VA HOSPITAL-BLDG. 43 MENTAL HEALTH H.M. WALL HUNG FURNITURE

Building Service Inc.
Salesperson:
Designer: Amy Woodzick

Item	Preview	Tag	Qty	Part Number	Part Description
144		A166 OAT 2 Office	1	A2350.3072L	+Penin,Sq-Edge Round-End Lam 30D 72W
				76	+light brown walnut
				WL	+sandstone
145		A166 OAT 2 Office	1	A3410.1630	+Tackboard,B-Style 16H 30W
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)
146		A166 OAT 2 Office	1	A3410.1648	+Tackboard,B-Style 16H 48W
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)
147		A166 OAT 2 Office	1	A2830.1460L	+Trans Surf,Sq-Edge Rect Lam 60W
				WL	+sandstone
148		A166 OAT 2 Office	3	AO213.84	+Wall Strip 84H
				WL	+sandstone
149		A166 OAT 2 Office	1	G6116.30ENS	+Task Lght,Perf,Daisy Str,Nrml-Pwr-Fctr Ballast,No Dim,AO,Etho,30W
				WN	+warm grey neutral
150		A166 OAT 2 Office	1	G6117.42ENS	+Task Lght,Perf,Daisy Add-On,Nrml-Pwr-Fctr Ballast,No Dim,AO,Etho,42W
				WN	+warm grey neutral
151		A164 OAT 3 Office	2	A3352.1330	+Flip Dr Unit,B-Style Fab,W/Lock 13D 30W 15-1/2H
				KA	+keyed alike
				WL	+sandstone
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)
152		A164 OAT 3 Office	2	A3352.1348	+Flip Dr Unit,B-Style Fab,W/Lock 13D 48W 15-1/2H
				KA	+keyed alike
				WL	+sandstone
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)

VA HOSPITAL-BLDG. 43 MENTAL HEALTH H.M. WALL HUNG FURNITURE

Building Service Inc.
Salesperson:
Designer: Amy Woodzick

Item	Preview	Tag	Qty	Part Number	Part Description
153		A164 OAT 3 Office	1	A2310.2448L	+Work Surf,Sq-Edge Rect Lam 24D 48W
				76	+light brown walnut
				WL	+sandstone
154		A164 OAT 3 Office	1	A2350.3072L	+Penin,Sq-Edge Round-End Lam 30D 72W
				76	+light brown walnut
				WL	+sandstone
155		A164 OAT 3 Office	1	A3410.1630	+Tackboard,B-Style 16H 30W
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)
156		A164 OAT 3 Office	1	A3410.1648	+Tackboard,B-Style 16H 48W
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)
157		A164 OAT 3 Office	1	A2830.1460L	+Trans Surf,Sq-Edge Rect Lam 60W
				WL	+sandstone
158		A164 OAT 3 Office	3	AO213.84	+Wall Strip 84H
				WL	+sandstone
159		A164 OAT 3 Office	1	G6116.30HNS	+Task Lght,Perf,Daisy Str,High-Pwr-Fctr Ballast,No Dim,AO,Etho,30W
				WN	+warm grey neutral
160		A164 OAT 3 Office	1	G6117.42HNS	+Task Lght,Perf,Daisy Add-On,High-Pwr-Fctr Ballast,No Dim,AO,Etho,42W
				WN	+warm grey neutral
161		A163 OAT 1 Office	2	A3352.1330	+Flip Dr Unit,B-Style Fab,W/Lock 13D 30W 15-1/2H
				KA	+keyed alike
				WL	+sandstone
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)

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Printed by: Amy Woodzick

VA HOSPITAL-BLDG. 43 MENTAL HEALTH H.M. WALL HUNG FURNITURE

Building Service Inc.
Salesperson:
Designer: Amy Woodzick

Item	Preview	Tag	Qty	Part Number	Part Description
162		A163 OAT 1 Office	2	A3352.1348	+Flip Dr Unit,B-Style Fab,W/Lock 13D 48W 15-1/2H
				KA	+keyed alike
				WL	+sandstone
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)
163		A163 OAT 1 Office	1	A2310.2448L	+Work Surf,Sq-Edge Rect Lam 24D 48W
				76	+light brown walnut
				WL	+sandstone
164		A163 OAT 1 Office	1	A2350.3072L	+Penin,Sq-Edge Round-End Lam 30D 72W
				76	+light brown walnut
				WL	+sandstone
165		A163 OAT 1 Office	1	A3410.1630	+Tackboard,B-Style 16H 30W
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)
166		A163 OAT 1 Office	1	A3410.1648	+Tackboard,B-Style 16H 48W
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)
167		A163 OAT 1 Office	1	A2830.1460L	+Trans Surf,Sq-Edge Rect Lam 60W
				WL	+sandstone
168		A163 OAT 1 Office	3	AO213.84	+Wall Strip 84H
				WL	+sandstone
169		A163 OAT 1 Office	1	G6116.30HNS	+Task Lght,Perf,Daisy Str,High-Pwr-Fctr Ballast,No Dim,AO,Etho,30W
				WN	+warm grey neutral
170		A163 OAT 1 Office	1	G6117.42HNS	+Task Lght,Perf,Daisy Add-On,High-Pwr-Fctr Ballast,No Dim,AO,Etho,42W
				WN	+warm grey neutral

VA HOSPITAL-BLDG. 43 MENTAL HEALTH H.M. WALL HUNG FURNITURE

Building Service Inc.
Salesperson:
Designer: Amy Woodzick

Item	Preview	Tag	Qty	Part Number	Part Description
171		A162 OAT MD Office	2	A3352.1330	+Flip Dr Unit,B-Style Fab,W/Lock 13D 30W 15-1/2H
				KA	+keyed alike
				WL	+sandstone
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)
172		A162 OAT MD Office	2	A3352.1348	+Flip Dr Unit,B-Style Fab,W/Lock 13D 48W 15-1/2H
				KA	+keyed alike
				WL	+sandstone
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)
173		A162 OAT MD Office	1	A2310.2448L	+Work Surf,Sq-Edge Rect Lam 24D 48W
				76	+light brown walnut
				WL	+sandstone
174		A162 OAT MD Office	1	A2350.3072L	+Penin,Sq-Edge Round-End Lam 30D 72W
				76	+light brown walnut
				WL	+sandstone
175		A162 OAT MD Office	1	A3410.1630	+Tackboard,B-Style 16H 30W
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)
176		A162 OAT MD Office	1	A3410.1648	+Tackboard,B-Style 16H 48W
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)
177		A162 OAT MD Office	1	A2830.1460L	+Trans Surf,Sq-Edge Rect Lam 60W
				WL	+sandstone
178		A162 OAT MD Office	3	AO213.84	+Wall Strip 84H
				WL	+sandstone
179		A162 OAT MD Office	1	G6116.30HNS	+Task Lght,Perf,Daisy Str,High-Pwr-Fctr Ballast,No Dim,AO,Etho,30W
				WN	+warm grey neutral

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VA HOSPITAL-BLDG. 43 MENTAL HEALTH H.M. WALL HUNG FURNITURE

Building Service Inc.
Salesperson:
Designer: Amy Woodzick

Item	Preview	Tag	Qty	Part Number	Part Description
180		A162 OAT MD Office	1	G6117.42HNS	+Task Lght,Perf,Daisy Add-On,High-Pwr-Fctr Ballast,No Dim,AO,Etho,42W
				WN	+warm grey neutral
181		A157 MH 6 Office	2	A3352.1330	+Flip Dr Unit,B-Style Fab,W/Lock 13D 30W 15-1/2H
				KA	+keyed alike
				WL	+sandstone
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)
182		A157 MH 6 Office	4	A3352.1336	+Flip Dr Unit,B-Style Fab,W/Lock 13D 36W 15-1/2H
				KA	+keyed alike
				WL	+sandstone
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)
183		A157 MH 6 Office	2	A3352.1348	+Flip Dr Unit,B-Style Fab,W/Lock 13D 48W 15-1/2H
				KA	+keyed alike
				WL	+sandstone
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)
184		A157 MH 6 Office	1	A2310.2448L	+Work Surf,Sq-Edge Rect Lam 24D 48W
				76	+light brown walnut
				WL	+sandstone
185		A157 MH 6 Office	1	A2310.2472L	+Work Surf,Sq-Edge Rect Lam 24D 72W
				76	+light brown walnut
				WL	+sandstone
186		A157 MH 6 Office	1	A2350.3072L	+Penin,Sq-Edge Round-End Lam 30D 72W
				76	+light brown walnut
				WL	+sandstone
187		A157 MH 6 Office	1	A3410.1630	+Tackboard,B-Style 16H 30W
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)

VA HOSPITAL-BLDG. 43 MENTAL HEALTH H.M. WALL HUNG FURNITURE

Building Service Inc.
Salesperson:
Designer: Amy Woodzick

Item	Preview	Tag	Qty	Part Number	Part Description
188		A157 MH 6 Office	2	A3410.1636	+Tackboard,B-Style 16H 36W
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)
189		A157 MH 6 Office	1	A3410.1648	+Tackboard,B-Style 16H 48W
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)
190		A157 MH 6 Office	1	A2830.1460L	+Trans Surf,Sq-Edge Rect Lam 60W
				WL	+sandstone
191		A157 MH 6 Office	6	AO213.84	+Wall Strip 84H
				WL	+sandstone
192		A157 MH 6 Office	1	G6116.30HNS	+Task Lght,Perf,Daisy Str,High-Pwr-Fctr Ballast,No Dim,AO,Etho,30W
				WN	+warm grey neutral
193		A157 MH 6 Office	1	G6116.30HNS	+Task Lght,Perf,Daisy Str,High-Pwr-Fctr Ballast,No Dim,AO,Etho,30W
				WN	+warm grey neutral
194		A157 MH 6 Office	1	G6117.30HNS	+Task Lght,Perf,Daisy Add-On,High-Pwr-Fctr Ballast,No Dim,AO,Etho,30W
				WN	+warm grey neutral
195		A157 MH 6 Office	1	G6117.42HNS	+Task Lght,Perf,Daisy Add-On,High-Pwr-Fctr Ballast,No Dim,AO,Etho,42W
				WN	+warm grey neutral
196		A156 Mail/work	2	A3352.1330	+Flip Dr Unit,B-Style Fab,W/Lock 13D 30W 15-1/2H
				KA	+keyed alike
				WL	+sandstone
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)

VA HOSPITAL-BLDG. 43 MENTAL HEALTH H.M. WALL HUNG FURNITURE

Building Service Inc.
Salesperson:
Designer: Amy Woodzick

Item	Preview	Tag	Qty	Part Number	Part Description
197		A156 Mail/work	2	A3352.1348	+Flip Dr Unit,B-Style Fab,W/Lock 13D 48W 15-1/2H
				KA	+keyed alike
				WL	+sandstone
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)
198		A156 Mail/work	1	A2310.2448L	+Work Surf,Sq-Edge Rect Lam 24D 48W
				76	+light brown walnut
				WL	+sandstone
199		A156 Mail/work	1	A2310.2460L	+Work Surf,Sq-Edge Rect Lam 24D 60W
				76	+light brown walnut
				WL	+sandstone
200		A156 Mail/work	1	A3410.1648	+Tackboard,B-Style 16H 48W
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)
201		A156 Mail/work	4	A3615.1630	+Tile,Rail Action Office Series 2 30W
				WL	+sandstone
202		A156 Mail/work	4	AO213.84	+Wall Strip 84H
				WL	+sandstone
203		A156 Mail/work	1	G6116.30HNS	+Task Lght,Perf,Daisy Str,High-Pwr-Fctr Ballast,No Dim,AO,Etho,30W
				WN	+warm grey neutral
204		A156 Mail/work	1	G6117.30HNS	+Task Lght,Perf,Daisy Add-On,High-Pwr-Fctr Ballast,No Dim,AO,Etho,30W
				WN	+warm grey neutral
205		A156 Mail/work	1	G6116.42HNS	+Task Lght,Perf,Daisy Str,High-Pwr-Fctr Ballast,No Dim,AO,Etho,42W
				WN	+warm grey neutral
206		A156 Mail/work	40	Y7216.10	+Paper Tray 10W
				XF	+frosted

VA HOSPITAL-BLDG. 43 MENTAL HEALTH H.M. WALL HUNG FURNITURE

Building Service Inc.
Salesperson:
Designer: Amy Woodzick

Item	Preview	Tag	Qty	Part Number	Part Description
207		A155 Reception	2	A3352.1336	+Flip Dr Unit,B-Style Fab,W/Lock 13D 36W 15-1/2H
				KA	+keyed alike
				WL	+sandstone
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)
208		A155 Reception	6	A3352.1342	+Flip Dr Unit,B-Style Fab,W/Lock 13D 42W 15-1/2H
				KA	+keyed alike
				WL	+sandstone
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)
209		A155 Reception	1	A2310.2478L	+Work Surf,Sq-Edge Rect Lam 24D 78W
				76	+light brown walnut
				WL	+sandstone
210		A155 Reception	1	A2310.2484L	+Work Surf,Sq-Edge Rect Lam 24D 84W
				76	+light brown walnut
				WL	+sandstone
211		A155 Reception	1	A3410.1636	+Tackboard,B-Style 16H 36W
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)
212		A155 Reception	3	A3410.1642	+Tackboard,B-Style 16H 42W
				1V	@violetta-Pr Cat 4
				04	+violetta barone (discontinuing)
213		A155 Reception	5	AO213.84	+Wall Strip 84H
				WL	+sandstone
214		A155 Reception	1	G6116.42HNS	+Task Lght,Perf,Daisy Str,High-Pwr-Fctr Ballast,No Dim,AO,Etho,42W
				WN	+warm grey neutral
215		A155 Reception	1	G6117.30HNS	+Task Lght,Perf,Daisy Add-On,High-Pwr-Fctr Ballast,No Dim,AO,Etho,30W
				WN	+warm grey neutral

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VA HOSPITAL-BLDG. 43 MENTAL HEALTH H.M. WALL HUNG FURNITURE

Building Service Inc.
Salesperson:
Designer: Amy Woodzick

Item	Preview	Tag	Qty	Part Number	Part Description
216		A155 Reception	2	G6117.42HNS	+Task Lght,Perf,Daisy Add-On,High-Pwr-Fctr Ballast,No Dim,AO,Etho,42W
				WN	+warm grey neutral
					Grand Total

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Printed by: Amy Woodzick

Revisions:	Date

VA | U.S. Department of Veterans Affairs

CLEMENT J. ZABLOCKI VA MEDICAL CENTER
MILWAUKEE, WISCONSIN

ARCHITECT/ENGINEERS:

PROJECT LEAD
Architect, Structural Engineer, Civil Engineer
GUIDON DESIGN
GUIDON DESIGN INC.
905 N. CAPITOL AVE. SUITE 100 | INDIANAPOLIS, IN. 46204
317.800.6388 | WWW.GUIDONDESIGN.COM
SUSTAINABLE ARCHITECTURE + ENGINEERING

MEP Engineer
RING & DUCHATEAU, LLP
17400 W. CAPITOL DRIVE
BROOKFIELD, WI 53045

(414) 778-1700

BID SET

Drawing Title: FURNITURE SCHEDULE	Project Title: BUILDING 43 RENOVATE FOR SUBSTANCE ABUSE AND PSYCHOLOGY	Project Number: 14.1020.03	OFFICE OF FACILITIES MANAGEMENT
		Building Number: #43	
Approved for Design Concept: JAMES BEIER	Location: CLEMENT J. ZABLOCKI VAMC	Drawing Number: ID105	VA Project Number: 695-15-118
	Date: 09/30/2015 · Checked By: KA · Drawn By: TDC		VA	U.S. Department of Veterans Affairs

