.
3. LOCATE RACEWAY ON THE UNDERSIDE OF THE VA HBS WALK-ON DECK.

DETAIL TITLE / DOD / VA UNIVERSAL X-RAY (R-F0) ROOM RACEWAY LAYOUT SCHEME 1 & 2

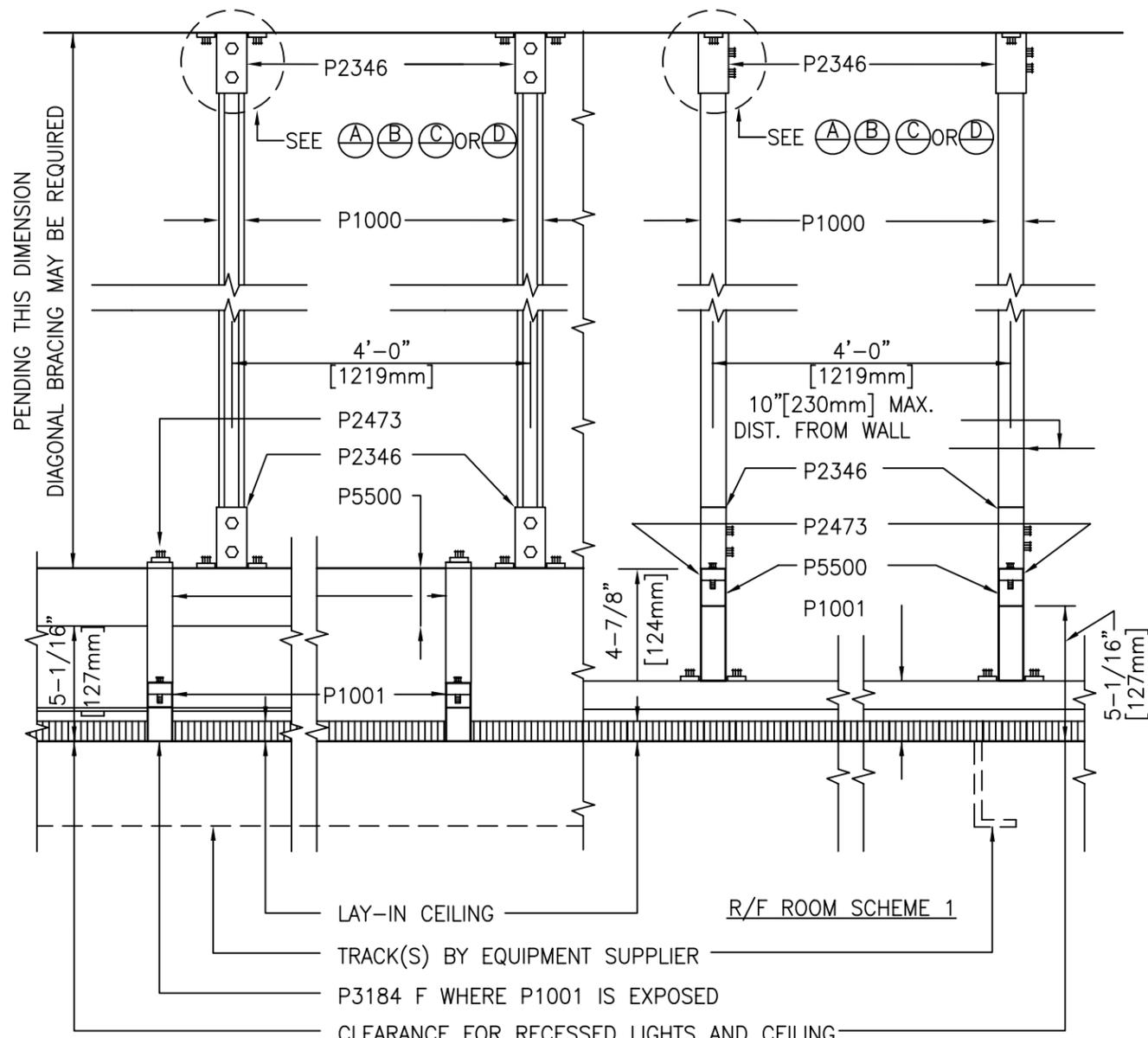
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DATE ISSUED :DECEMBER 2008

