

**VA Minneapolis
Design Upgrade of Building 222
Fort Snelling
6330 Bloomington Road
St. Paul, MN 55111
Project 618-14-160
CD ISSUE
February 9, 2016**



**United States Department of Veterans Affairs
NCO 23 - Minneapolis
708 South Third Street, Suite 200E
Minneapolis, MN 55415
SPECIFICATIONS
(Volume 1 of 2)**



Prepared in association with the following:
Dunham Engineering
LHB Corporation

**VA Minneapolis
Design Upgrade of Building 222
Fort Snelling
6330 Bloomington Road
St. Paul, MN 55111
Project 618-14-160
CD ISSUE
February 9, 2016**



**United States Department of Veterans Affairs
NCO 23 - Minneapolis
708 South Third Street, Suite 200E
Minneapolis, MN 55415
SPECIFICATIONS
(Volume 2 of 2)**



Prepared in association with the following:
Dunham Engineering
LHB Corporation



Construction Documents
Design Upgrade of Building 222 – Fort Snelling
6330 Bloomington Road, St. Paul, MN 55111
VA Minneapolis, MN; VA Project Number 618-14-160
February 9, 2016



Construction Documents
Design Upgrade of Building 222 – Fort Snelling
6330 Bloomington Road, St. Paul, MN 55111
VA Minneapolis, MN; VA Project Number 618-14-160
February 9, 2016



Construction Documents
Design Upgrade of Building 222 – Fort Snelling
6330 Bloomington Road, St. Paul, MN 55111
VA Minneapolis, MN; VA Project Number 618-14-160
February 9, 2016

VA Minneapolis, MN
 Design Upgrade of Building 222
 Fort Snelling
 6330 Bloomington Road
 St. Paul, MN 55111

VA Project 618-14-160
 02-09-16
 CD ISSUE

**DEPARTMENT OF VETERANS AFFAIRS
 VHA MASTER SPECIFICATIONS**

**TABLE OF CONTENTS
 Section 00 01 10**

	DIVISION 00 - SPECIAL SECTIONS	DATE
00 01 15	List of Drawing Sheets	07-15
	DIVISION 01 - GENERAL REQUIREMENTS	
01 00 00	General Requirements	06-15
01 32 16.15	Project Schedules (Small Projects - Design/Bid/Build)	04-13
01 33 23	Shop Drawings, Product Data, and Samples	07-15
01 35 26	Safety Requirements	10-14
01 42 19	Reference Standards	07-15
01 45 29	Testing Laboratory Services	06-15
01 57 19	Temporary Environmental Controls	01-11
01 74 19	Construction Waste Management	09-13
01 91 00	General Commissioning	09-13
	DIVISION 02 - EXISTING CONDITIONS	
02 41 00	Demolition	02-15
02 82 11	Traditional Asbestos Abatement	09-15
02 82 13.13	Glovebag Asbestos Abatement	09-15
02 82 13.20	Asbestos Class II Removal	
02 83 33.13	Lead-Based Paint Removal and Disposal	08-11
	DIVISION 03 - CONCRETE	
03 30 53	(Short-Form) Cast-in-Place Concrete	10-12
	DIVISION 04 - MASONRY	
04 05 13	Masonry Mortaring	09-11
04 05 16	Masonry Grouting	09-11
04 05 31	Masonry Tuck Pointing	10-08
04 20 00	Unit Masonry	02-15
04 72 00	Cast Stone Masonry	02-15
	DIVISION 05 - METALS	
05 12 00	Structural Steel Framing	11-12
05 50 00	Metal Fabrications	07-14
05 51 00	Metal Stairs	05-15

VA Minneapolis, MN
 Design Upgrade of Building 222
 Fort Snelling
 6330 Bloomington Road
 St. Paul, MN 55111