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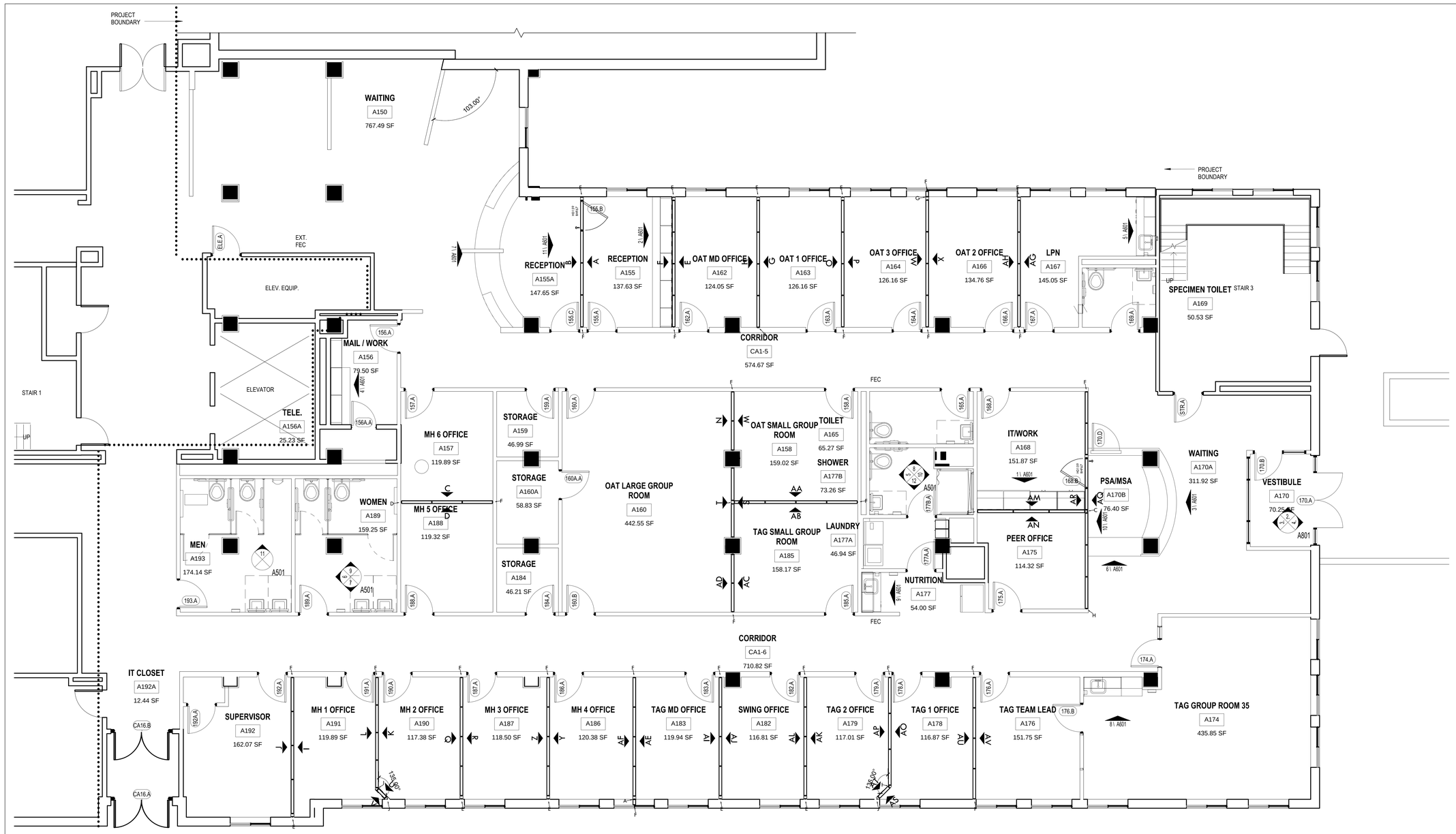
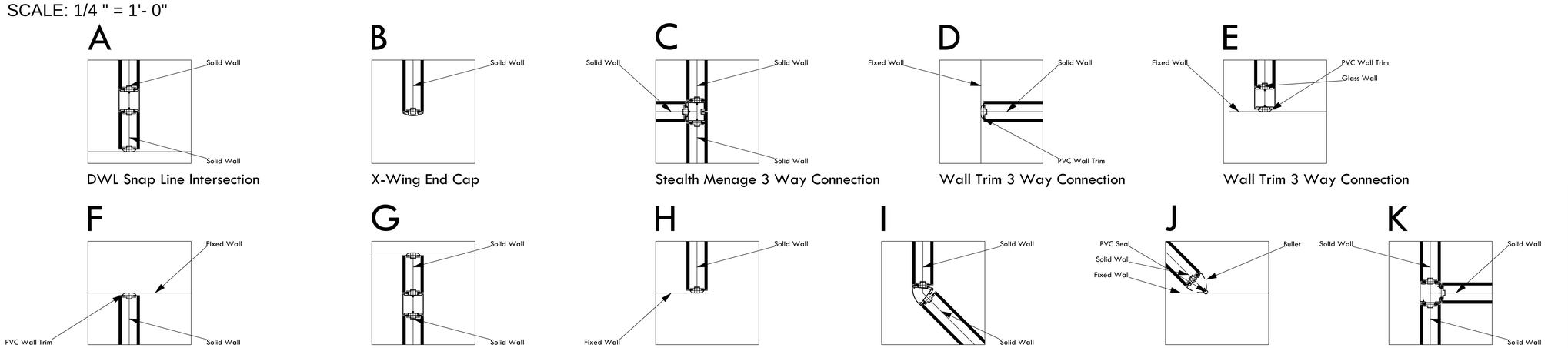


FLOOR PLAN - DIRTT WALL PARTITION

SCALE: 1/4 " = 1'- 0"



CONNECTION DETAILS

SCALE: 1 1/2 " = 1'- 0"

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*Written dimensions have precedence over scale in all cases.

CLIENT APPROVAL

- ☐ APPROVED DRAWING PACKAGE
- ☐ APPROVED, AS NOTED
- ☐ REVISED, RESUBMIT

Authorized Signing Officer Date

This drawing represents DIRTT's interpretation of the design intent and serves as our shop drawings for manufacturing purposes. The details and scope in these drawings represent the product that will be produced by DIRTT Environmental Solutions and delivered to site. All additions, changes or deviations from this approval drawing package will be regarded as a change order and processed accordingly. Approval of this drawing package is one of the conditions precedent to commencement of manufacturing.

DIRTT Environmental Solutions

DIRTT

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Architect / Interior Design:
GUIDON DESIGN
905 N. Capitol Avenue #100, Indianapolis, IN 46204
P: 317.800.6388

End User:
VA U.S. Department of Veterans Affairs
5000 W. National Ave, Milwaukee, WI 53295
P: 414.384.2000

GENERAL NOTES:

- NO SEISMIC REQUIRED

FRAME STYLE:
- CURVILINEAR, ANODIZED

BASE:
- GERRY, ANODIZED

TRIM FINISH:
- PVC ZIPPERS: SILVER
- PVC / GLASS WIPE: SILVER

FLOOR TYPE:
- CARPET

WALL HEIGHT:
- FULL HEIGHT: 9'- 0" AFF

CEILING TYPE:
- CEILING GRID; SEE REFLECTED CEILING PLAN

DOOR STYLE:
- BUTT HINGE, SOLID SLAB; SEE DOOR SCHEDULE

HARDWARE:
- SPECIFIED IN DOOR SCHEDULE; TO BE PROVIDED BY CONTRACTOR

ELECTRICAL:
- NONE

PLUMBING:
- NONE

CONFIDENTIAL

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NO.	REVISION/ISSUE	DATE
1	FOR DRAWING SET	08/13/15
2		
3		
4		
5		
6		

PROJECT NAME:

VA MILWAUKEE
Substance Abuse

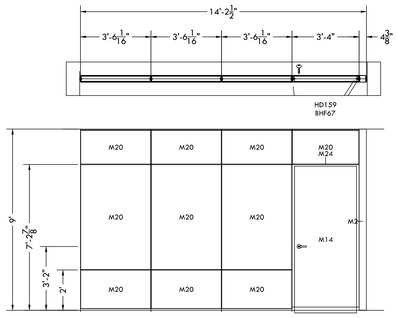
SHOP DRAWING

PROJECT ADDRESS:

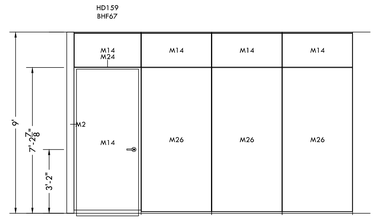
5000 W. National Ave
Milwaukee, WI 53295

Project Manager: Kevin Hurlebaus

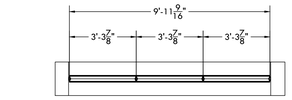
Drawn By: KCH
Date: 08.13.15
Scale: As Noted
SHEET: 1/4

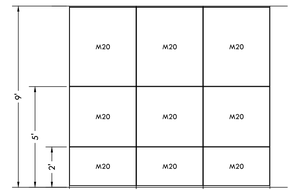


Elevation A

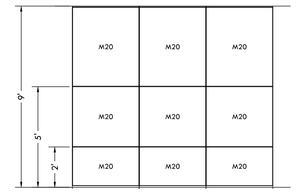


Elevation B

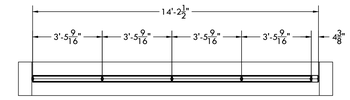


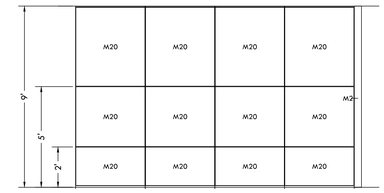


Elevation C

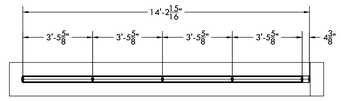


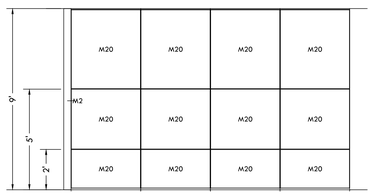
Elevation D





Elevation E





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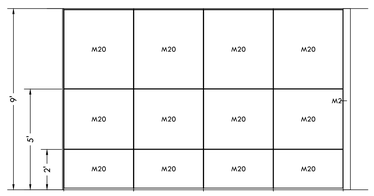

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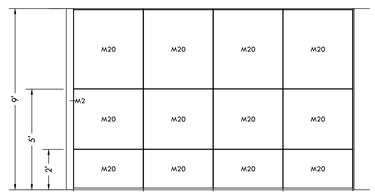

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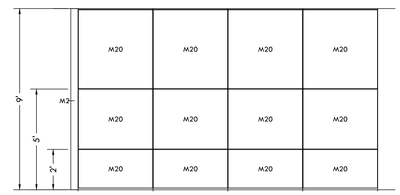

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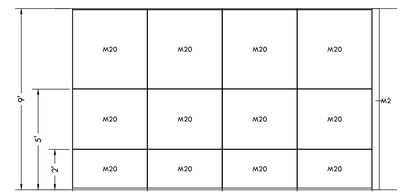

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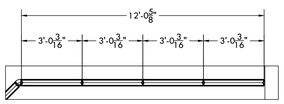

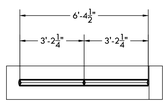

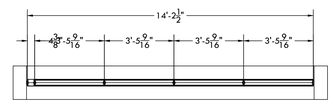

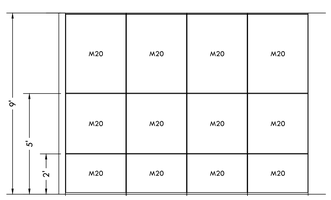

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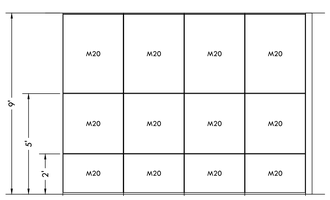

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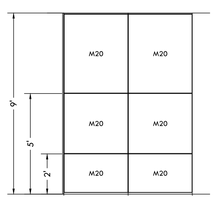

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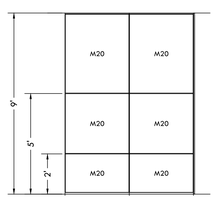

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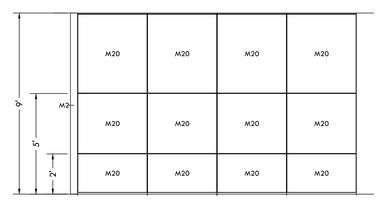

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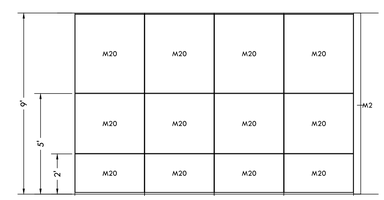

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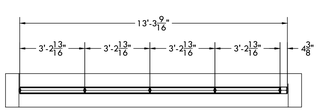

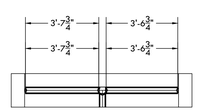

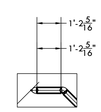

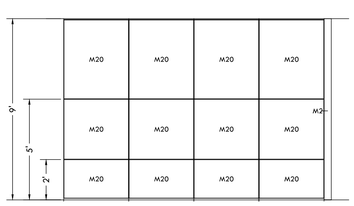

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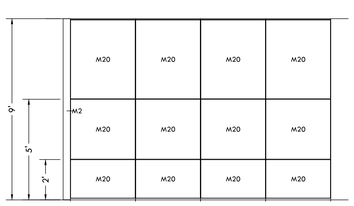

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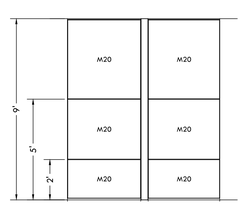

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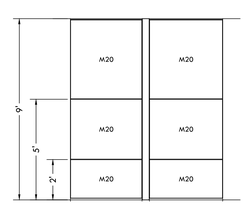

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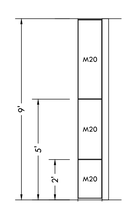

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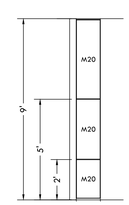

Elevation V

ELEVATIONS

SCALE: 3/8 " = 1'- 0"

DIRTT Door Schedule

Tag	Size	Handedness	Locking	Closer Type	Stopper	Finish Tag	Hardware	Hardware Center Location AFF
HD159	Height 7' - 3 1/2" X Width 3' - 1"	LH	Customers Own Material (Contractor to provide); see Hardware Schedule	Customers Own Material (Contractor to provide); see Hardware Schedule	Gerry DIRTT Peg (Wall Location)	M1, M14,	Customers Own Material (Contractor to provide)(Lock Set); see Hardware Schedule	Customers Own Material (Contractor to provide) (Lock Set)(3' - 2"); see Hardware Schedule

DIRTT Finish Schedule

Tag	Finish	Specification
M1	PWD	DIRTT Powder Coated Metallic; Powder Coat - Shimmer DPM50
M2	ANO	Grade 1 Anodized; Anodized Finish - Clear
M14	VEN	Veneer - Grade 2; Anigre ST-10251; Flat Cut
M20	PNT	Grade 1 - Standard; Chroma Coat - Rain Check DC49
M24	VEN	Veneer - Grade 2; Anigre ST-10251; Flat Cut
M25	VEN	Veneer - Grade 2; Anigre ST-10251; Flat Cut
M26	PNT	Grade 1 - Standard; Chroma Coat - Nuwhite DC19

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*Written dimensions have precedence over scale in all cases.

CLIENT APPROVAL

- ☐ APPROVED DRAWING PACKAGE
- ☐ APPROVED, AS NOTED
- ☐ REVISED, RESUBMIT

Authorized Signing Officer Date

This drawing represents DIRTT's interpretation of the design intent and serves as our shop drawings for manufacturing purposes. The details and scope in these drawings represent the product that will be produced by DIRTT Environmental Solutions and delivered to site. All additions, changes or deviations from this approval drawing package will be regarded as a change order and processed accordingly. Approval of this drawing package is one of the conditions precedent to commencement of manufacturing.

DIRTT Environmental Solutions

DIRTT

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Architect / Interior Design:
GUIDON DESIGN
905 N. Capitol Avenue #100, Indianapolis, IN 46204
P: 317.800.6388

End User:
VA | U.S. Department of Veterans Affairs
5000 W. National Ave, Milwaukee, WI 53295
P: 414.384.2000

GENERAL NOTES:

- NO SEISMIC REQUIRED

FRAME STYLE:
- CURVILINEAR, ANODIZED

BASE:
- GERRY, ANODIZED

TRIM FINISH:
- PVC ZIPPERS: SILVER
- PVC / GLASS WIPE: SILVER

FLOOR TYPE:
- CARPET

WALL HEIGHT:
- FULL HEIGHT: 9'- 0" AFF

CEILING TYPE:
- CEILING GRID; SEE REFLECTED CEILING PLAN

DOOR STYLE:
- BUTT HINGE, SOLID SLAB; SEE DOOR SCHEDULE

HARDWARE:
- SPECIFIED IN DOOR SCHEDULE; TO BE PROVIDED BY CONTRACTOR

ELECTRICAL:
- NONE

PLUMBING:
- NONE

CONFIDENTIAL

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NO.	REVISION/ISSUE	DATE
1	FOR DRAWING SET	08/13/15
2		
3		
4		
5		
6		

PROJECT NAME:

VA MILWAUKEE
Substance Abuse

SHOP DRAWING

PROJECT ADDRESS:

5000 W. National Ave
Milwaukee, WI 53295

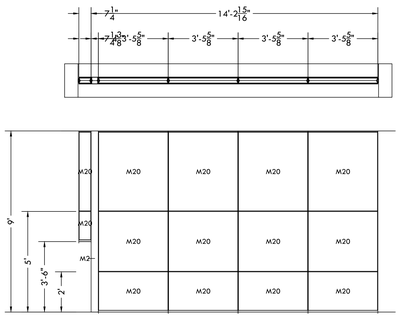
Project Manager: Kevin Hurlebaus

Drawn By: KCH

Date: 08.13.15

Scale: As Noted

SHEET: 2/4



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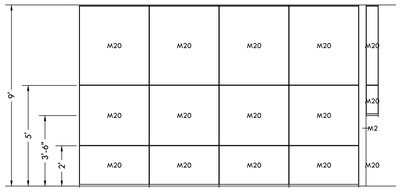

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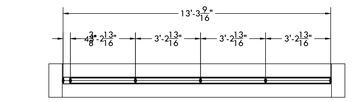

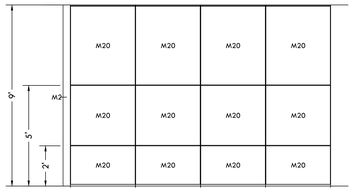

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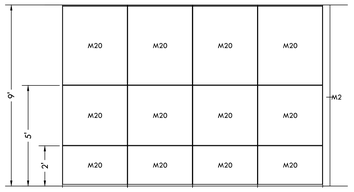

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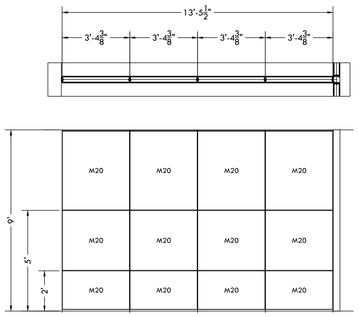

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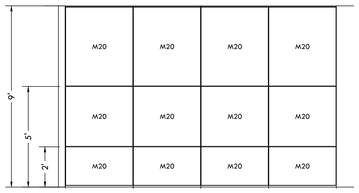

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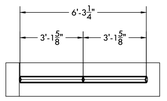

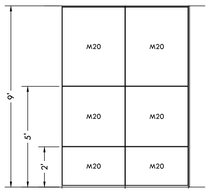

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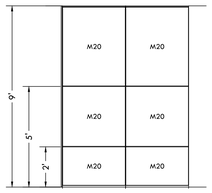

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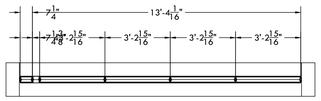

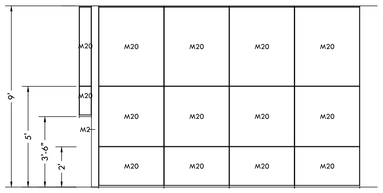

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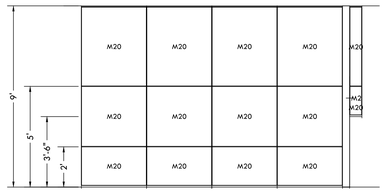

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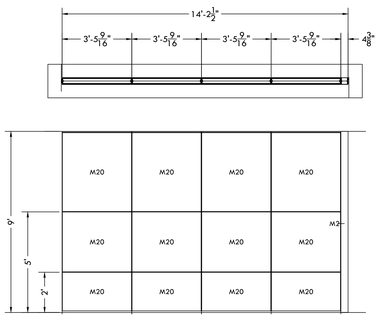