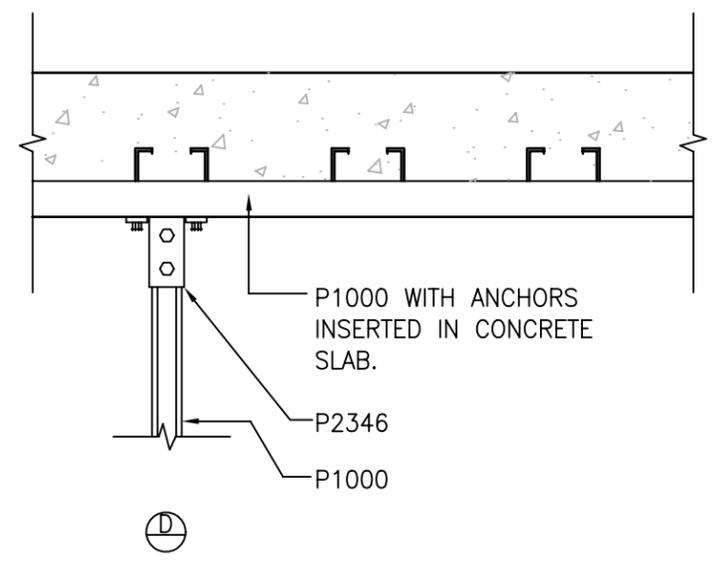
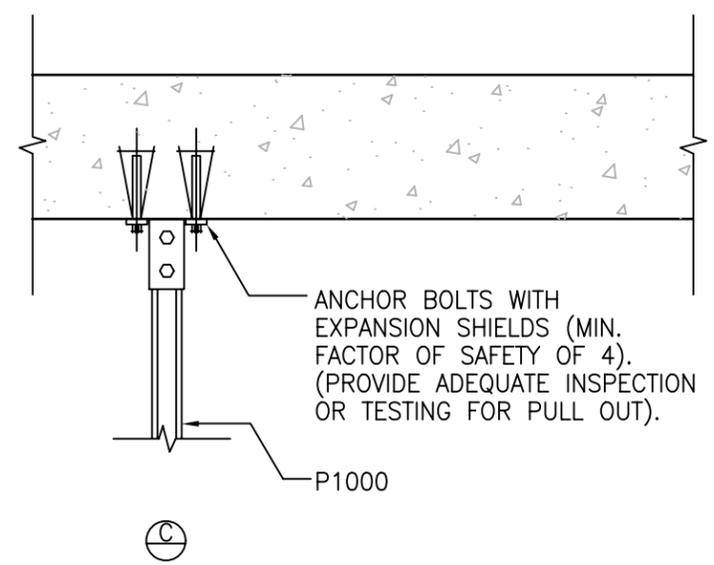
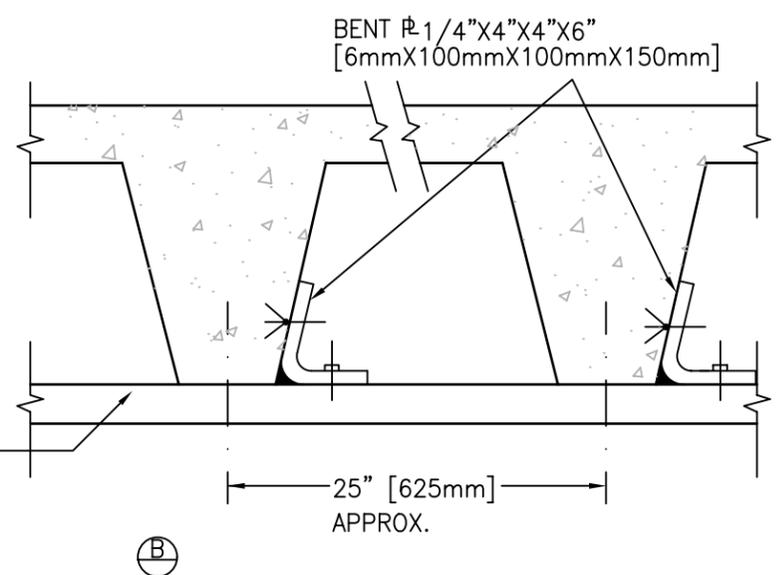
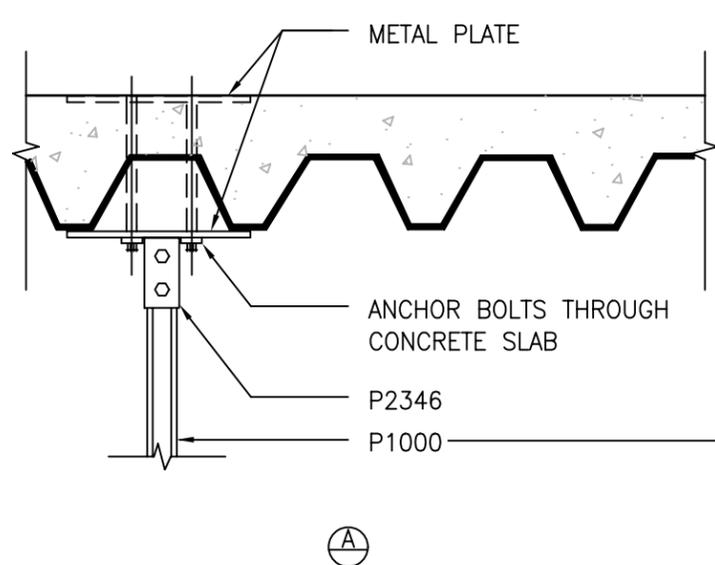
CADD DETAIL NO. : SD134900-05.DWG

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SECTION THROUGH SUPPORT SYSTEM



NOTES:
 ALL SUPPORTS AND HANGERS SHALL BE ARRANGED AS SHOWN ON ARCHITECTURAL DRAWINGS AND SHALL TERMINATE APPROX. 6" [150mm] FROM FACE OF WALLS OR PARTITIONS, EXCEPT FOR MEMBERS FLUSH WITH CEILING.
 THE NUMBER SHOWN ON DRAWING WITH A "P" PREFIX ARE UNISTRUT CATALOG NUMBERS USED AS A CONVENIENCE FOR IDENTIFYING DESIRED SHAPES AND THICKNESS OF MEMBERS.

NOTE FOR ARCHITECT:
 DETAILS A, B, C & D SHOW ANCHORAGE SUPPORT INTO VARIOUS TYPES OF SLAB CONDITIONS. ACTUAL SUPPORT MUST BE DESIGNED TO SUIT THE PARTICULAR SITUATION.

DETAIL TITLE / DOD / VA UNIVERSAL X-RAY (R-F) ROOM SUPPORT SYSTEM FOR CEILING MOUNTED X-RAY EQUIPMENT