VA Project 618-14-160
 02-09-16
 CD ISSUE

	DIVISION 06 - WOOD, PLASTICS AND COMPOSITES	
06 10 00	Rough Carpentry	05-15
06 20 00	Finish Carpentry	06-13
	DIVISION 07 - THERMAL AND MOISTURE PROTECTION	
07 01 50.19	Preparation for Re-Roofing	10-10
07 12 00	Built-Up Bituminous Waterproofing	09-11
07 13 00	Sheet Waterproofing	04-13
07 21 13	Thermal Insulation	06-12
07 22 00	Roof and Deck Insulation	10-10
07 27 27	Fluid Applied Air Vapor Barrier	
07 31 33	Composite Rubber Roofing Shingles	
07 41 13	Standing Seam Metal Roofing	06-14
07 53 23	Ethylene-Propylene-Diene-Monomer Roofing	10-11
07 60 00	Flashing and Sheet Metal	07-14
07 71 00	Roof Specialties	05-15
07 84 00	Firestopping	05-15
07 92 00	Joint Sealants	05-15
	DIVISION 08 - OPENINGS	
08 11 13	Hollow Metal Doors and Frames	01-13
08 14 00	Interior Wood Doors	09-15
08 14 00.02	Exterior Wood Doors	
08 31 13	Access Doors and Frames	10-11
08 51 69.11	Aluminum Storm Windows	
08 71 00	Door Hardware	02-15
08 71 13.11	Low Energy Power Assist Door Operators	12-13
08 80 00	Glazing	09-15
08 90 00	Louvers and Vents	05-15
	DIVISION 09 - FINISHES	
09 05 16	Surface Preparation for Floor Finishes	
09 22 16	Non-Structural Metal Framing	10-14
09 24 00	Portland Cement Plastering	05-15
09 29 00	Gypsum Board	11-14
09 30 13	Ceramic/Porcelain Tiling	09-15
09 51 00	Acoustical Ceilings	12-13
09 65 13	Resilient Base and Accessories	10-11
09 65 19	Resilient Tile Flooring	05-15
09 68 00	Carpeting	05-15
09 69 00	Access Flooring	05-15
09 84 33	Sound-Absorbing Wall Units	05-15
09 91 00	Painting	09-15
	DIVISION 10 - SPECIALTIES	

VA Minneapolis, MN
 Design Upgrade of Building 222
 Fort Snelling
 6330 Bloomington Road
 St. Paul, MN 55111

VA Project 618-14-160
 02-09-16
 CD ISSUE

10 14 00	Signage	05-15
10 21 13	Toilet Compartments	09-15
10 22 13	Wire Mesh Partitions	10-15
10 26 00	Rigid Sheet Vinyl Wall Covering	
10 28 00	Toilet and Bath Accessories	09-15
10 44 13	Fire Extinguisher Cabinets	08-14
10 75 00	Flagpoles	11-11
	DIVISION 11 - EQUIPMENT (NOT USED)	
	DIVISION 12 - FURNISHINGS	
12 24 00	Window Shades	09-15
12 32 00	Manufactured Wood Casework	09-15
12 36 00	Countertops	09-15
	DIVISION 13 - SPECIAL CONSTRUCTION (NOT USED)	
	DIVISION 14- CONVEYING EQUIPEMENT	
14 24 00	Hydraulic Elevators	05-11
	DIVISION 21- FIRE SUPPRESSION	
21 13 13	Wet-Pipe Sprinkler Systems	06-15
	DIVISION 22 - PLUMBING	
22 05 11	Common Work Results for Plumbing	09-15
22 05 19	Meters and Gages for Plumbing Piping	09-15
22 05 23	General-Duty Valves for Plumbing Piping	09-15
22 05 33	Heat Tracing for Plumbing Piping	
22 07 11	Plumbing Insulation	09-15
22 11 00	Facility Water Distribution	09-15
22 11 23	Domestic Water Pumps	09-15
22 13 00	Facility Sanitary and Vent Piping	09-15
22 14 00	Facility Storm Drainage	09-15
22 14 29	Sump Pumps	09-15
22 33 00	Electric Domestic Water Heaters	
22 40 00	Plumbing Fixtures	09-15
	DIVISION 23 - HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)	
23 05 11	Common Work Results for HVAC	02-15
23 05 12	General Motor Requirements for HVAC and Steam Generation Equipment	11-10
23 05 41	Noise and Vibration Control for HVAC Piping and Equipment	02-15