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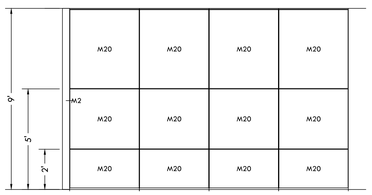

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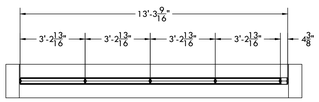

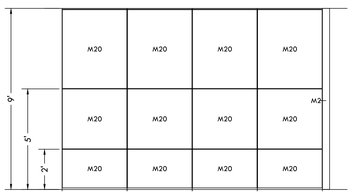

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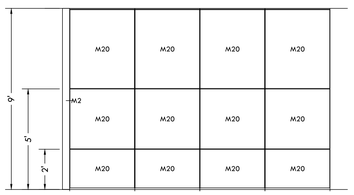

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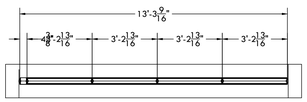

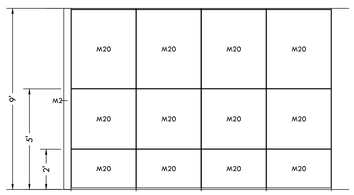

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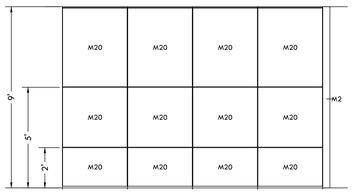

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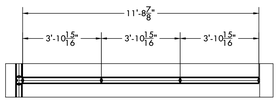

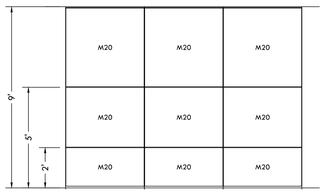

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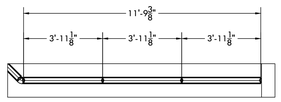

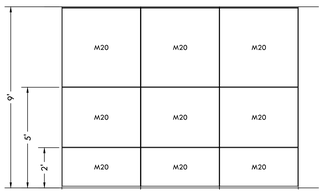

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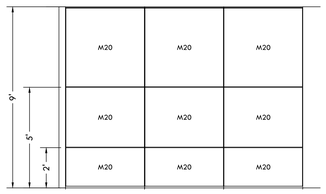

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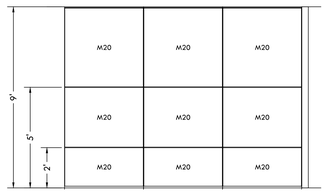

Elevation AP

ELEVATIONS

SCALE: 3/8 " = 1'- 0"

DIRTT Door Schedule

Tag	Size	Handedness	Locking	Closer Type	Stopper	Finish Tag	Hardware	Hardware Center Location AFF
HD159	Height 7' - 3 1/2" X Width 3' - 1"	LH	Customers Own Material (Contractor to provide); see Hardware Schedule	Customers Own Material (Contractor to provide); see Hardware Schedule	Gerry DIRTT Peg (Wall Location)	M1, M14,	Customers Own Material (Contractor to provide)(Lock Set); see Hardware Schedule	Customers Own Material (Contractor to provide) (Lock Set)(3' - 2"); see Hardware Schedule

DIRTT Finish Schedule

Tag	Finish	Specification
M1	PWD	DIRTT Powder Coated Metallic; Powder Coat - Shimmer DPM50
M2	ANO	Grade 1 Anodized; Anodized Finish - Clear
M14	VEN	Veneer - Grade 2; Anigre ST-10251; Flat Cut
M20	PNT	Grade 1 - Standard; Chroma Coat - Rain Check DC49
M24	VEN	Veneer - Grade 2; Anigre ST-10251; Flat Cut
M25	VEN	Veneer - Grade 2; Anigre ST-10251; Flat Cut
M26	PNT	Grade 1 - Standard; Chroma Coat - Nuwhite DC19

DIRTT

DIRTT Environmental Solutions Ltd.
7303 - 30th Street S.E., Calgary, AB Canada T2C 1N6
403.723.5000 Fax 403.723.6644 www.dirtt.net

Distribution Partner:
Lerdahl
P.O. Box 620586 - 7182 Highway 14 - Middleton, WI 53562
P: 608-831-1820 F: 608-831-1830
E: lerdahl@lerdahl.com

Architect / Interior Design:
GUIDON DESIGN
905 N. Capitol Avenue #100, Indianapolis, IN 46204
P: 317.800.6388

End User:
VA | U.S. Department of Veterans Affairs
5000 W. National Ave, Milwaukee, WI 53295
P: 414.384.2000

GENERAL NOTES:

- NO SEISMIC REQUIRED

FRAME STYLE:
- CURVILINEAR, ANODIZED

BASE:
- GERRY, ANODIZED

TRIM FINISH:
- PVC ZIPPERS: SILVER
- PVC / GLASS WIPE: SILVER

FLOOR TYPE:
- CARPET

WALL HEIGHT:
- FULL HEIGHT: 9'- 0" AFF

CEILING TYPE:
- CEILING GRID; SEE REFLECTED CEILING PLAN

DOOR STYLE:
- BUTT HINGE, SOLID SLAB; SEE DOOR SCHEDULE

HARDWARE:
- SPECIFIED IN DOOR SCHEDULE; TO BE PROVIDED BY CONTRACTOR

ELECTRICAL:
- NONE

PLUMBING:
- NONE

CONFIDENTIAL

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NO.	REVISION/ISSUE	DATE
1	FOR DRAWING SET	08/13/15
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3		
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6		

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*Written dimensions have precedence over scale in all cases.

CLIENT APPROVAL

- APPROVED DRAWING PACKAGE
- APPROVED, AS NOTED
- REVISED, RESUBMIT

Authorized Signing Officer Date

This drawing represents DIRTT's interpretation of the design intent and serves as our shop drawings for manufacturing purposes. The details and scope in these drawings represent the product that will be produced by DIRTT Environmental Solutions and delivered to site. All additions, changes or deviations from this approval drawing package will be regarded as a change order and processed accordingly. Approval of this drawing package is one of the conditions precedent to commencement of manufacturing.

DIRTT Environmental Solutions

PROJECT NAME:

VA MILWAUKEE
Substance Abuse

SHOP DRAWING

PROJECT ADDRESS:

5000 W. National Ave
Milwaukee, WI 53295

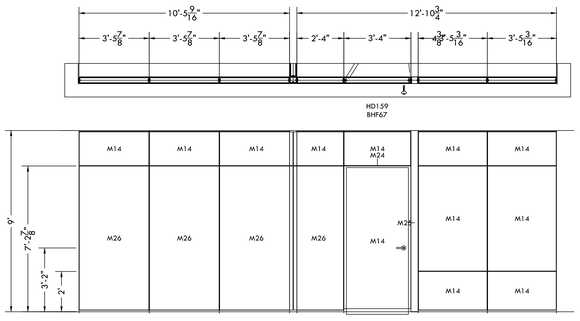
Project Manager: Kevin Hurlebaus

Drawn By: KCH

Date: 08.13.15

Scale: As Noted

SHEET: 3/4



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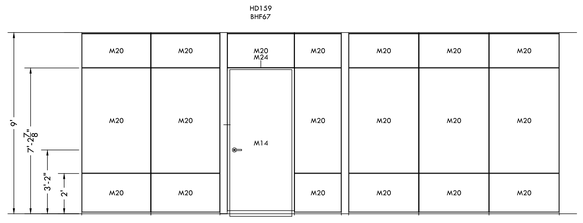

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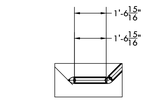

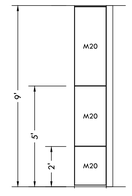

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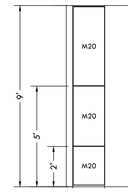

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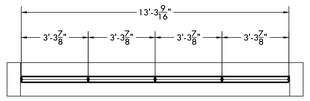

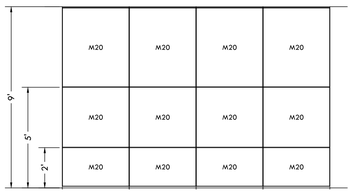

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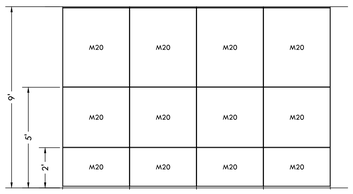
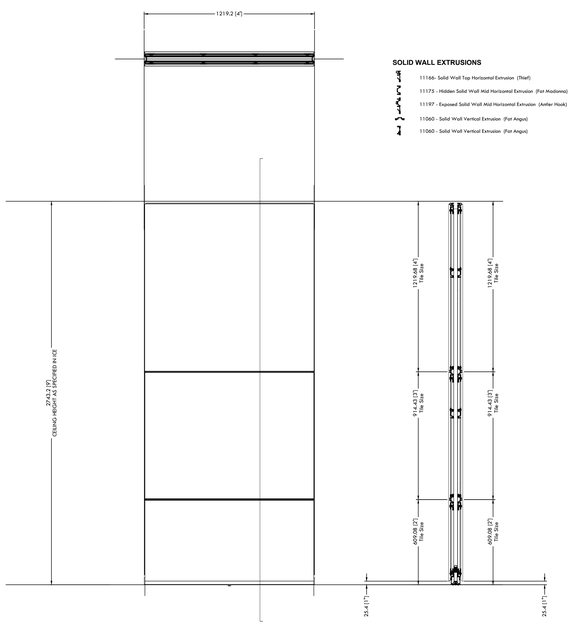


Elevation AV

ELEVATIONS

SCALE: 3/8 " = 1'- 0"



TYPICAL SOLID WALL SECTION

SCALE: NOT TO SCALE

DIRTT Door Schedule

Tag	Size	Handedness	Locking	Closer Type	Stopper	Finish Tag	Hardware	Hardware Center Location AFF
HD159	Height 7' - 3 1/2" X Width 3' - 1"	LH	Customers Own Material (Contractor to provide); see Hardware Schedule	Customers Own Material (Contractor to provide); see Hardware Schedule	Gerry DIRTT Peg (Wall Location)	M1, M14,	Customers Own Material (Contractor to provide)(Lock Set); see Hardware Schedule	Customers Own Material (Contractor to provide) (Lock Set)(3' - 2"); see Hardware Schedule

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- ☐ APPROVED, AS NOTED
- ☐ REVISED, RESUBMIT

Authorized Signing Officer Date

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NO.	REVISION/ISSUE	DATE
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PROJECT NAME:

VA MILWAUKEE
Substance Abuse

SHOP DRAWING

PROJECT ADDRESS:

5000 W. National Ave
Milwaukee, WI 53295

Project Manager: Kevin Hurlebaus

Drawn By: KCH

Date: 08.13.15

Scale: As Noted

SHEET: 4 / 4

PLUMBING ABBREVIATIONS

A/E	ARCHITECT / ENGINEER
AD	AREA DRAIN/ACCESS DOOR
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AG	AIR GAP
AP	ACCESS PANEL
AS	AUTOMATIC SPRINKLER
ASD	ADJUSTABLE SPEED DRIVES
ASD	AUTOMATIC SPRINKLER DRAIN
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
ASR	AUTOMATIC SPRINKLER RISER
AV	ACID VENT
AW	ACID WASTE
BFP	REDUCED PRESSURE BACKFLOW PREVENTER
BHP	BREAK HORSEPOWER
BSP	BLACK STEEL PIPE
BT	BATHTUB
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
C	CELSIUS
CA	COMPRESSED AIR
CGA	COMPRESSED GAS ASSOCIATION
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CO	CLEANOUT
CS	CLINICAL SINK
CV	CONTROL VALVE
DCW	DOMESTIC COLD WATER
DFU	DRAINAGE FIXTURE UNITS
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DHWS	DOMESTIC HOT WATER SUPPLY
DI	DEIONIZED WATER
DN	DOWN
DOE	DEPARTMENT OF ENERGY
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DWR	DRINKING WATER RETURN
DWS	DRINKING WATER SUPPLY
DWV	DRAIN WASTE VENT
EL	ELEVATION
EMCS	ENERGY MONOSERRAT AND CENTRAL SYSTEM
EPA	ENVIRONMENTAL PROTECTION AGENCY
EPACT	ENERGY POLICY ACT
ESC	ESCUTCHEON
ESH	EMERGENCY SHOWER
ET	EXPANSION TANK
EWH	ELECTRIC WATER HEATER
EWS	EYE WASH STATION
EWS/SH	EYE WASH/DRENCH SHOWER
EX	EXISTING
F	FAHRENHEIT
FCO	FLOOR CLEANOUT
FCW	FILTERED COLD WATER
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT (HOSE) CONNECTION
FM	FLOW METER
FOP	FUEL OIL PUMP
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FS	FLOOR SINK
FS	FLOW SWITCH
FU	FIXTURE UNITS
GAL	GALLON
GCO	GRADE CLEANOUTS
GE	GENERAL EVACUATION
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPR	GAS PRESSURE REGULATOR
GRS	GAS REGULATOR STATION
GT	GREASE TRAP
GVTR	GAS VENT THROUGH ROOF
GWH	GAS FIRED WATER HEATER
H&CW	HOT AND COLD WATER
HB	HOSE BIBB
HD	HUB DRAIN
HEX	HEAT EXCHANGER
HP	HORSEPOWER
HS	HAND SINK
HST	HOT WATER STORAGE TANK (DOMESTIC)
HWB	HOT WATER BOILER
HWCP	HOT WATER CIRCULATING PUMP
HWP	HOT WATER PUMP
HYD	HYDRANT
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
ICW	INDUSTRIAL COLD WATER
IHW	INDUSTRIAL HOT WATER
INV	INVERT
IPC	INTERNATIONAL PLUMBING CODE
IRW	IRRIGATION WATER
IW	INDIRECT WASTE
IWH	INSTANTANEOUS WATER HEATER
IWR	INDUSTRIAL WATER RETURN
IWS	INDUSTRIAL WATER SUPPLY
KW	KILOWATT
KWH	KILOWATT–HOUR
L/S	LITER PER SECOND
LA	LABORATORY AIR
LAV	LAVATORY
LBS/HR	POUNDS PER HOUR
LCW	LABORATORY COLD WATER
LHW	LABORATORY HOT WATER
LNG	LIQUID NATURAL GAS
LOX	LIQUID OXYGEN
LV	LABORATORY VACUUM
LW	LOW WATER
M	METER
MA	MEDICAL AIR
MAV	MANUAL AIR VENT
MBH	1000 BTUH
MED	MEDICAL
MER	MECHANICAL EQUIPMENT ROOM
MH	MANHOLE
MOU	MEMORANDUM OF UNDERSTANDING
MSB	MOP SERVICE BASIN
MV	MEDICAL VACUUM
N2	NITROGEN
N20	NITROUS OXIDE
NC	NORMALLY CLOSED
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOM	NOMINAL
NPW	NON POTABLE WATER
NTS	NOT TO SCALE
O2	OXYGEN
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFD	OVERFLOW DRAIN
OR	OPERATING ROOM
OVFL	OVERFLOW
IPC	INTERNATIONAL PLUMBING CODE
PA	PASCAL
PD	PRESSURE DROP OR DIFFERENCE
PDI	PLUMBING AND DRAINAGE INSTITUTE
PG	PRESSURE GAGE
PP	PLUMBING PUMP
PPM	PARTS PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ATMOSPHERE
PSIG	POUNDS PER SQUARE INCH GAGE
PTRV	PRESSURE TEMPERATURE RELIEF VALVE
PW	POTABLE WATER
RD	ROOF DRAIN
RDL	ROOF DRAIN LEADER
RL	ROOF LEADER
RP	RECIRCULATION PUMP
RO	REVERSE OSMOSIS WATER
RWL	RAIN WATER LEADER
SAN	SANITARY SEWER
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SCFM	STANDARD CUBIC FOOT/MINUTE
SCW	SOFTENED COLD WATER
SDMH	STORM DRAIN MANHOLE
SMH	SANITARY MANHOLE
SP	SUMP PUMP
SPR	SPRINKLER LINE
SQFT/SF	SQUARE FEET
SS	STAINLESS STEEL
ST	STORAGE TANK
SW	STORM WATER
TCV	TEMPERATURE CONTROL VALVE
TD	TEMPERATURE DIFFERENCE
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TSTAT	THERMOSTAT
TWR	TEMPERED WATER RETURN
TWS	TEMPERED WATER SUPPLY
TYP	TYPICAL
V	VENT
VAC	VACUUM
VB	VACUUM BREAKER
VCO	VACUUM CLEANER OUTLET
VP	VACUUM PUMP
VS	VENT STACK
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WG	WATER GAGE
WH	WALL HYDRANT
WH	WATER HEATER
WHA	WATER HAMMER ARRESTER
WL	WATER LINE
WM	WATER METER
WPD	WATER PRESSURE DROP
WS	WASTE STACK
WSFU	WATER SUPPLY FIXTURE UNITS
YCO	YARD CLEANOUT
YH	YARD HYDRANT
ZVB	ZONE VALVE BOX

PLUMBING PIPING SYMBOLS

- DOMESTIC COLD WATER, COLD WATER
- DOMESTIC HOT WATER, HOT WATER
- DOMESTIC HOW WATER RETURN, HOT WATER RETURN
- MEDICAL AIR
- MEDICAL VACUUM
- LABORATORY AIR
- LABORATORY VACUUM
- GENERAL EVACUATION
- ORAL EVACUATION
- INDUSTRIAL AIR
- DRAIN
- VENT (SANITARY)
- SOIL, WASTE, OR SANITARY SEWER
- SANITARY SEWER, BELOW GRADE
- STORM WATER
- STORM WATER, BELOW GRADE
- SOFTEN COLD WATER
- FILTERED COLD WATER
- DRINKING WATER SUPPLY
- DRINKING WATER RETURN
- TEMPERED WATER SUPPLY
- TEMPERED WATER RETURN
- NITROUS OXIDE
- OXYGEN
- NITROGEN
- NATURAL GAS
- NATURAL GAS, BELOW GRADE
- FUEL OIL DISCHARGE
- FUEL OIL SUPPLY
- FUEL OIL VENT
- FUEL OIL RETURN

GENERAL PLUMBING SYMBOLS

- DIRECTION OF PIPE PITCH (DOWN)
- DIRECTION OF FLOW
- ANCHOR
- REDUCER OR INCREASER
- ECCENTRIC REDUCER
- TOP CONNECTION, 45° OR 90°
- BOTTOM CONNECTION, 45° OR 90°
- SIDE CONNECTION
- CAPPED OUTLET
- RISE OR DROP IN PIPE
- UNION
- PIPE UP
- PIPE DOWN
- POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
- LIMIT OF DEMOLITION
- INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES
- FLOAT & THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES
- STRAINER
- THERMOMETER
- PRESSURE GAGE
- FLOW ELEMENT
- CLEAN OUT
- HOSE BIB
- FIXTURE OR PIPING TO BE REMOVED
- FIXTURE OR PIPING TO REMAIN

PLUMBING VALVE SYMBOLS

- GATE VALVE
- GLOBE VALVE
- GATE VALVE WITH 3/4 " HOSE ADAPTER
- CHECK VALVE
- ANGLE GLOBE VALVE
- BUTTERFLY VALVE
- BALL VALVE
- MODULATING CONTROL VALVE
- TWO POSITION CONTROL VALVE
- THREE-WAY MODULATING CONTROL VALVE
- THREE-WAY TWO POSITION CONTROL VALVE
- PRESSURE REGULATING VALVE
- AUTOMATIC FLOW CONTROL VALVE
- PRESSURE RELIEF VALVE
- MANUAL AIR VENT
- TEST PLUG (PRESSURE/TEMPERATURE)
- AUTOMATIC AIR VENT

PLUMBING DEMOLITION NOTES:

1. INFORMATION PERTAINING TO EXISTING PROJECT CONDITIONS, SUCH AS PRESENT LOCATIONS OF ARCHITECTURAL AND STRUCTURAL BUILDING COMPONENTS, MECHANICAL AND ELECTRICAL EQUIPMENT, PIPING, DUCTWORK, ROUGH–INS AND OTHER MISCELLANEOUS CONSTRUCTION APPEARS ON THE DRAWINGS. WHILE SUCH INFORMATION HAS BEEN BASED ON AVAILABLE RECORDS AND COLLECTED WITH REASONABLE CARE, THE ARCHITECT AND ENGINEER DOES NOT ASSUME ANY EXPRESSED OR IMPLIED GUARANTEE THAT CONDITIONS SO INDICATED ARE SHOWN ENTIRELY COMPLETE, CORRECT AND REPRESENTATIVE OF THOSE ACTUALLY EXISTING. ALL CONTRACTORS SHALL SATISFY THEMSELVES AS TO ALL EXISTING JOB CONDITIONS PRIOR TO BIDDING, AND VERIFY ALL DIMENSIONS AT THE SITE.
2. ALL EXISTING PLUMBING SHOWN HATCHED AND/OR DESIGNATED WITH AN "X" SHALL BE REMOVED. ALL PLUMBING NOT INDICATED TO BE REMOVED SHALL REMAIN.
3. EXISTING PIPING SHALL BE REMOVED BACK TO PIPING TO REMAIN. EXISTING PIPING SHALL NOT BE ABANDONED IN PLACE UNLESS APPROVED BY THE ENGINEER AND OWNER'S REPRESENTATIVE.
4. REPAIR PIPE INSULATION ON EXISTING PIPING WHERE DAMAGED BY DEMOLITION OR NEW WORK.
5. DEMOLITION WORK SHALL BE COORDINATED WITH PHASED CONSTRUCTION. PLUMBING FIXTURES LOCATED OUTSIDE OF THE CURRENT CONSTRUCTION PHASE SHALL REMAIN OPERATIONAL UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE.
6. REFER TO THE SPECIFICATIONS FOR CUTTING AND PATCHING REQUIREMENTS.
7. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING NECESSARY FOR THE WORK OF THIS CONTRACT UNLESS SPECIFICALLY INDICATED OTHERWISE WITHIN THE ARCHITECTURAL DRAWINGS OR SPECIFICATIONS.
8. ALL EXISTING BRANCH WASTE PIPING SERVING NEW FIXTURES SHALL BE RODDED AND FLUSHED BACK TO THE WASTE STACK OR BUILDING DRAIN TO INSURE PROPER DRAINAGE.
9. SEAL ALL EXISTING PIPE PENETRATIONS IN EXISTING CONSTRUCTION WHERE PIPING IS REMOVED. SEALED PENETRATIONS SHALL MATCH RATING OF THE CONSTRUCTION IN WHICH THEY OCCUR.
10. PLUMBING CONTRACTOR SHALL REMOVE, AND REINSTALL OR REPLACE, EXISTING CEILINGS AS REQUIRED FOR ACCESS TO PLUMBING SYSTEMS. THIS INCLUDES, CEILINGS ON THE FLOORS BELOW THE PROJECT AREA AND AREAS OUTSIDE THE PROJECT CONSTRUCTION LIMITS.
11. WHERE EXISTING PIPING IS REMOVED, REMAINING PIPING SHALL BE CAPPED BELOW FINISHED FLOORS, WITHIN WALLS AND ABOVE SUSPENDED CEILINGS.
12. SEE ARCHITECTURAL PLANS FOR PROJECT PHASING DRAWINGS AND NOTES.

DRAWING SYMBOLS

- 2 / PL105: DETAIL NUMBER; DRAWING NUMBER WHERE DRAWN
- A / PL105: SECTION LETTER; DRAWING NUMBER WHERE SHOWN
- 26–P 3: BUILDING NO. WHERE EQUIPMENT IS LOCATED.; EQUIPMENT ABBREVIATION (PUMP); PUMP NO.3 IN BUILDING NO.26; TYPICAL UNIT NO.

Revisions: | Date

VA U.S. Department of Veterans Affairs

CLEMENT J. ZABLOCKI VA MEDICAL CENTER
MILWAUKEE, WISCONSIN

WISCONSIN ROBERT J. WAGNER E-1230 MILWAUKEE, WI DESIGNER 9/30/2015

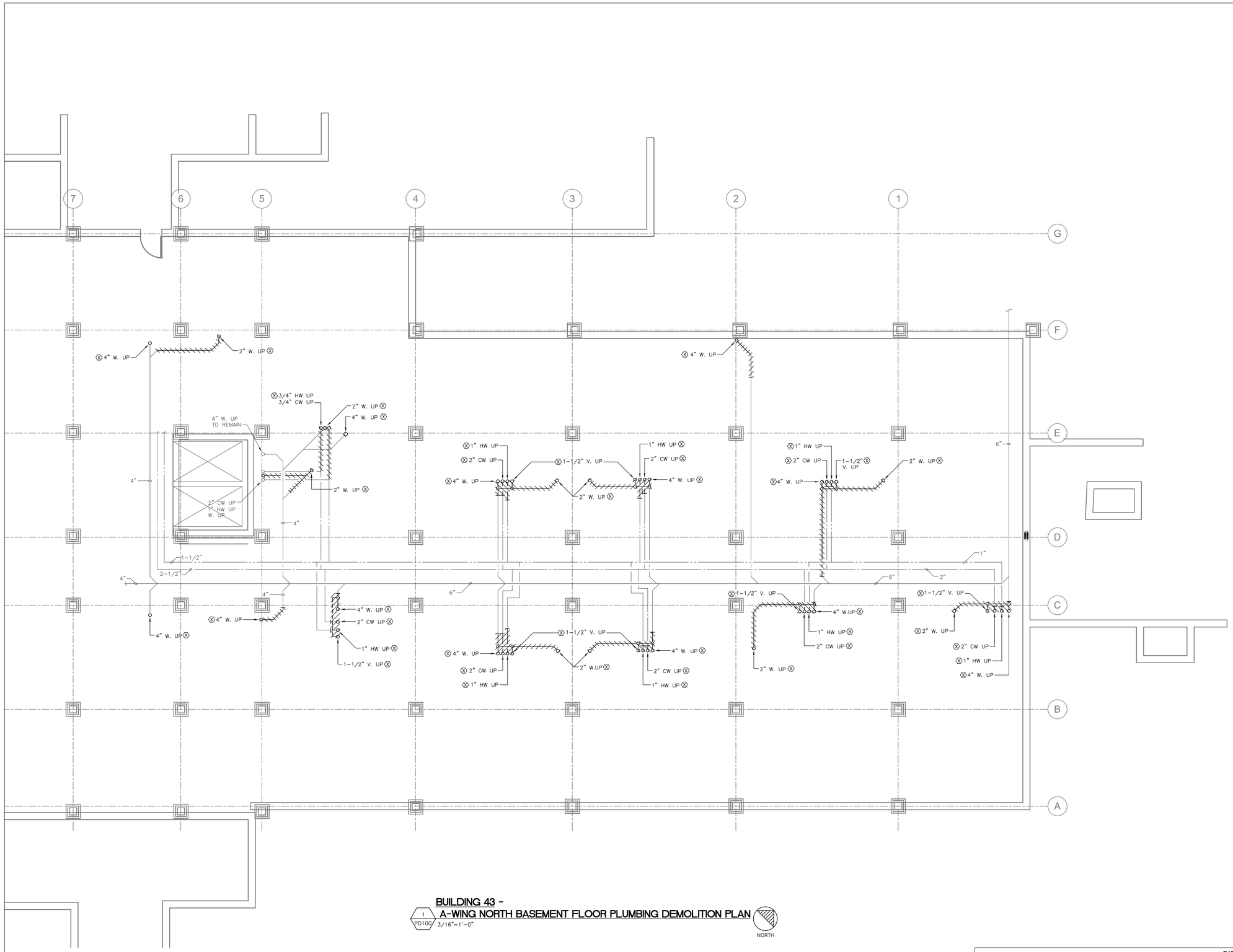
ARCHITECT/ENGINEERS:

PROJECT LEAD
Architect, Structural Engineer, Civil Engineer
GUIDON DESIGN
905 N. CAPITOL AVE. SUITE 100 INDIANAPOLIS, IN. 46204
317.800.6388 WWW.GUIDONDESIGN.COM
SUSTAINABLE ARCHITECTURE + ENGINEERING

MEP Engineer
RING & DUCHATEAU, LLP
17400 W. CAPITOL DRIVE
BROOKFIELD, WI 53045
(414) 778-1700

BID SET

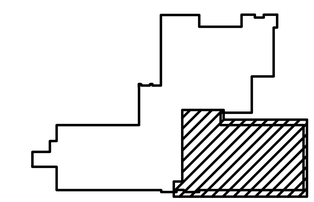
Drawing Title: PLUMBING SYMBOLS AND ABBREVIATIONS	Project Title: BUILDING 43 RENOVATE FOR SUBSTANCE ABUSE AND PSYCHOLOGY		Project Number: 14.1020.03; Building Number: #43	OFFICE OF FACILITIES MANAGEMENT
Approved for Design Concept: JAMES BEIER	Location: CLEMENT J. ZABLOCKI VAMC		Drawing Number: P000	VA Project Number: 695-15-118
	Date: 09/30/2015	Checked By: Robert Wagner; Drawn By: DMB		VA U.S. Department of Veterans Affairs



BUILDING 43 - A-WING NORTH BASEMENT FLOOR PLUMBING DEMOLITION PLAN

1 / PD100 — 3/16"=1'-0"

NORTH



KEY PLAN
NOT TO SCALE

Revisions:	Date

VA | U.S. Department of Veterans Affairs

CLEMENT J. ZABLOCKI VA MEDICAL CENTER
MILWAUKEE, WISCONSIN

WISCONSIN ROBERT J. WAGNER #1236 MILWAUKEE, WI DESIGNER 9/30/2015

ARCHITECT/ENGINEERS:

PROJECT LEAD
Architect, Structural Engineer, Civil Engineer
GUIDON DESIGN
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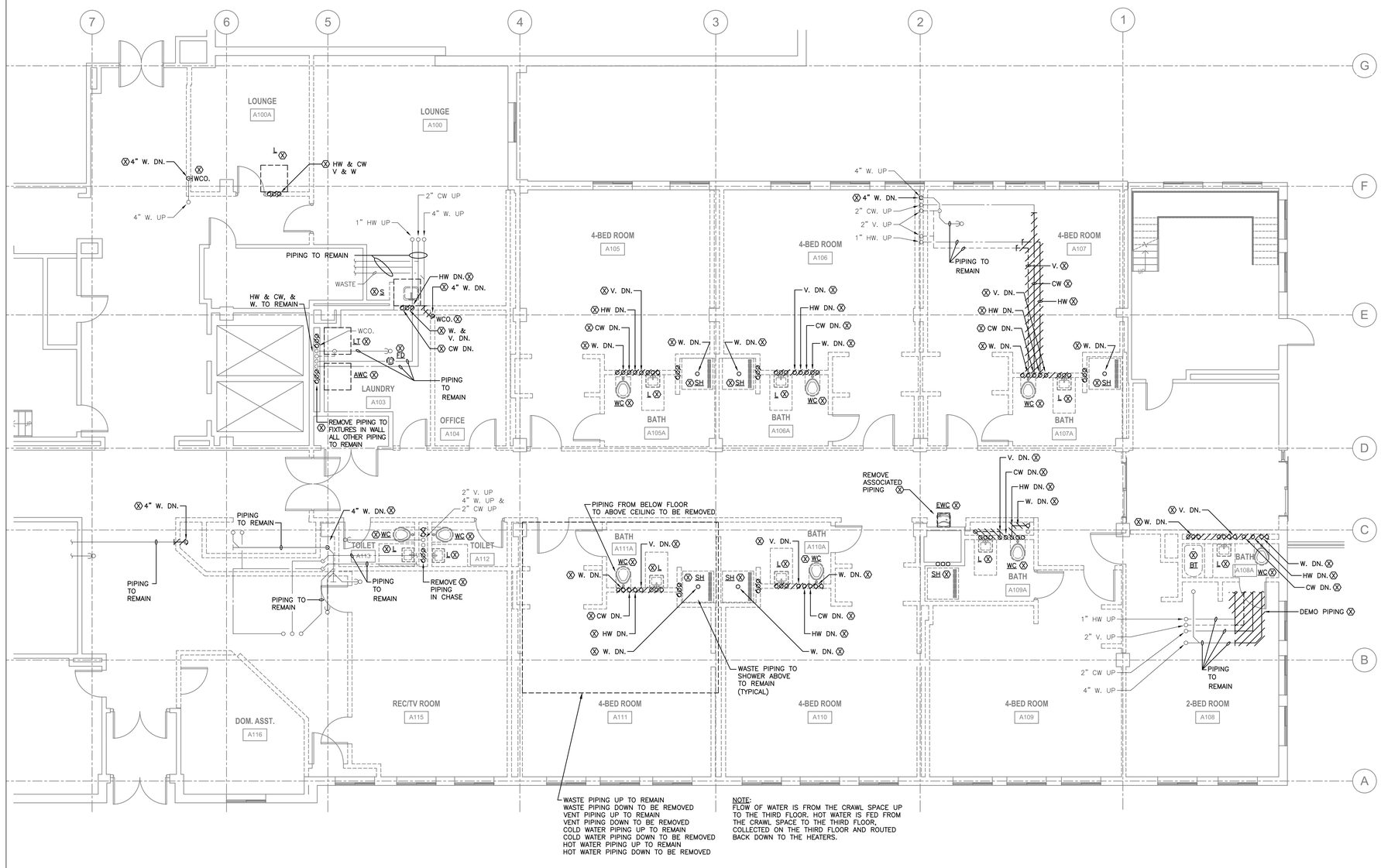
BID SET

Drawing Title: BASEMENT FLOOR PLAN - DEMOLITION	Project Title: BUILDING 43 RENOVATE FOR SUBSTANCE ABUSE AND PSYCHOLOGY	Project Number: 14.1020.03	OFFICE OF FACILITIES MANAGEMENT
		Building Number: #43	
Approved for Design Concept: JAMES BEIER	Location: CLEMENT J. ZABLOCKI VAMC	Drawing Number: PD100	VA Project Number: 695-15-118
	Date: 09/30/2015 — Checked By: Robert Wagner — Drawn By: DMB		VA | U.S. Department of Veterans Affairs