VA Minneapolis, MN
 Design Upgrade of Building 222
 Fort Snelling
 6330 Bloomington Road
 St. Paul, MN 55111

VA Project 618-14-160
 02-09-16
 CD ISSUE

23 05 93	Testing, Adjusting, and Balancing for HVAC	02-15
23 07 11	HVAC and Boiler Plant Insulation	02-15
23 08 00	Commissioning of HVAC Systems	
23 09 23	Direct-Digital Control System for HVAC	09-11
23 09 33	Variable Frequency Motor Controllers	
23 11 23	Facility Natural-Gas Piping	
23 21 13	Hydronic Piping	09-12
23 21 23	Hydronic Pumps	02-15
23 23 00	Refrigerant Piping	02-15
23 25 00	HVAC Water Treatment	02-15
23 31 00	HVAC Ducts and Casings	03-13
23 34 00	HVAC Fans	02-15
23 37 00	Air Outlets and Inlets	02-15
23 40 00	HVAC Air Cleaning Devices	02-12
23 52 25	Low-Pressure Water Heating Boilers	04-11
23 73 00	Indoor Central-Station Air-Handling Units	
23 81 00	Decentralized Unitary HVAC Equipment	
23 81 23	Computer-Room Air Conditioners	
23 81 43	Air-Source Unitary Heat Pumps	
23 82 00	Convection Heating and Cooling Units	
23 82 16	Air Coils	
	DIVISION 26 - ELECTRICAL	
26 05 11	Requirements for Electrical Installations	07-15
26 05 19	Low-Voltage Electrical Power Conductors and Cables	07-13
26 05 26	Grounding and Bonding for Electrical Systems	12-12
26 05 33	Raceway and Boxes for Electrical Systems	05-14
26 05 41	Underground Electrical Construction	12-12
26 05 53	Identification for Electrical Systems	
26 05 73	Overcurrent Protective Device Coordination Study	12-12
26 08 00	Commissioning for Electrical Systems	
26 09 23	Lighting Controls	05-14
26 22 00	Low-Voltage Transformers	08-14
26 24 16	Panelboards	05-14
26 27 26	Wiring Devices	08-14
26 29 21	Disconnect Switches	12-12
26 32 13	Engine Generators	07-15
26 33 53	Static Uninterruptible Power Supply	12-12
26 36 23	Automatic Transfer Switches	12-12
26 43 13	Transient Voltage Surge Supression	12-12
26 51 00	Interior Lighting	08-14
26 56 00	Exterior Lighting	05-14
	DIVISION 27 - COMMUNICATIONS	
27 05 11	Requirements for Communications Installations	06-15
27 05 26	Grounding and Bonding for Communications Systems	06-15
27 05 33	Raceways and Boxes for Communications Systems	06-15
27 05 36	Cable Trays for Telecommunication Systems	

VA Minneapolis, MN
 Design Upgrade of Building 222
 Fort Snelling
 6330 Bloomington Road
 St. Paul, MN 55111

VA Project 618-14-160
 02-09-16
 CD ISSUE

27 08 00	Commissioning of Communications Systems	
27 10 00	Structured Cabling	06-15
27 12 00	Telecommunications Cabling Expansion	
27 15 00	Communications Horizontal Cabling	06-15
27 51 19	Sound Masking Systems	
	DIVISION 28 - ELECTRONIC SAFETY AND SECURITY	
28 05 11	Requirements for Electronic Safety and Security Installations	09-11
28 05 13	Conductors and Cables for Electronic Safety and Security	09-11
28 05 26	Grounding and Bonding for Electronic Safety and Security	09-11
28 05 33	Conduits and Boxes for Electronic Safety and Security	09-11
28 08 00	Commissioning of Electronic Safety and Security Systems	
28 13 00	Physical Access Control System	10-11
28 23 00	Video Surveillance	09-11
28 31 00	Fire Detection and Alarm	10-11
28 52 31	Emergency Call System	06-15
	DIVISION 31 - EARTHWORK	
31 20 11	Earthwork (Short Form)	10-12
	DIVISION 32 - EXTERIOR IMPROVEMENTS	
32 05 23	Cement and Concrete for Exterior Improvements	05-13
32 12 16	Asphalt Paving	09-15
32 14 13.13	Precast Concrete Pavers	04-12
32 17 23	Pavement Markings	04-10
32 30 00	Site Furnishings	05-10
32 90 00	Planting	10-11
	DIVISION 33 - UTILITIES	
33 10 00	Water Utilities	01-14
33 30 00	Sanitary Sewer Utilities	06-13
33 40 00	Storm Sewer Utilities	10-11
33 46 13	Foundation Drainage	10-11
	DIVISION 34 - TRANSPORTATION (NOT USED)	
	DIVISION 48 - Electrical Power Generation (NOT USED)	