BUILDING 43 - A-WING NORTH FIRST FLOOR PLUMBING DEMOLITION PLAN

1 PD101 3/16"=1'-0"

NORTH

KEY PLAN
NOT TO SCALE

Revisions:	Date

VA | U.S. Department of Veterans Affairs

CLEMENT J. ZABLOCKI VA MEDICAL CENTER
MILWAUKEE, WISCONSIN

WISCONSIN ROBERT J. WAGNER # 1226 MILWAUKEE, WI DESIGNED 9/30/2015

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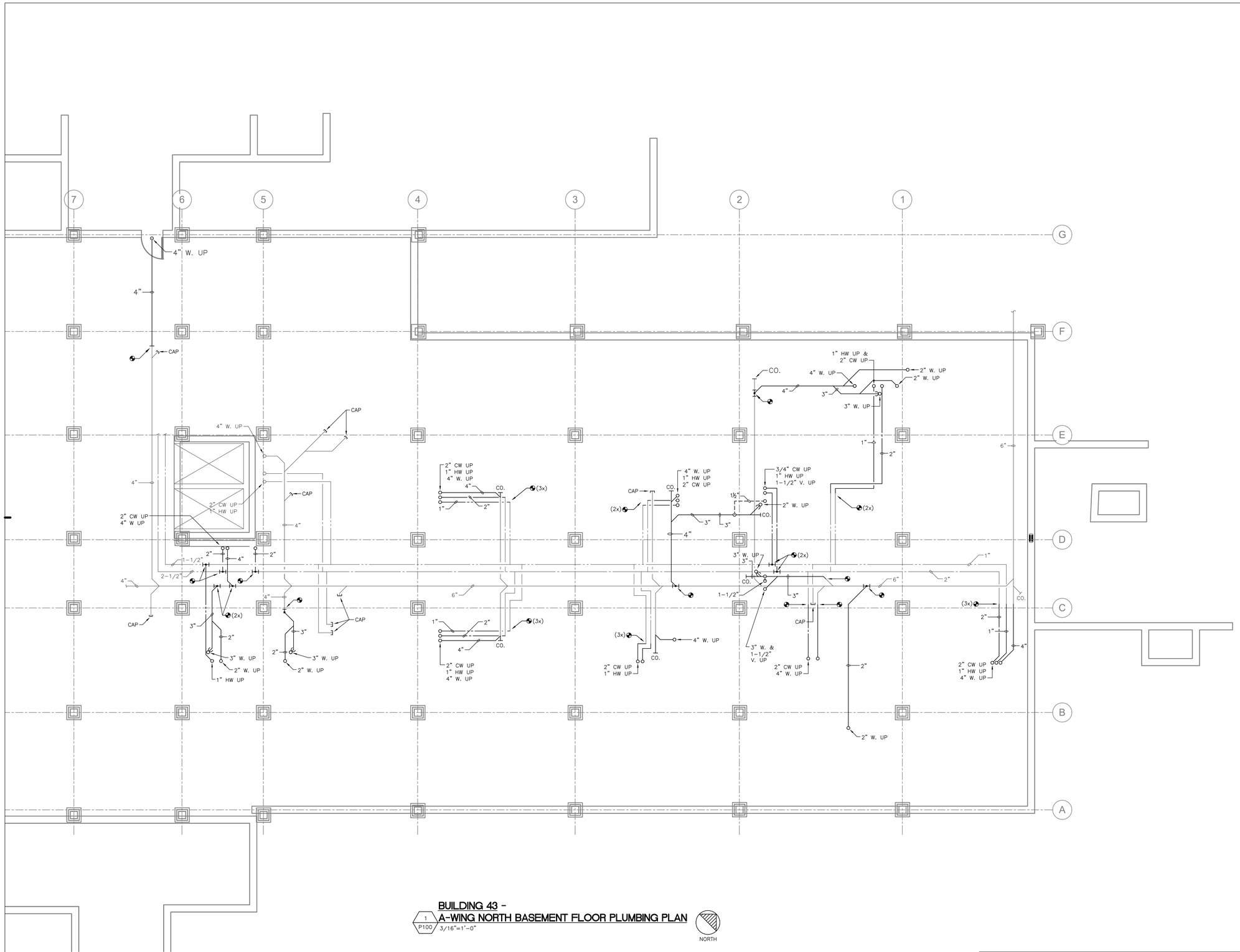
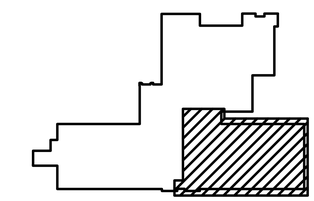
		Building Number: #43	
Approved for Design Concept: JAMES BEIER	Location: CLEMENT J. ZABLOCKI VAMC	Drawing Number: PD101	VA Project Number: 695-15-118
	Date: 09/30/2015 · Checked By: Robert Wagner · Drawn By: DMB		VA U.S. Department of Veterans Affairs



BUILDING 43 -
A-WING NORTH BASEMENT FLOOR PLUMBING PLAN

1 / P100 — 3/16"=1'-0"

NORTH



KEY PLAN
NOT TO SCALE

Revisions:	Date

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CLEMENT J. ZABLOCKI VA MEDICAL CENTER
MILWAUKEE, WISCONSIN

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BID SET

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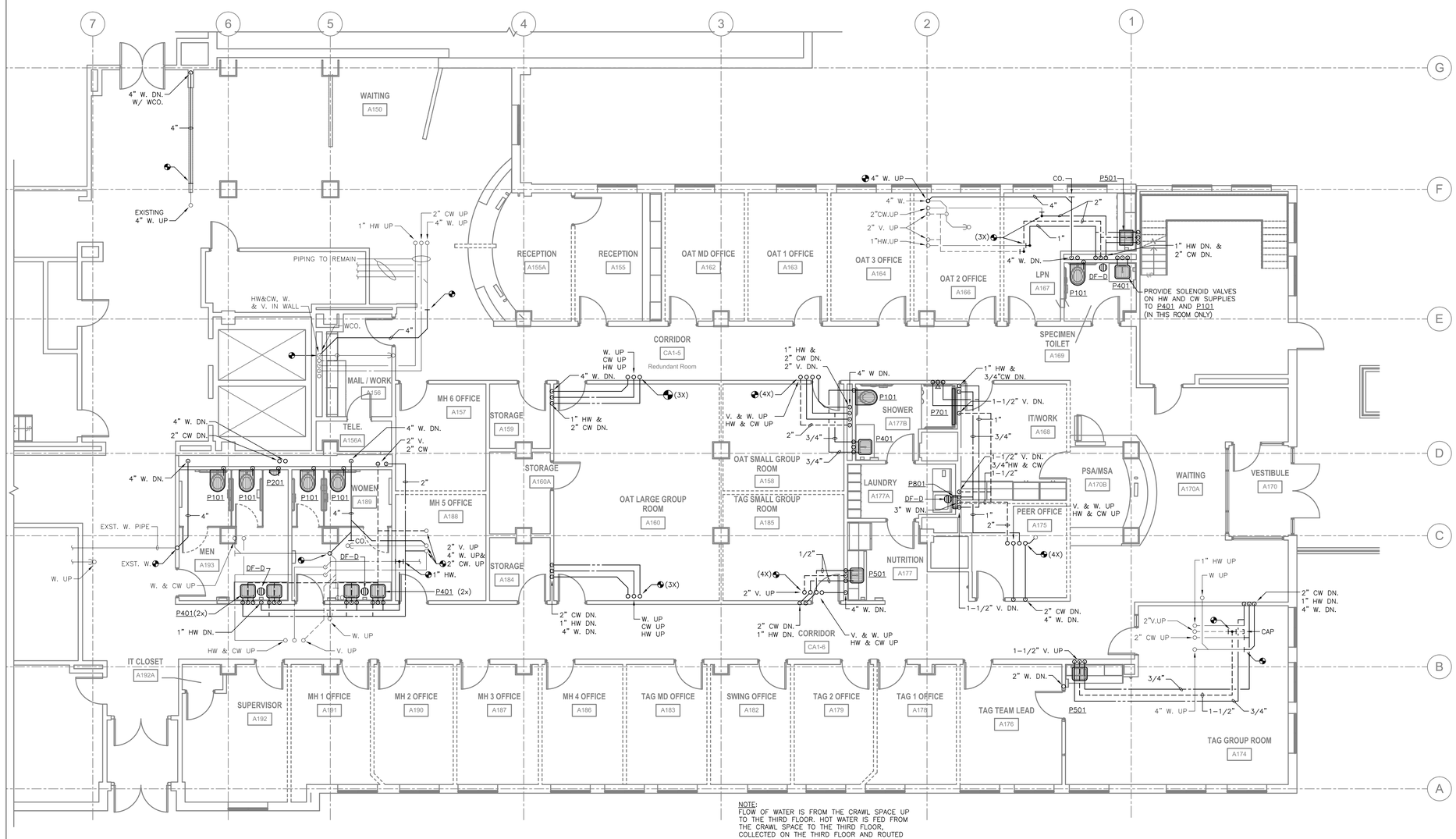
		Building Number: #43	
Approved for Design Concept: JAMES BEIER	Location: CLEMENT J. ZABLOCKI VAMC	Drawing Number: P100	VA Project Number: 695-15-118
	Date: 09/30/2015 — Checked By: Robert Wagner — Drawn By: DMB		VA — U.S. Department of Veterans Affairs



NOTE:
FLOW OF WATER IS FROM THE CRAWL SPACE UP TO THE THIRD FLOOR. HOT WATER IS FED FROM THE CRAWL SPACE TO THE THIRD FLOOR, COLLECTED ON THE THIRD FLOOR AND ROUTED BACK DOWN TO THE HEATERS.

BUILDING 43 - A-WING NORTH FIRST FLOOR PLUMBING PLAN

1 / P101 — 3/16"=1'-0"

NORTH

KEY PLAN
NOT TO SCALE

Revisions:	Date

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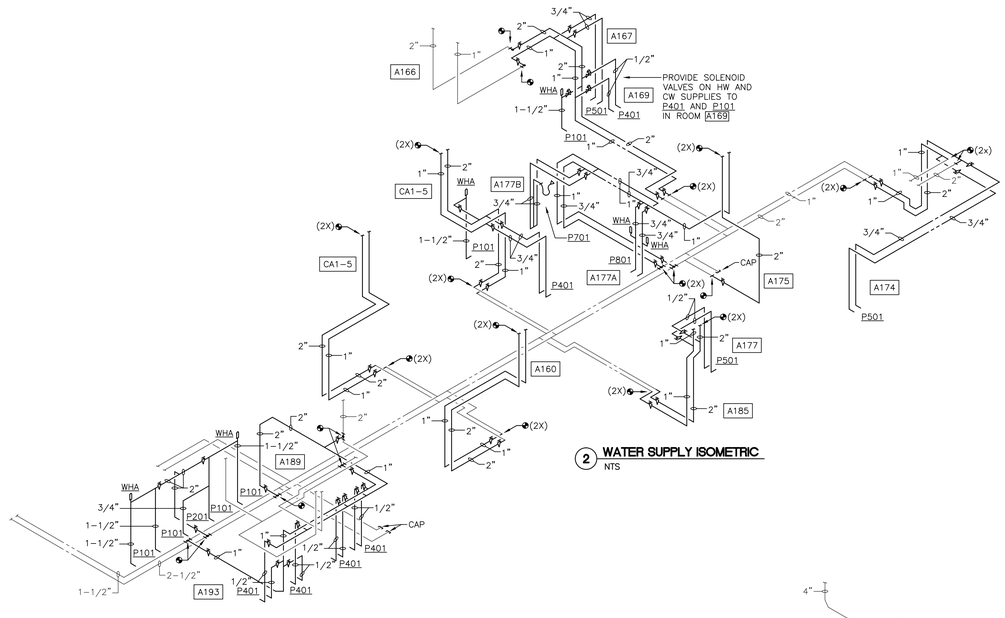
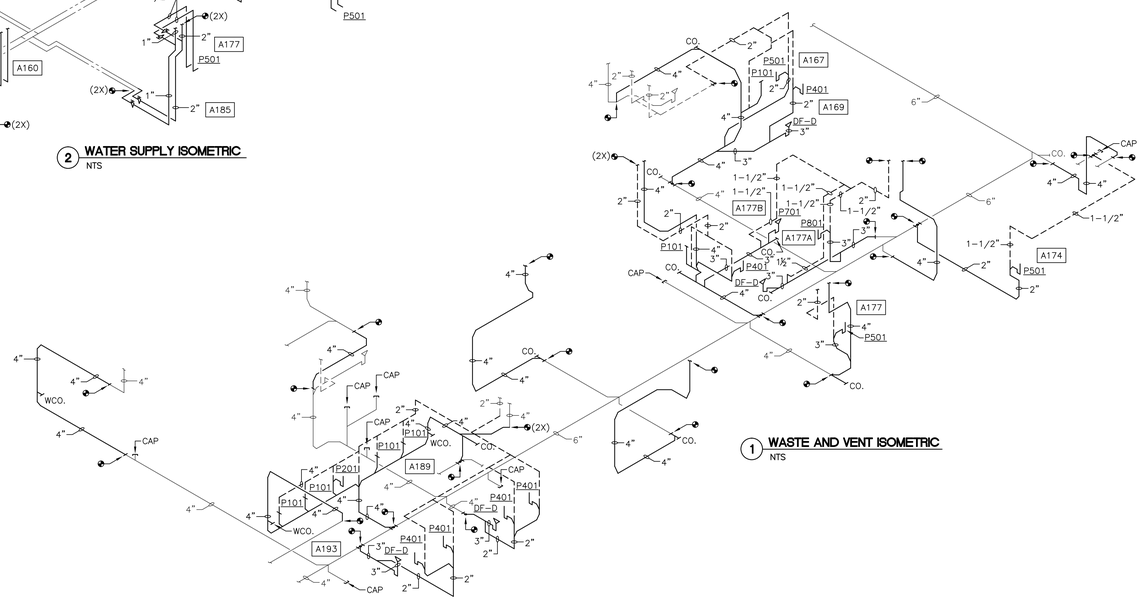
		Building Number: #43	
Approved for Design Concept: JAMES BEIER	Location: CLEMENT J. ZABLOCKI VAMC	Drawing Number: P101	VA Project Number: 695-15-118
	Date: 09/30/2015 — Checked By: Robert Wagner — Drawn By: DMB		VA — U.S. Department of Veterans Affairs



2 WATER SUPPLY ISOMETRIC
NTS



1 WASTE AND VENT ISOMETRIC
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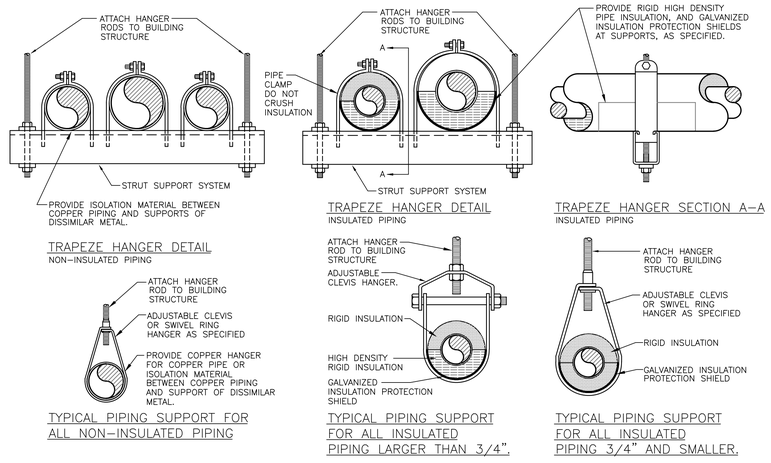
BID SET

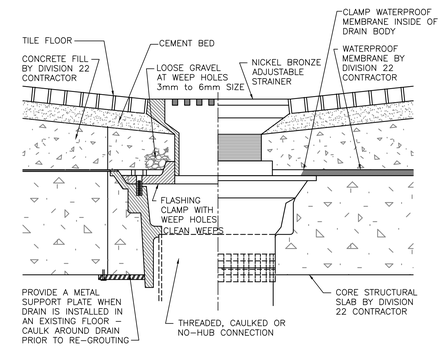
Drawing Title: PLUMBING ISOMETRICS	Project Title: BUILDING 43 RENOVATE FOR SUBSTANCE ABUSE AND PSYCHOLOGY	Project Number: 14.1020.03	OFFICE OF FACILITIES MANAGEMENT
		Building Number: #43	
Approved for Design Concept: JAMES BEIER	Location: CLEMENT J. ZABLOCKI VAMC	Drawing Number: P400	VA Project Number: 695-15-118
	Date: 09/30/2015 · Checked By: Robert Wagner · Drawn By: DMB		VA U.S. Department of Veterans Affairs

PLUMBING FIXTURE SCHEDULE

TAG NO.	MANUFACTURER	MODEL NO.	DESCRIPTION
P101			
WATER CLOSET	AMERICAN STANDARD	AFWALL 3351.528	ADA COMPLIANT, VITREOUS CHINA, WALL HUNG, ELONGATED BOWL, TOP SPUD, 1.28 GPF – COLOR WHITE.
SEAT	BEMIS	1955 SSC	ELONGATED, WHITE, OPEN FRONT LESS COVER, WITH STAINLESS STEEL SELF–SUSTAINING CHECK HINGE.
FLUSH VALVE	SLOAN	ROYAL 111–1.28	ADA EXPOSED FLUSH VALVE, 1.28 GPF
CARRIER	ZURN	Z1203–N	COMMERCIAL GRADE, ADJUSTABLE, FLOOR MOUNTED WITH SHORT FEET
P201			
URINAL	AMERICAN STANDARD	WASHBROOK 6590.001EC	ADA COMPLIMENT VITREOUS CHINA, WALL HUNG, 3/4" TOP SPUD, 0.125 GPF WASHDOWN FLUSHING ACTION – COLOR WHITE.
FLUSH VALVE	SLOAN	ROYAL 186–0.125	BATTERY POWERED, SENSOR OPERATED, EXPOSED FLUSH VALVE, 0.125 GPF
CARRIER	ZURN	Z1222	COMMERCIAL GRADE, FLOOR MOUNTED WITH SHORT FEET
P401			
LAVATORY	–	–	INTEGRAL WITH COUNTERTOP.
FAUCET	SLOAN	EAF–100–ISM	DECK MOUNTED BATTERY SENSOR OPERATED FAUCET, FOR HOT & COLD WATER SUPPLY, MODULAR ONE–PIECE CONSTRUCTION WITH ALL CONCEALED COMPONENTS ABOVE DECK, 6 VOLT PLUG–IN ADAPTER, INTEGRAL SPOUT TEMPERATURE MIXER AND 1.5 GPM VANDAL–RESISTANT AERATOR AND 4" DECK PLATE.
DRAIN	McGUIRE	155A	PERFORATED GRID STRAINER AND TAIL PIECE
TRAP W/ DRAINS	McGUIRE	PW 2150 WC	PRE–WRAPPED OFFSET DRAIN AND 1–1/2" P–TRAP WITH REDUCING SLIP NUT, TAIL–PIECE COVER, (2) SUPPLY COVERS AND CHROME ESCUTCHEON.
SUPPLIES	McGUIRE	H2165CC	1/2" x 3/8" HEAVY SUPPLIES WITH HANDLE STOPS.
P501			
SINK	KOHLER	NORTHLAND K–6589–U–0	SINGLE COMPARTMENT, ENAMELED FINISH CAST IRON, UNDER MOUNT SINK, 15"x 12–3/8" O.A., 7–5/8" DEEP.
DRAIN	KOHLER	K–8801–CP	BASKET STRAINER AND TAIL PIECE
FAUCET	CHICAGO FAUCET	786–XK–E29–CP	DECK MOUNTED FAUCET WITH RIGID GOOSENECK SPOUT, LAMINAR FLOW OUTLET, WRISTBLADE HANDLES, 8" CENTERS AND CERAMIC DISC CARTRIDGES, 1.5 GPM AERATOR.
TRAP	McGUIRE	PW 2150 WC	PRE–WRAPPED OFFSET DRAIN AND 1–1/2" P–TRAP WITH REDUCING SLIP NUT, TAIL–PIECE COVER, (2) SUPPLY COVERS AND CHROME ESCUTCHEON.
SUPPLIES	McGUIRE OR EQUAL	H2165CCLK	1/2" x ⅜" HEAVY SUPPLIES WITH LOOSE KEY STOPS.
P701			
VALVE	KOHLER	RIGHT TEMP PRESSURE–BALANCING VALVE K–304–KS–NA	ADA COMPLIANT: COMBINATION THERMOSTATIC AND PRESSURE BALANCING MIXING VALVE WITH INTEGRAL SERVICE STOPS AND ADJUSTABLE HOT WATER LIMIT STOP, AND CERAMIC VOLUME CONTROL.
TRIM	KOHLER	DEVONSHIRE RITE–TEMP K–T397–4–CP	HAND SPRAY UNIT WITH 5' HOSE, SPRAY HEAD, 30" VERTICAL SLIDE BAR, IN–LINE VACUUM BREAKER, WALL CONNECTION AND FLANGE.
	KOHLER	AWAKEN K–98351–CP	WALL MOUNTED SUPPLY ELBOW WITH CHECK VALVE
	KOHLER	AWAKEN G90 KIT K–98361	SLIDE BAR
DRAIN	LUXE LINEAR DRAIN	WEDGEWIRE WW–48	LINEAR TRENCH DRAIN.
SAFING			PROVIDE SAFING PER CODE UNLESS SPECIFICALLY DETAILED OR SPECIFIED IN OTHER CONTRACT DIVISIONS.
P801			
WASHING MACHINE SUPPLY & WASTE BOX	ACORN	8186–SSLF	RECESSED SUPPLY & WASTE BOX OF HEAVY GAUGE TYPE 304 STAINLESS STEEL, SATIN FINISH WITH WALL FLANGE, VALVES & HOSE CONNECTION FITTINGS & WASTE CONNECTION WITH TAILPIECE. PROVIDE WATER HAMMER ARRESTORS.



3 TYPICAL PIPE SUPPORT DETAILS
NTS



1 TYPE 'D' FLOOR DRAIN DETAIL
NTS

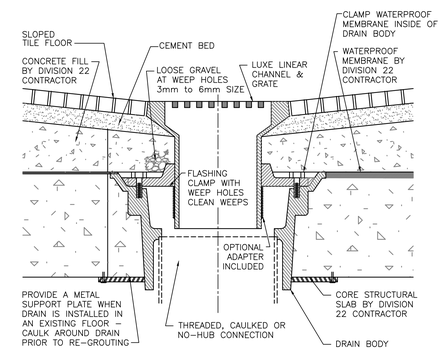
DRAIN SCHEDULE

TAG NO.	TYPE	LOCATION	MATERIAL: BODY	MATERIAL: TOP	MATERIAL: STRAINER	FLASHING CLAMP	MISC.	MODEL NO.
DF–D	FLOOR	FINISHED AREAS	C.I.	N.B.	5" N.B.	YES	–	ZURN ZN–415B

NOTE:
PROVIDE FLASHING FOR ALL DRAINS INSTALLED ABOVE GRADE.

CLEANOUT SCHEDULE

TAG	MATERIAL: BODY	MATERIAL: COVER	MATERIAL: FACE PLATE	ANCHOR PLATE	CONCRETE PAD	MISC.	TYPICAL MODEL NO.
CO	–	–	–	–	–	–	NO–HUB CAP
F.CO.	C.I.	P.B.	P.B.	–	–	–	ZURN ZB–1400
F.CO.	↓	N.B.	N.B.	–	–	–	ZURN ZN–1400
F.CO.	↓	P.B.	P.B.	–	–	W/ CARPET MARKER	ZURN ZB–1400–CM
F.CO.	↓	N.B./SQ.	N.B.	–	–	RECESSED FOR TILE	ZURN ZB–1400–TX
W.CO.	↓	BRASS	C.P.	–	–	–	ZURN Z–1441
CO. T.G.	↓	C.I.	C.I.	–	2'x2'x6"	–	PLUMBING CREATIONS CI–48–8 CAST IRON FROST SLEEVE



2 P701 DRAIN INSTALLATION DETAIL
NTS

Revisions: | Date

U.S. Department of Veterans Affairs

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BID SET

Drawing Title: PLUMBING DETAILS AND SCHEDULES	Project Title: BUILDING 43 RENOVATE FOR SUBSTANCE ABUSE AND PSYCHOLOGY	Project Number: 14.1020.03	OFFICE OF FACILITIES MANAGEMENT
		Building Number: #43	
Approved for Design Concept: JAMES BEIER	Location: CLEMENT J. ZABLOCKI VAMC	Drawing Number: P500	VA Project Number: 695-15-118
	Date: 09/30/2015	Checked By: Robert Wagner	Drawn By: DMB

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VALVE SYMBOLS

- GATE VALVE - THREADED/FLANGED
- GLOBE VALVE - THREADED/FLANGED
- GATE VALVE WITH 3/4" HOSE ADAPTER
- CHECK VALVE
- WYE STRAINER (WITH BALL VALVE & HOSE CONNECTION)
- WYE STRAINER WITH VALVED DRAIN AND QUICK-COUPLE HOSE CONNECTOR
- FLEXIBLE CONNECTION
- ANGLE GLOBE VALVE
- BUTTERFLY VALVE
- BALL VALVE
- MODULATING CONTROL VALVE
- MODULATING CONTROL BUTTERFLY VALVE
- TWO POSITION CONTROL VALVE
- THREE-WAY MODULATING CONTROL VALVE
- THREE-WAY TWO POSITION CONTROL VALVE
- PRESSURE REGULATING VALVE
- PRESSURE SAFETY VALVE
- AUTOMATIC BALANCING CONTROL VALVE
- WATER BALANCE DEVICE
- CIRCUIT SETTER VALVE
- GATE VALVE WITH GLOBE-VALVED BYPASS
- PLUG VALVE
- CONTROL VALVE (CV) - FLOAT-OPERATED
- PRESSURE REDUCING VALVE (PRV)
- LCP — WATER LEVEL CONTROLLER
- M — FLOW METER

CONTROLS SYMBOLS

- T — ROOM THERMOSTAT/TRANSMITTER - WALL MOUNT
- M — ROOM HUMIDISTAT (MOISTURE)/TRANSMITTER - WALL MOUNT
- TT — TEMPERATURE TRANSMITTER
- TT — TEMPERATURE TRANSMITTER, AVERAGING ELEMENT
- MT — MOISTURE (HUMIDITY) TRANSMITTER
- SD — SMOKE DETECTOR
- LTCP — LOCAL TEMPERATURE CONTROL PANEL
- HVAC — HVAC CONTROL PANEL
- VSMC — VARIABLE SPEED MOTOR CONTROLLER
- ECC — INTEGRATE CONTROL POINT ON REMOTE GRAPHICS WORKSTATION AT ENERGY CONTROL CENTER
- TC — TEMPERATURE CONTROLLER. SEE SEQUENCE OF OPERATION
- PC — PRESSURE CONTROLLER. SEE SEQUENCE OF OPERATION
- SC — SPEED CONTROLLER. SEE SEQUENCE OF OPERATION
- FC — FLOW CONTROLLER. SEE SEQUENCE OF OPERATION
- FSH — FLOW SWITCH HIGH
- FSL — FLOW SWITCH LOW
- TEMPERATURE SENSING ELEMENT FOR TRANSMITTING TEMPERATURE TO EMCS (PROVIDE 12 INCHES [200mm] MINIMUM LENGTH IN DUCT WHEN SPACE PERMITS.)
- A — SENSOR WITH AVERAGING ELEMENT TO TRANSMIT TEMPERATURE TO EMCS
- MOTOR STARTER
- M — ELECTRIC OPERATED CONTROL DAMPER/OR VALVE

AIR TERMINAL SYMBOLS

- TERMINAL UNIT WITH REHEAT COIL

TERMINAL UNIT SYMBOLS

- CONVECTOR OR RADIATOR (RECESSED)
- CONVECTOR OR RADIATOR (WALL HUNG)
- UNIT HEATER (HORIZONTAL)

GENERAL PIPING SYMBOLS

- DIRECTION OF PIPE PITCH (DOWN)
- DIRECTION OF FLOW
- ANCHOR
- REDUCER OR INCREASER
- ECCENTRIC REDUCER
- TOP CONNECTION, 45° OR 90°
- BOTTOM CONNECTION, 45° OR 90°
- SIDE CONNECTION
- CAPPED OUTLET
- RISE OR DROP IN PIPE
- UNION
- PIPE UP
- PIPE DOWN
- THERMOMETER
- PRESSURE GAGE
- FE — FLOW ELEMENT
- REFRIGERANT SIGHT GLASS

PIPING SYMBOLS

- HWS — HOT WATER HEATING SUPPLY
- HWR — HOT WATER HEATING RETURN
- CHS — CHILLED WATER SUPPLY
- CHR — CHILLED WATER RETURN
- D — DRAIN LINE
- V — VENT LINE
- X — EXISTING PIPE TO BE REMOVED

DUCTWORK SYMBOLS

- UP / DN — SUPPLY DUCT (UP & DOWN)
- UP / DN — EXHAUST DUCT (UP & DOWN)
- UP / DN — RETURN DUCT (UP & DOWN)
- ROUND AND SQUARE 4-WAY CEILING DIFFUSERS
- SQUARE 3-WAY CEILING DIFFUSERS
- SQUARE 2-WAY CEILING DIFFUSERS
- SQUARE 1-WAY CEILING DIFFUSERS
- SUPPLY TOP REGISTER OR GRILLE (WALL TYPE)
- EXHAUST OR RETURN CEILING REGISTER OR GRILLE
- EXHAUST OR RETURN BOTTOM REGISTER OR GRILLE (WALL TYPE)
- EXHAUST OR RETURN REGISTER OR TOP GRILLE (WALL TYPE)
- VANED ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF
- CONNECT NEW DUCT TO EXISTING DUCT
- R — INCLINED RISE, IN DIRECTION OF AIR FLOW
- D — INCLINED DROP, IN DIRECTION OF AIR FLOW
- LIMIT OF DEMOLITION
- FC — FLEXIBLE CONNECTION, EQUIPMENT, VIBRATION, OR SEISMIC
- VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)
- VANED ELBOW (SHORT RADIUS)
- STANDARD RADIUS ELBOW (LONG RADIUS)
- 10x8 — NEW DUCT (INSIDE DIMENSIONS: WIDTH x DEPTH)
- EXISTING DUCT TO REMAIN
- EXISTING DUCT TO BE REMOVED
- LOUVER (LOUVER SPECIFIED IN ARCHITECTURAL SECTION.)
- FLEXIBLE DUCTWORK (INSULATED)
- DUCT WITH SOUND LINING
- VD — MANUAL VOLUME DAMPER
- FD — FIRE DAMPER
- BDD — BACK DRAFT DAMPER
- F/S DPR, N — COMBINATION FIRE/SMOKE DAMPER
- MANUAL SPLITTER DAMPER
- 45°, SUPPLY; 45°, RETURN — STANDARD BRANCH SUPPLY OR RETURN, NO SPLITTER (45° TAP)

ABBREVIATIONS L-Z

L	LITER
L/h	LITERS PER HOUR (OR LITERS/HOUR)
L/m	LITERS PER MINUTE (OR LITERS/MINUTE)
L/s	LITERS PER SECOND (OR LITERS/SECOND)
LAT	LEAVING AIR TEMPERATURE
LBS/HR	POUNDS PER HOUR
LF	LINEAR FOOT (FEET)
LH	LATENT HEAT
LPR	LOW PRESSURE RETURN (STEAM CONDENSATE)
LPRC	LOW PRESSURE STEAM RETURN (CLEAN)
LPS	LOW PRESSURE STEAM
LPSC	LOW PRESSURE STEAM (CLEAN)
LSD	LINEAR SLOT DIFFUSER
LTCP	LOCAL TEMPERATURE CONTROL PANEL
LVG	LEAVING
LVR	LOUVER
LWT	LEAVING WATER TEMPERATURE
M	METER, SI UNIT
M/s	METERS PER SECOND (OR METERS/SECOND)
MA	MIXED AIR
MAT	MIXED AIR TEMPERATURE
MAU	MAKE-UP AIR UNIT
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MB	MIXING BOX
MBH	1000 BTUH
MCA	MINIMUM BRANCH CIRCUIT AMPACITY
MER	MECHANICAL EQUIPMENT ROOM
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MHP	MOTOR HORSEPOWER
MIN	MINIMUM
MM	MILLIMETER
MOV	MOTOR OPERATED VALVE
MPR	MEDIUM PRESSURE RETURN (STEAM CONDENSATE)
MPS	MEDIUM PRESSURE STEAM
MTD	MEAN TEMPERATURE DIFFERENCE
MVD	MANUAL VOLUME DAMPER
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NOAA	NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION
NOM	NOMINAL
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAG	OUTSIDE AIR GRILLE
OAI	OUTSIDE AIR INTAKE
OD	OUTSIDE DIAMETER
OR	OPERATING ROOM
P	PUMP
PA	PASCAL
PC	PUMPED CONDENSATE
PCF	POUNDS PER CUBIC FOOT (FEET)
PD	PRESSURE DROP
PF	PRE-FILTER
PG	PRESSURE GAGE
PHC	PREHEAT COIL
PPM	PARTS PER MILLION
PRS	PRESSURE REGULATING (VALVE) STATION
PRV	PRESSURE REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH – ABSOLUTE
PSIG	POUNDS PER SQUARE INCH – GAGE
PSS	PRIMARY SECONDARY SYSTEM
PSV	PRESSURE SAFETY VALVE
R/E	RETURN OR EXHAUST
RA	RETURN AIR
RAF	RADIO FREQUENCY
RAT	RETURN AIR TEMPERATURE
RDS	ROOM DATA SHEETS
REA	RELIEF AIR
RFF	RETURN FAN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RRLA	RUN LOAD AMPERE
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
RTU	ROOF TOP UNIT
RV	RELIEF VALVE
SA	SUPPLY AIR
SAD	SOUND ATTENUATING DEVICE
SAT	SUPPLY AIR TEMPERATURE
SC	SHADING COEFFICIENT
SCFM	STANDARD CUBIC FEET PER MINUTE
SD	SMOKE DETECTOR
SD	SUPPLY AIR DIFFUSER
SD-1	SCHEMATIC DESIGN (SUBMISSION1)
SD-2	SCHEMATIC DESIGN (SUBMISSION2)
SDPR	SMOKE DAMPER
SDR	SMOKE DAMPER (RETURN)
SDS	SMOKE DAMPER (SUPPLY)
SEN	SENSIBLE HEAT
SAF	SUPPLY FAN
SG	SUPPLY AIR GRILLE
SH	STEAM HUMIDIFIER
SHC	STEAM HEATING COIL
SI	SQUARE INCHES
SP	STATIC PRESSURE
SP GR	SPECIFIC GRAVITY
SPD	SUPPLY PROCESS AND DISTRIBUTION
SPRV	STEAM PRESSURE REDUCING VALVE
SPS	STATIC PRESSURE SENSOR
SQ FT	SQUARE FOOT (FEET)
SR	SUPPLY AIR REGISTER
SS	STAINLESS STEEL
ST	STEAM TRAP
SUH	STEAM UNIT HEATER
SV	STEAM PRESSURE REDUCING VALVE
T & PCV	TEMPERATURE AND PRESSURE CONTROL VALVE
TAB	TESTING, ADJUSTING, BALANCE
TD	TEMPERATURE DIFFERENCE
TDH	TOTAL DYNAMIC HEAD
TDS	TOTAL DISSOLVED SOLIDS
TG	TRANSFER GRILLE
TP	TRAP
TR	TOP REGISTER
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
UC	UNDER CUT
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
V	VALVE
VAF	VANE-AXIAL FAN
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER (MANUAL OPPOSED BLADE)
VFD	VARIABLE FREQUENCY DRIVE
VHA	VETERANS HEALTH ADMINISTRATION
VI	VIBRATION ISOLATOR
VPS	VARIABLE PRIMARY SYSTEM
VR	VACUUM (STEAM CONDENSATE) RETURN
VSMC	VARIABLE SPEED MOTOR CONTROLLERS
W	WATTS
WAG	WASTE ANETHESIA GAS
Wb	WET-BULB (TEMPERATURE)
WC	WATER COOLED
WFCV	WATER FLOW CONTROL VALVE
WFM	WATER FLOWMETER
WFMD	WATER FLOW MEASURING DEVICE
WG	WATER GAGE
WPD	WATER SIDE PRESSURE DROP
YR	YEAR
Z	INTENTIALLY LEFT BLANK