---END---

VA Minneapolis, MN
Design Upgrade of Building 222
Fort Snelling
6330 Bloomington Road
St. Paul, MN 55111

VA Project 618-14-160
02-09-16
CD ISSUE

SECTION 00 01 15
LIST OF DRAWING SHEETS

The drawings listed below accompanying this specification form a part of
the contract.

<u>Drawing No.</u>	<u>Title</u>
GENERAL	
GI001	COVER SHEET
GI002	SHEET INDEX, SYMBOLS AND MATERIALS
GI003	ABBREVIATIONS
HAZARDOUS MATERIALS	
ASB 100	ASBESTOS ABATEMENT REMEDIATION- LOWER LEVEL FLOOR PLAN
ASB 101	ASBESTOS ABATEMENT REMEDIATION - LEVEL ONE FLOOR PLAN
ASB 102	ASBESTOS ABATEMENT REMEDIATION- ATTIC LEVEL FLOOR PLAN
HA100	LEAD BASED PAINT REMEDIATION - LOWER LEVEL FLOOR PLAN
HA101	LEAD BASED PAINT REMEDIATION- LEVEL ONE FLOOR PLAN
HA102	LEAD BASED PAINT REMEDIATION - ATTIC LEVEL FLOOR PLAN
CIVIL	
CD101	SITE DEMOLITION AND REMOVALS
CS101	SITE PLAN
CG101	GRADING AND DRAINAGE PLAN
CG102	EROSION CONTROL PLAN
CG103	EROSION CONTROL DETAILS
CP101	SITE PAVING PLAN
CP102	CIVIL DTAILS
CU101	SITE UTILITY PLAN
CU102	SITE UTILITY DETAILS
LANDSCAPE	

VA Minneapolis, MN
Design Upgrade of Building 222
Fort Snelling
6330 Bloomington Road
St. Paul, MN 55111

VA Project 618-14-160
02-09-16
CD ISSUE

LP101	LANDSCAPE PLAN
LP102	LANDSCAPE COURTYARD ENLARGEMENT
LP103	LANDSCAPE DETAILS
LP201	SITE FURNISHINGS PLAN
LP202	SITE FURNISHINGS DETAILS
ARCHITECTURAL	
AS001	LIFE SAFETY PLAN - LOWER LEVEL
AS002	LIFE SAFETY PLAN - MAIN LEVEL
AS003	LIFE SAFETY PLAN - ATTIC LEVEL
AD101	DEMOLITION PLAN - LOWER LEVEL
AD102	DEMOLITION PLAN - MAIN LEVEL
AD103	DEMOLITION PLAN - ATTIC LEVEL
AS100	OVERALL BUILDING & KEY PLAN
AS101	FLOOR PLAN - LOWER LEVEL
AS102	FLOOR PLAN - MAIN LEVEL
AS103	FLOOR PLAN - ATTIC LEVEL
AS104	ROOF PLAN
AS105	REFLECTED CEILING PLAN - LOWER LEVEL
AS106	REFLECTED CEILING PLAN - MAIN LEVEL
AS107	REFLECTED CEILING PLAN - ATTIC LEVEL
AS108	ALTERNATE ATTIC LEVEL PLAN
AS201	EXTERIOR ELEVATIONS
AS202	EXTERIOR ELEVATIONS
AS203	EXTERIOR ELEVATIONS
AS301	BUILDING SECTIONS
AS302	BUILDING SECTIONS
AS303	BUILDING SECTIONS
AS304	WALL SECTIONS
AS305	WALL SECTIONS
AS306	WALL SECTIONS
AS401	ENLARGED PLANS AND INTERIOR ELEVATIONS
AS402	ENLARGED PLANS AND INTERIOR ELEVATIONS
AS403	ENLARGED PLANS AND INTERIOR ELEVATIONS