ABBREVIATIONS A-K

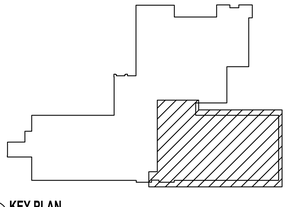
A/E	ARCHITECT / ENGINEER
AAHX	AIR TO AIR HEAT EXCHANGER
AB	AIR BLENDER
AAV	AUTOMATIC AIR VENT
ACD	AUTOMATIC CONTROL DAMPER,MODULATING
ACD-TP	AUTOMATIC CONTROL DAMPER,TWO POSITION
AD	ACCESS DOOR
AF	AFTER FILTER
AFCV	AIR FLOW CONTROL VALVE
AFF	ABOVE FINISHED FLOOR
AFMD	AIR FLOW MEASURING DEVICE
AHU	AIR-HANDLING UNIT
AMP	AMPERGE
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARI	AIR CONDITIONING AND REFRIGERATION INSTITUTE
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
BDD	BACKDRAFT DAMPER
BDR	BASE BOARD RADIATOR
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BW	BACKWARD INCLINED WHEEL (FAN)
BSC	BIOLOGICAL SAFETY CABINETS
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
C	CENTIGRADE (CELCIUS)
CC	COOLING COIL
CCD	COOLING COIL CONDENSATE DRAIN
CD	CEILING DIFFUSER
CD-1	CONSTRUCTION DOCUMENTS (SUBMISSION1)
CD-2	CONSTRUCTION DOCUMENTS (SUBMISSION2)
CFM	CUBIC FEET PER MINUTE
CFT	CUBIC FEET
CG	CEILING GRILLE
CHW	CHILLER WATER
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CI	CAST IRON
CM	CARBON MONOXIDE
CM	CUBIC METER
CM/S	CUBIC METER PER SECOND
CO	CLEAN OUT
CO2	CARBON DIOXODE
COP	COEFFICIENT OF PERFORMANCE
CP	CONDENSATE PUMP
CR	CEILING REGISTER
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME
CW	COLD WATER (POTABLE)
CWCC	CHILLED WATER COOLING COIL
D	DAMPER - AUTOMATIC
D-1	OUTDOOR AIR DAMPER
D-2	RETURN AIR DAMPER
D-3	RELIEF AIR DAMPER
DB	DECIBELS
Db	DRY-BULB TEMPERATURE
DD-1	DESIGN DEVELOPMENT (SUBMISSION1)
DD-2	DESIGN DEVELOPMENT (SUBMISSION2)
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE
DF	DIFFUSER
DIA	DIAMETER
DP	DEW POINT TEMPERATURE
DP	DIFFUSER PLATE
DPA	DIFFERENTIAL PRESSURE ASSEMBLY
DPS	DIFFERENTIAL PRESSURE SENSOR
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EH	EXHAUST HOOD
EJ	EXPANSION JOINT
EMD	END OF MAIN DRIP (STEAM)
ENT	ENTERING
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EX.	EXISTING
F	FAHRENHEIT
F&T	FLOAT AND THERMOSTATIC
F/SDPR	COMBINATION FIRE SMOKE DAMPER
FA	FREE AREA
FC	FLEXIBLE CONNECTION
FCW	FORWARD CURVED WHEEL (FAN)
FD	FLOOR DRAIN
FD	FIRE DAMPER
FF	FINAL FILTER
FM	FLOW METER
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH
FSTAT	FREEZESTAT
FT	FEET
FT-LB	FOOT-POUND
FTR	FIN TUBE RADIATION
FV	FACE VELOCITY
GA	GAUGE
GAL	GALLONS
GH	GRAVITY HOOD
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HUMIDIFER
H&CW	HOT & COLD WATER
HC	HEATING COIL
HD	HEAD
HOA	HAND/OFF/AUTOMATIC
HP	HORSEPOWER
HPDT	HIGH PRESSURE DRIP TRAP
HPR	HIGH PRESSURE RETURN (STEAM CONDENSATE)
HPS	HIGH PRESSURE SUPPLY (STEAM)
HSTAT	HUMIDISTAT
HTM	HUMIDIFIER TERMINAL
HUM	HUMIDIFIER UNIT MOUNTED
HVU	HEATING AND VENTILATING UNIT
HW	HOT WATER
HWC	HOT WATER COIL
HWHC	HOT WATER HEATING COIL
HWR	HEATING HOT WATER RETURN
HWS	HEATING HOT WATER SUPPLY
HWUH	HOT WATER UNIT HEATER
HZ	HERTZ
I/O	INPUT/OUTPUT
IAQ	INDOOR AIR QUALITY
IBT	INVERTED BUCKET TRAP
ICF	IN-LINE CENTRIFUGAL FAN
ICU	INTENSIVE CARE UNIT
ID	INSIDE DIAMETER
IFB	INTEGRAL FACE AND BYPASS
IN	INCHES
IN HG	INCHES OF MERCURY
IN WC	INCH WATER COLUMN
IN WG	INCH WATER GAUGE
IN-LB	INCH-POUND
IPLV	INTERGRATED PART LOAD VALUE
IS	INSECT SCREEN
J	INTENTIALLY LEFT BLANK
kg	KILOGRAM
kg/HR	KILOGRAM PER HOUR
kPa	KILOPASCAL
kW	KILOWATT
kWh	KILOWATT HOUR

DRAWING SYMBOLS

- 2 / MH101 — DETAIL NUMBER; DRAWING NUMBER WHERE DRAWN
- A / MH101 — SECTION LETTER; DRAWING NUMBER WHERE SHOWN
- VAV-3256 — ITEM (VAV BOX SHOWN); ROOM SERVING

GENERAL NOTES

1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
2. VERIFY THE PRESENCE OF EXISTING CONDUIT IN THE EXISTING FLOOR SLABS PRIOR TO BEGINNING WORK.
3. SEISMIC PROVISIONS NOT REQUIRED.
4. SEE PROJECT MANUAL FOR SPECIFICATIONS AND OTHER CONTRACT REQUIREMENTS.
5. SEE PIPING AND DUCTWORK DETAILS FOR LOCATIONS OF BALANCE AND SHUTOFF VALVES AND AIR BALANCING DAMPERS.
6. COORDINATE ANY SHUTDOWNS WITH OWNER. FIELD VERIFY CONDITIONS FOR RELOCATION/RECONNECTION OF WORK AND COORDINATE SCHEDULE WITH OWNER.
7. ALL REMOVED GRILLES, DUCTWORK, EQUIPMENT, ETC., THAT IS NOT TURNED OVER TO THE OWNER, BECOMES THE PROPERTY OF THIS CONTRACTOR WHO SHALL BE RESPONSIBLE FOR IT'S REMOVAL FROM THE JOBSITE.
8. SEE ARCHITECTURAL DRAWINGS FOR CEILING DEMOLITION AND REPLACEMENT WORK PROVIDED BY THE GENERAL CONTRACTOR. IF ADDITIONAL ROOMS REQUIRE CEILING DEMOLITION FOR HVAC WORK, THE HVAC CONTRACTOR SHALL REMOVE THE CEILINGS NECESSARY TO PERFORM HVAC WORK AND RESTORE THE CEILINGS TO NEW CONDITION WHEN THE WORK IS COMPLETED. COORDINATE WORK WITH OTHER SUCH THAT WORK IS MINIMIZED AND PREFORMED IN AN ORDERLY MANNER.
9. THE HVAC CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES, SIZES, CAPACITIES, ACCESSORIES, SEQUENCES, MATERIALS, MEANS AND METHODS, SPACE REQUIREMENTS, ACCESSIBILITY, CODE CLEARANCES, PERFORMANCE, FABRICATION PROCESSES, AND TECHNIQUES OF CONSTRUCTION FOR THE HVAC WORK. THE HVAC CONTRACTOR SHALL COORDINATE ALL HVAC WORK WITH THAT OF ALL OTHER TRADES, AND PERFORM ALL WORK IN A SAFE MANNER. THE HVAC CONTRACTOR IS SOLELY RESPONSIBLE FOR EQUIPMENT SUBSTITUTIONS AND CHANGES PERFORMED BY THE CONTRACTOR.
10. SEAL ALL PIPING AND DUCTWORK PENETRATIONS AIR TIGHT THRU WALLS, FLOORS, OR PARTITIONS IDENTIFIED AS SOUND WALLS, SMOKE TIGHT WALLS, FIRE RATED WALLS, SMOKE BARRIERS, SHAFTS OR FIRE RATED CONSTRUCTION INDICATED ON THE ARCHITECTURAL DRAWINGS. MAINTAIN ALL DESIGNATED FIRE RATINGS, SMOKE RATINGS AND UL LISTINGS.
11. SCAN FLOORS TO VERIFY THE PRESENCE OF EXISTING CONDUITS IN THE EXISTING FLOOR SLABS PRIOR TO ANY CUTTING OR CREATING ANY PENETRATIONS.
12. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE THE HARD SUSPENDED CEILING.
13. WATER PIPE CONNECTIONS TO AIR HEATING AND COOLING COILS SHALL BE MADE TO PROVIDE COUNTER FLOW BETWEEN WATER AND AIR.
14. PROVIDE ACCESS DOORS IN DUCTWORK AND ACCESS PANELS IN WALLS AND CEILINGS FOR ACCESS TO ALL CONCEALED EQUIPMENT INCLUDING BUT NOT LIMITED TO FIRE, SMOKE, & FIRE/SMOKE DAMPERS, TURNING VANES, CONTROL DAMPERS, BACKDRAFT DAMPERS, SMOKE DETECTORS, CONTROLS, CONTROL VALVES, SHUT-OFF VALVES, AIR VENTS, TRAPS, CLEANOUTS, AIR TERMINALS, EXPANSION COMPENSATING DEVICES, HEATING COILS, COOLING COILS, FILTERS, FANS. PROVIDE DUCT ACCESS DOORS AT ALL TURNING VANES LOCATED IN SUPPLY, RETURN AND EXHAUST DUCTWORK. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS.
15. DESIGN OF ALL HVAC SUPPORTS AND DUCT LINTELS IS THE RESPONSIBILITY OF THE HVAC CONTRACTOR.
16. ALL DUCTWORK AND PIPING INSULATION DAMAGED DURING CONSTRUCTION OR OTHERWISE SHALL BE PATCHED TO MATCH EXISTING AND MAINTAIN INSULATION VAPOR BARRIER.
17. INSTALL ALL DUCTWORK AND PIPING TO BEST SUIT FIELD CONDITIONS. DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED TO DETERMINE EXACT LOCATION. CERTAIN OFFSETS ARE SHOWN IN THE DUCTWORK AND PIPING TO INDICATE THE GENERAL POSITION AND RELATIONSHIP OF THE SYSTEMS. PROVIDE ADDITIONAL OFFSETS, SIMILAR TO THOSE SHOWN, AS REQUIRED BY FIELD CONDITIONS.
18. ALL DUCTWORK SHALL BE CONSTRUCTED OF SHEETMETAL EXCEPT FOR FLEXIBLE BRANCH DUCTS. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZES ARE NET INSIDE DIMENSIONS, ALL RECTANGULAR DUCTWORK DIMENSIONS ARE INTERIOR DIMENSIONS, ADJUST SHEET METAL SIZE FOR DUCT LINING WHERE APPLICABLE.
19. ALL BRANCH DUCTWORK TAKEOFFS SHALL BE EXPANDED AT 45° ANGLE, FOR BOTH HORIZONTAL AND VERTICAL TAKEOFFS.
20. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL EXACT AND FINAL LOCATIONS OF CEILING GRILLES AND DIFFUSERS.
21. BRANCH DUCTWORK TO GRILLES AND DIFFUSERS SHALL BE THE SAME SIZE AS THE INLET CONNECTIONS UNLESS NOTED OTHERWISE ON THE DRAWINGS. PROVIDE TRANSITIONS FOR TAKEOFFS FROM BRANCH DUCTWORK TO GRILLES AND DIFFUSERS AS REQUIRED, SEE GRILLE AND DIFFUSER SCHEDULES FOR INLET SIZES.
22. CONTRACTOR MAY USE SPIRAL ROUND DUCTWORK FOR RECTANGULAR TOILET AND MISCELLANEOUS EXHAUST DUCTWORK. ROUND DUCTWORK SHALL BE EQUIVALENT SIZE AS RECTANGULAR DUCT.
23. CONTRACTOR MAY USE UP TO SIX (6) FEET OF FLEXIBLE DUCT FOR CONNECTION OF GRILLES TO DUCTWORK. ONLY ONE (1) 90° BEND ALLOWED PER SECTION OF FLEX. FLEXIBLE DUCTWORK SHALL NOT BE USED IN 1 HOUR FIRE RATED ROOMS.
24. ALL FIRE DAMPERS SHALL BE TWO (2) HOUR RATED UNLESS NOTED OTHERWISE.
25. BALANCE/REBALANCE GRILLES AND DIFFUSERS TO AIR QUANTITIES SHOWN DRAWINGS.COORDINATE WORK WITH TESTING & BALANCING CONTRACTOR.
26. WHEN THERE ARE CONFLICTING STATEMENTS OR CONFLICTING INFORMATION IN BIDDING DOCUMENTS, THE BIDDER SHALL BASE HIS BID ON THE CONFLICT, WHICH WILL RESULT IN THE HIGHEST COST. IN THE CASE OF CONFLICTS OR DISCREPANCIES WITHIN OR AMONG THE CONTRACT DRAWINGS, THE BETTER QUALITY, MORE STRINGENT REQUIREMENTS OR GREATER QUANTITY OF WORK, AS DETERMINED BY THE GOVERNMENT, SHALL BE PROVIDED.



KEY PLAN
NOT TO SCALE

Revisions:	Date

VA — U.S. Department of Veterans Affairs

CLEMENT J. ZABLOCKI VA MEDICAL CENTER
MILWAUKEE, WISCONSIN

WISCONSIN MICHAEL J. JUSHKA E-35472 MILWAUKEE, WI PROFESSIONAL ENGINEER — HVAC — 9.30.15

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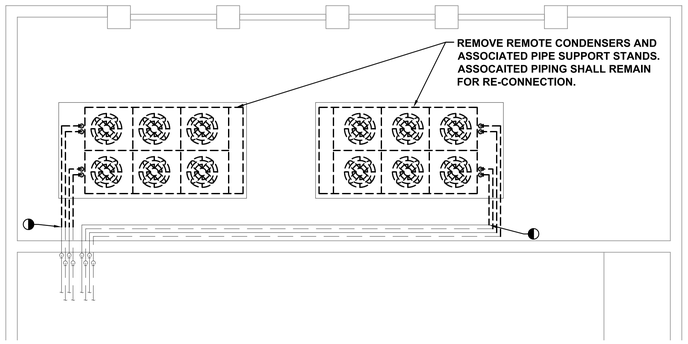
BID SET

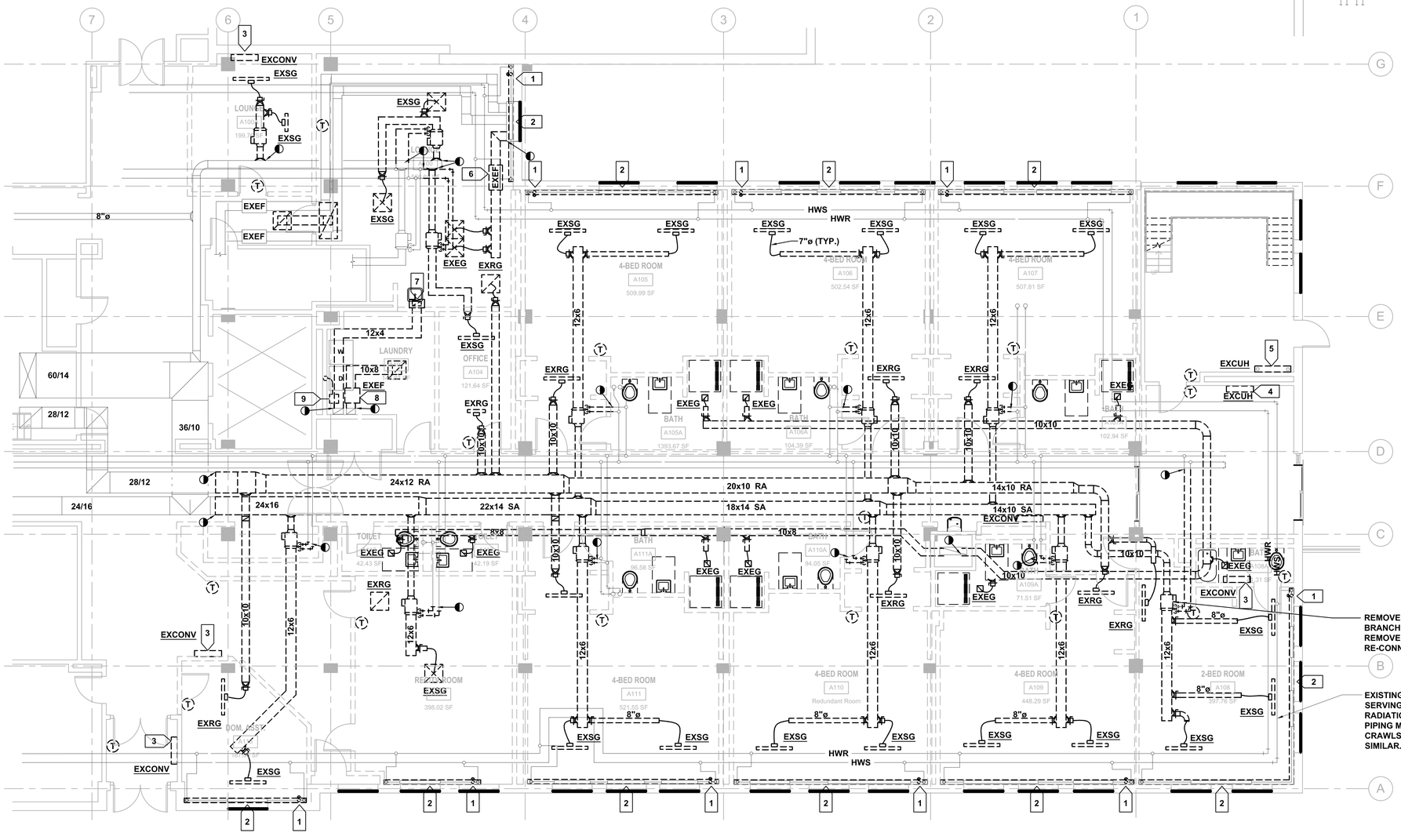
Drawing Title: HVAC Abbreviations and Symbols	Project Title: BUILDING 43 RENOVATE FOR SUBSTANCE ABUSE AND PSYCHOLOGY	Project Number: 14.1020.03 / Building Number: #43	OFFICE OF FACILITIES MANAGEMENT
Approved for Design Concept: JAMES BEIER	Location: CLEMENT J. ZABLOCKI VAMC	Drawing Number: M000	VA Project Number: 695-15-118
	Date: 09/30/2015 · Checked By: Michael Jushka · Drawn By: MJJ		VA — U.S. Department of Veterans Affairs



2 MD101 BUILDING 43 – PARTIAL A–WING SOUTH BASEMENT HVAC DEMOLITION PLAN

3/16"=1'–0"

NORTH



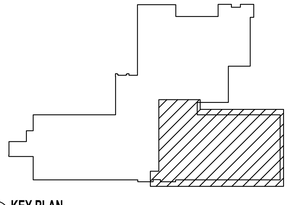
1 MD101 BUILDING 43 – A–WING NORTH FIRST FLOOR HVAC DEMOLITION PLAN

3/16"=1'–0"

NORTH

KEYED NOTES -

1. REMOVE FOR REPLACEMENT FINNED TUBE RADIATION (FTR) PNEUMATIC CONTROL VALVES. REMOVE FOR REPLACEMENT BALL VALVES IN BRANCH PIPING SERVING FTR. FINNED PIPE ELEMENT AND ASSOCIATED PIPING TO MAINS IN CRAWLSPACE BELOW SHALL REMAIN FOR RE-CONNECTION.
2. REMOVE FOR REPLACEMENT CONTINUOUS WALL-TO-WALL FTR CABINET COVER.
3. REMOVE CONVECTOR AND ALL ASSOCIATED CONTROLS AND PIPING. CAP PIPING AT MAINS IN CRAWLSPACE BELOW. LOCATION OF MAINS IN CRAWLSPACE ARE SIMILAR TO THOSE SHOWN ON THIS PLAN.
4. REMOVE CABINET UNIT HEATER AND ALL ASSOCIATED CONTROLS AND PIPING. CAP PIPING AT MAINS IN CRAWLSPACE BELOW. LOCATION OF MAINS IN CRAWLSPACE ARE SIMILAR TO THOSE SHOWN ON THIS PLAN.
5. REMOVE FOR REPLACEMENT CABINET UNIT HEATER AND ALL ASSOCIATED CONTROLS. REMOVE FOR REPLACEMENT BALL VALVES IN BRANCH PIPING SERVING UNIT. PIPING TO MAINS IN CRAWLSPACE BELOW SHALL REMAIN FOR RE-CONNECTION.
6. REMOVE EXHAUST FAN AND ALL ASSOCIATED DUCTWORK AND CONTROLS. BLANK-OFF BACK OF LOUVER WITH INSULATED SHEET METAL PANEL WEATHERTIGHT.
7. REMOVE RESIDENTIAL KITCHEN OVEN HOOD AND ASSOCIATED 12/4 DUCTWORK. CAP DUCT ABOVE CEILING AT RISER.
8. REMOVE EXHAUST FAN AND ALL ASSOCIATED DUCTWORK AND CONTROLS. CAP DUCT ABOVE CEILING AT RISER.
9. REMOVE 4" DIA. DRYER VENT EXHAUST DUCT AND LINT BOX. CAP DUCT ABOVE CEILING AT RISER.



KEY PLAN
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Revisions:	Date

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CLEMENT J. ZABLOCKI VA MEDICAL CENTER
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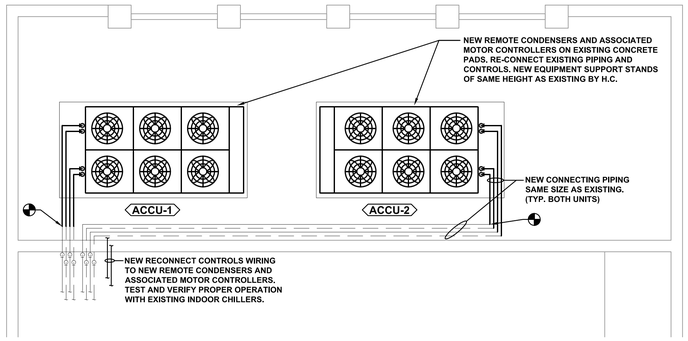
BID SET

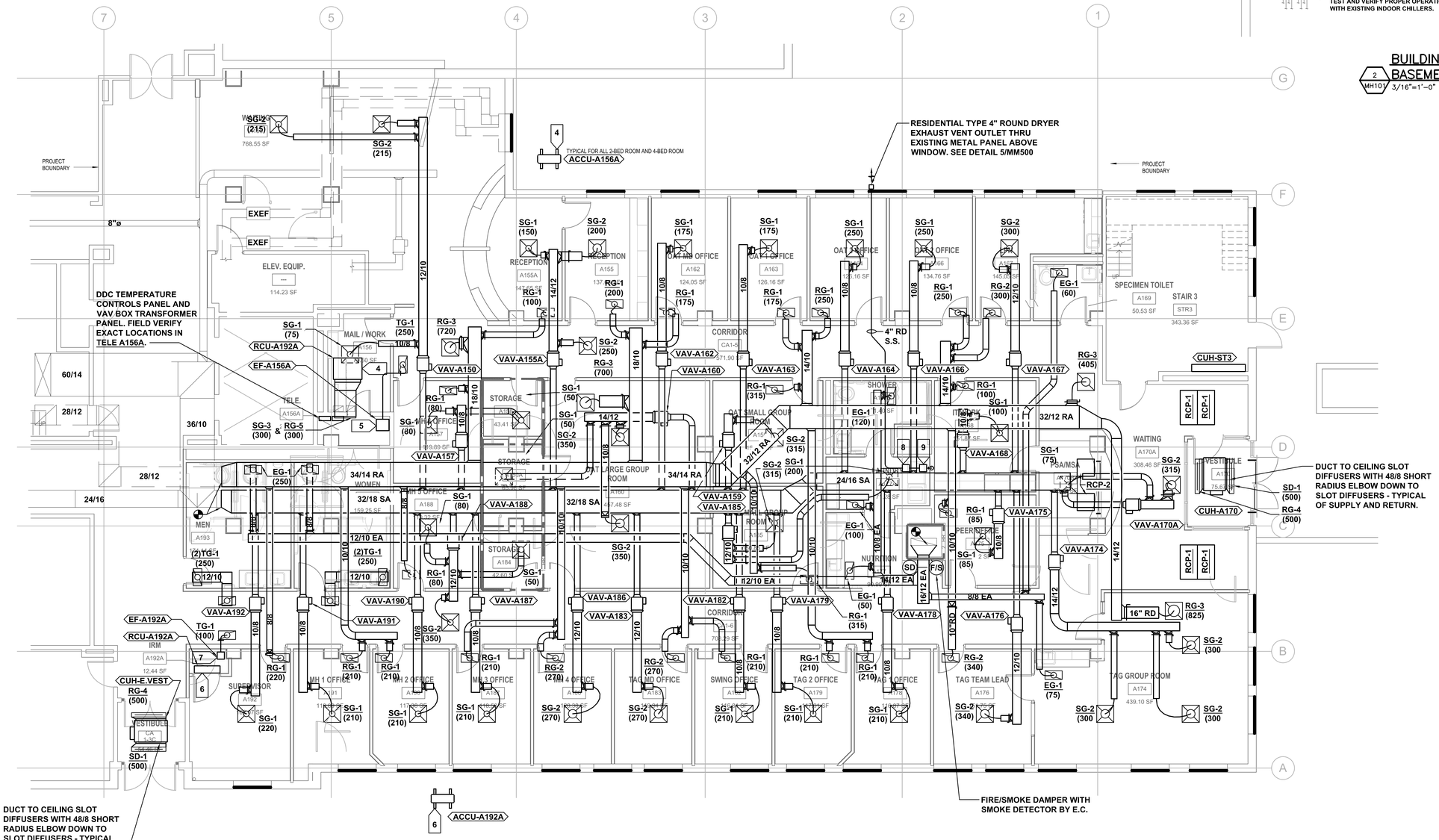
Drawing Title: First Floor HVAC Demolition Plans	Project Title: BUILDING 43 RENOVATE FOR SUBSTANCE ABUSE AND PSYCHOLOGY	Project Number: 14.1020.03	OFFICE OF FACILITIES MANAGEMENT
		Building Number: #43	
Approved for Design Concept: JAMES BEIER	Location: CLEMENT J. ZABLOCKI VAMC	Drawing Number: MD101	VA Project Number: 695-15-118
	Date: 09/30/2015 · Checked By: Michael Jushka · Drawn By: MJJ		VA U.S. Department of Veterans Affairs



BUILDING 43 – PARTIAL A–WING SOUTH BASEMENT HVAC PLAN

2 MH101 3/16"=1'–0"

NORTH



BUILDING 43 – A–WING NORTH FIRST FLOOR HVAC PLAN

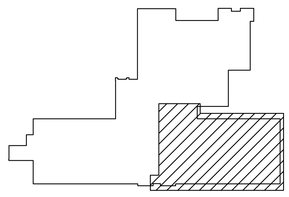
1 MH101 3/16"=1'–0"

NORTH

KEYED NOTES -

[NOTES APPLY TO DRAWINGS MH101 AND MH102]

1. NEW SPACE TEMPERATURE SENSOR FOR CONTROL OF FULL EXPOSURE THIS WING OF FINNED TUBE RADIATION.
2. UPGRADE EXISTING FINNED TUBE RADIATION (FTR) WITH NEW DDC CONTROL VALVES CONTROLLED BY TEMPERATURE SENSOR ON SAME EXPOSURE. CONTROL WIRING TO FTR SHALL BE ROUTED IN EXISTING WALL. PROVIDE NEW BALL VALVES IN BRANCH PIPING SERVING FTR.
3. PROVIDE NEW WALL-TO-WALL CONTINUOUS CABINET COVER OVER EXISTING FINNED TUBE RADIATION ELEMENTS. TRIM OFF FINS AT NEW WALL LOCATIONS AND PACK VOID WITH BATT INSULATION.
4. ROOM COOLING UNIT RCU-A156A ABOVE CEILING DUCTED TO ROOM A156A AND ASSOCIATED OUTDOOR CONDENSING UNIT ACCU-A156A ON GRADE. INTER-CONNECTIONG REFRIGERANT PIPING AND CONTROL WIRING ROUTED THRU CRAWLSPACE BELOW.
5. EXHAUST FAN EF-A156A FOR BACKUP ROOM VENTILATION UPON FAILURE OF RCU-A156A/ACCU-A156A.
6. ROOM COOLING UNIT RCU-A192A HUNG HIGH ON WALL ABOVE DOOR AND ASSOCIATED OUTDOOR CONDENSING UNIT ACCU-A192A ON GRADE. ASSOCIATED REFRIGERANT PIPING AND CONTROL WIRING ROUTED THRU CRAWLSPACE BELOW.
7. EXHAUST FAN EF-A192A FOR BACKUP ROOM VENTILATION UPON FAILURE OF RCU-A192A/ACCU-A192A.
8. DRYER VENT EXHAUST FAN EF-177A SERVING RESIDENTIAL CLOTHES DRYER. SEE DETAIL 5/MM500
9. DRYER VENT FILTER BOX SERVING RESIDENTIAL CLOTHES DRYER.
10. HOT WATER RADIANT CEILING PANEL.



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VA U.S. Department of Veterans Affairs

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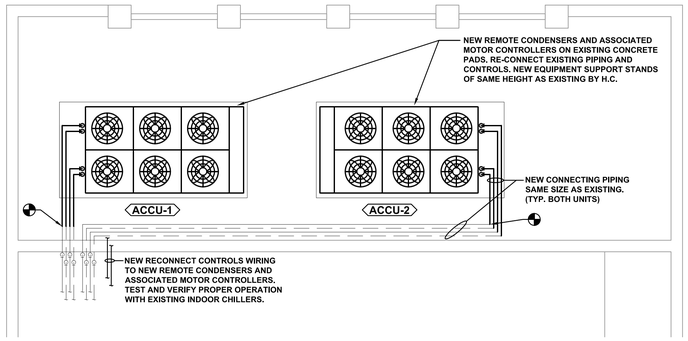
BID SET

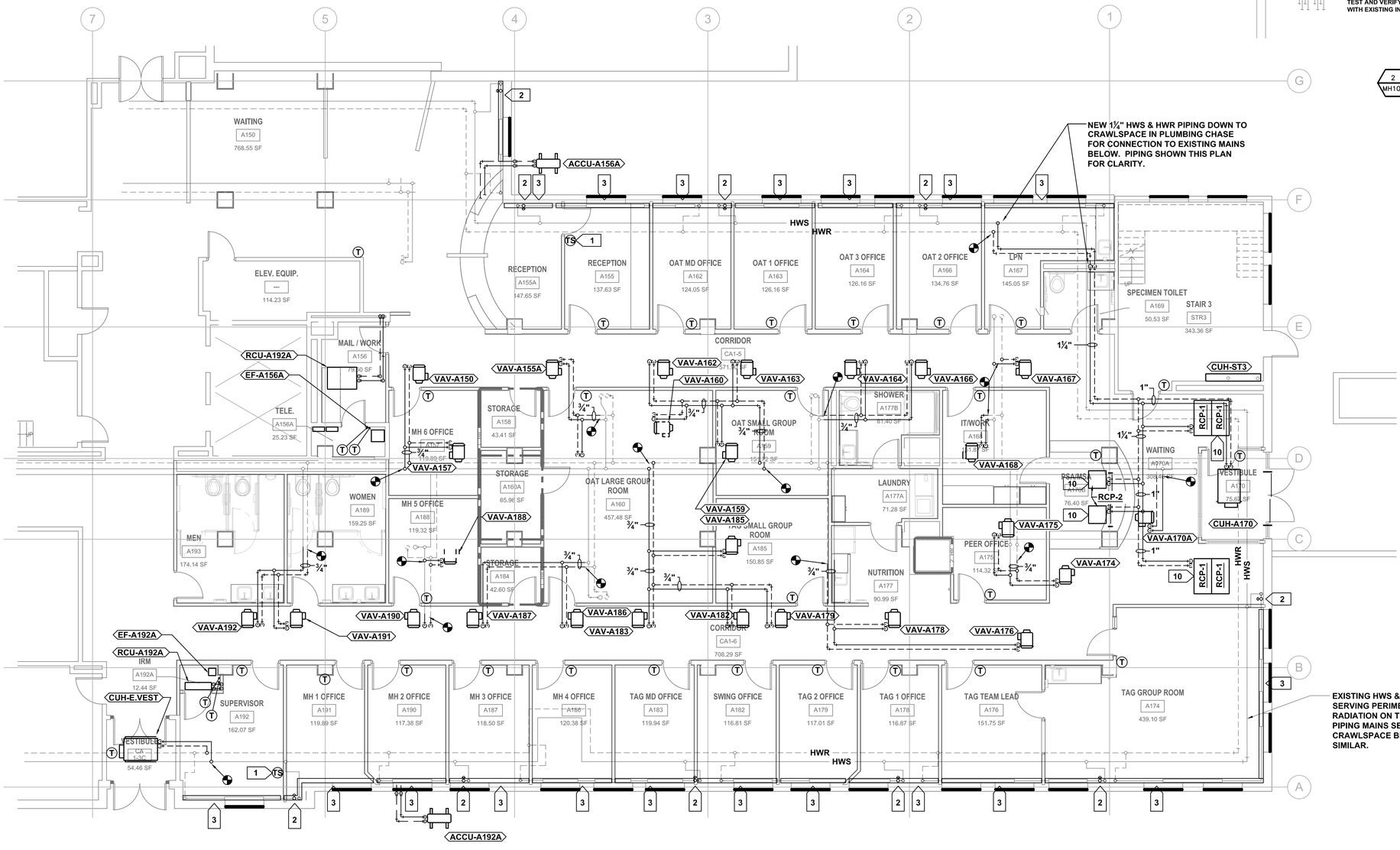
Drawing Title	Project Title	Project Number	OFFICE OF FACILITIES MANAGEMENT
First Floor A-Wing HVAC Ductwork Construction Plan	BUILDING 43 RENOVATE FOR SUBSTANCE ABUSE AND PSYCHOLOGY	14.1020.03	
		Building Number #43	
Approved for Design Concept: JAMES BEIER	Location CLEMENT J. ZABLOCKI VAMC	Drawing Number MH101	VA Project Number 695-15-118
	Date 09/30/2015 · Checked By: Michael Jushka · Drawn By: MJJ		VA U.S. Department of Veterans Affairs



BUILDING 43 – PARTIAL A–WING SOUTH BASEMENT HVAC PLAN

2 / MH101 — 3/16"=1'-0"

NORTH



BUILDING 43 – A–WING NORTH FIRST FLOOR HVAC PLAN

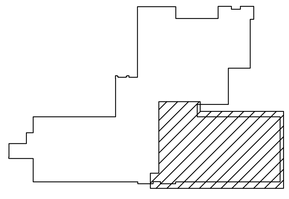
1 / MH101 — 3/16"=1'-0"

NORTH

KEYED NOTES -

[NOTES APPLY TO DRAWINGS MH101 AND MH102]

1. NEW SPACE TEMPERATURE SENSOR FOR CONTROL OF FULL EXPOSURE THIS WING OF FINNED TUBE RADIATION.
2. UPGRADE EXISTING FINNED TUBE RADIATION (FTR) WITH NEW DDC CONTROL VALVES CONTROLLED BY TEMPERATURE SENSOR ON SAME EXPOSURE. CONTROL WIRING TO FTR SHALL BE ROUTED IN EXISTING WALL. PROVIDE NEW BALL VALVES IN BRANCH PIPING SERVING FTR.
3. PROVIDE NEW WALL-TO-WALL CONTINUOUS CABINET COVER OVER EXISTING FINNED TUBE RADIATION ELEMENTS. TRIM OFF FINS AT NEW WALL LOCATIONS AND PACK VOID WITH BATT INSULATION.
4. ROOM COOLING UNIT RCU-A156A ABOVE CEILING DUCTED TO ROOM A156A AND ASSOCIATED OUTDOOR CONDENSING UNIT ACCU-A156A ON GRADE. INTER-CONNECTIONG REFRIGERANT PIPING AND CONTROL WIRING ROUTED THRU CRAWLSPACE BELOW.
5. EXHAUST FAN EF-A156A FOR BACKUP ROOM VENTILATION UPON FAILURE OF RCU-A156A/ACCU-A156A.
6. ROOM COOLING UNIT RCU-A192A HUNG HIGH ON WALL ABOVE DOOR AND ASSOCIATED OUTDOOR CONDENSING UNIT ACCU-A192A ON GRADE. ASSOCIATED REFRIGERANT PIPING AND CONTROL WIRING ROUTED THRU CRAWLSPACE BELOW.
7. EXHAUST FAN EF-A192A FOR BACKUP ROOM VENTILATION UPON FAILURE OF RCU-A192A/ACCU-A192A.
8. DRYER VENT EXHAUST FAN EF-177A SERVING RESIDENTIAL CLOTHES DRYER. SEE DETAIL 5/MM500
9. DRYER VENT FILTER BOX SERVING RESIDENTIAL CLOTHES DRYER.
10. HOT WATER RADIANT CEILING PANEL.



KEY PLAN
NOT TO SCALE

Revisions:	Date

VA — U.S. Department of Veterans Affairs

CLEMENT J. ZABLOCKI VA MEDICAL CENTER
MILWAUKEE, WISCONSIN

WISCONSIN MICHAEL J. JUSHKA E-35472 MILWAUKEE, WI PROFESSIONAL ENGINEER HVAC 9.30.15

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BID SET

Drawing Title: First Floor A-Wing HVAC Piping Construction Plan	Project Title: BUILDING 43 RENOVATE FOR SUBSTANCE ABUSE AND PSYCHOLOGY	Project Number: 14.1020.03	OFFICE OF FACILITIES MANAGEMENT
		Building Number: #43	
Approved for Design Concept: JAMES BEIER	Location: CLEMENT J. ZABLOCKI VAMC	Drawing Number: MH102	VA Project Number: 695-15-118
	Date: 09/30/2015 — Checked By: Michael Jushka — Drawn By: MJJ		VA U.S. Department of Veterans Affairs