VA Minneapolis, MN
Design Upgrade of Building 222
Fort Snelling
6330 Bloomington Road
St. Paul, MN 55111

VA Project 618-14-160
02-09-16
CD ISSUE

AS404	ENLARGED STAIR A PLANS AND SECTIONS
AS405	ENLARGED STAIR B PLANS AND SECTIONS
AS406	ENLARGED ELEVATOR PLANS AND SECTIONS
AS407	STAIR DETAILS
AS501	EXTERIOR DETAILS
AS502	EXTERIOR DETAILS
AS503	EXTERIOR DETAILS
AS504	EXTERIOR DETAILS
AS505	EXTERIOR DETAILS
AS601	INTERIOR DETAILS
AS602	INTERIOR DETAILS
AS603	INTERIOR CEILING DETAILS
AS701	INTERIOR PARTITION TYPES AND DETAILS
AS702	OPENING SCHEDULE AND DETAILS
AS703	DOOR AND OPENING DETAILS
AS704	WINDOW SCHEDULE
AS704.1	WINDOW SCHEDULE
AS704.2	WINDOW SCHEDULE
AS704.3	WINDOW SCHEDULE
AS704.4	WINDOW SCHEDULE
AS705	WINDOW TYPES AND DETAILS
AF100	FINISH SCHEDULE
AF101	FINISHES PLAN - LOWER LEVEL
AF102	FINISHES PLAN - MAIN LEVEL
AF103	FINISHES PLAN - ATTIC LEVEL
AF104	SIGNAGE - LOWER LEVEL SECTION A
AF105	SIGNAGE - LOWER LEVEL SECTION B
AF106	SIGNAGE - MAIN LEVEL
AF107	SIGNAGE - ATTIC LEVEL

FURNITURE AND EQUIPMENT

IF101	FURNITURE AND EQUIPMENT PLAN - LOWER LEVEL
IF102	FURNITURE AND EQUIPMENT PLAN - MAIN LEVEL
IF103	FURNITURE AND EQUIPMENT PLAN - ATTIC LEVEL
IF201	FURNITURE AND EQUIPMENT ENLARGED PLANS

VA Minneapolis, MN
Design Upgrade of Building 222
Fort Snelling
6330 Bloomington Road
St. Paul, MN 55111

VA Project 618-14-160
02-09-16
CD ISSUE

STRUCTURAL

SS100 GENERAL NOTES AND SCHEDULES
SS201 FOUNDATION / LOWER LEVEL PLAN
SS202 MAIN LEVEL FRAMING PLAN
SS203 ATTIC FRAMING PLAN
SS204 ROOF FRAMING PLAN
SS300 MASONRY RESTORATION - SOUTH ELEVATION
SS301 MASONRY RESTORATION - EAST ELEVATION
SS302 MASONRY RESTORATION - NORTH ELEVATION
SS303 MASONRY RESTORATION - WEST ELEVATION
SS304 MASONRY RESTORATION - COURTYARD SOUTH ELEVATION
SS305 MASONRY RESTORATION - COURTYARD NORTH ELEVATION
SS501 SECTIONS AND DETAILS
SS502 SECTIONS AND DETAILS

MECHANICAL

M000 MECHANICAL TITLE SHEET
MD101 MECHANICAL DEMOLITION PLAN - LOWER LEVEL
MD102 MECHANICAL DEMOLITION PLAN - MAIN LEVEL
MD103 MECHANICAL DEMOLITION PLAN - ATTIC LEVEL
MF101 FIRE PROTECTION PLAN - LOWER LEVEL
MF102 FIRE PROTECTION PLAN - MAIN LEVEL
MF103 FIRE PROTECTION PLAN - ATTIC LEVEL
MH101 HVAC PLAN - LOWER LEVEL
MH102 HVAC PLAN - MAIN LEVEL
MH103 HVAC PLAN - ATTIC LEVEL
MM101 MECHANICAL HEATING PIPING PLAN - LOWER LEVEL
MM102 MECHANICAL HEATING PIPING PLAN - MAIN LEVEL
MM103 MECHANICAL HEATING PIPING PLAN - ATTIC LEVEL
MM201 MECHANICAL REFRIG PIPING PLAN - LOWER LEVEL
MM202 MECHANICAL REFRIG PIPING PLAN - MAIN LEVEL
MM203 MECHANICAL REFRIG PIPING PLAN - ATTIC LEVEL
MP100 PLUMBING PLAN - UNDERGROUND
MP101 PLUMBING PLAN - LOWER LEVEL

VA Minneapolis, MN
Design Upgrade of Building 222
Fort Snelling
6330 Bloomington Road
St. Paul, MN 55111

VA Project 618-14-160
02-09-16
CD ISSUE

MP102	PLUMBING PLAN - MAIN LEVEL
MP103	PLUMBING PLAN - ATTIC LEVEL
MR01	MECHANICAL PLAN - ROOF
M201	MECHANICAL DETAILS
M202	MECHANICAL DETAILS
M210	ENLARGED PLAN VIEWS
M301	DOMESTIC WATER RISER DIAGRAMS
M302	WASTE & VENT RISER DIAGRAMS
M303	PIPING DIAGRAMS AND SECTIONS
M401	MECHANICAL SCHEDULES
M501	MECHANICAL AND ELECTRICAL SCHEDULES
M502	MECHANICAL AND ELECTRICAL SCHEDULES
M503	MECHANICAL AND ELECTRICAL SCHEDULES
M504	MECHANICAL AND ELECTRICAL SCHEDULES
M601	CONTROL SEQUENCES

ELECTRICAL

E000	ELECTRICAL TITLE SHEET
ED050	ELECTRICAL SITE DEMOLITION PLAN
ED101	ELECTRICAL DEMOLITION PLAN - LOWER LEVEL
ED102	ELECTRICAL DEMOLITION PLAN - MAIN LEVEL
ED103	ELECTRICAL DEMOLITION PLAN - ATTIC LEVEL
ED104	ELECTRICAL DEMOLITION PLAN - WAREHOUSE LEVEL 3
ED301	ELECTRICAL DEMOLITION RISER DIAGRAM
E050	ELECTRICAL SITE PLAN
EL101	LIGHTING PLAN - LOWER LEVEL
EL102	LIGHTING PLAN - MAIN LEVEL
EL103	LIGHTING PLAN - ATTIC LEVEL
EL104	LIGHTING PLAN - WAREHOUSE LEVEL 3
EP101	POWER PLAN - LOWER LEVEL
EP102	POWER PLAN - MAIN LEVEL
EP103	POWER PLAN - ATTIC LEVEL
EP104	POWER PLAN - WAREHOUSE LEVEL 3
ES101	SIGNAL PLAN - LOWER LEVEL
ES102	SIGNAL PLAN - MAIN LEVEL

VA Minneapolis, MN
Design Upgrade of Building 222
Fort Snelling
6330 Bloomington Road
St. Paul, MN 55111

VA Project 618-14-160
02-09-16
CD ISSUE

ES103	SIGNAL PLAN - ATTIC LEVEL
ES104	SIGNAL PLAN - WAREHOUSE LEVEL 3
E201	ELECTRICAL DETAILS
E202	ELECTRICAL DETAILS
E203	ELECTRICAL DETAILS
E204	ELECTRICAL DETAILS
E301	ELECTRICAL RISER DIAGRAM
E302	LOW VOLTAGE RISER
E303	FIRE ALARM RISER
E401	ELECTRICAL SCHEDULES
E402	LIGHTING SCHEDULES
E403	ELECTRICAL PANELBOARD SCHEDULES
E404	ELECTRICAL PANELBOARD SCHEDULES
E405	ELECTRICAL PANELBOARD SCHEDULES
E501	ENLARGED ELECTRICAL PLANS

- - - END - - -