



# Department of Veterans Affairs

## JESSE BROWN VETERANS AFFAIRS MEDICAL CENTER CHICAGO, ILLINOIS 60612

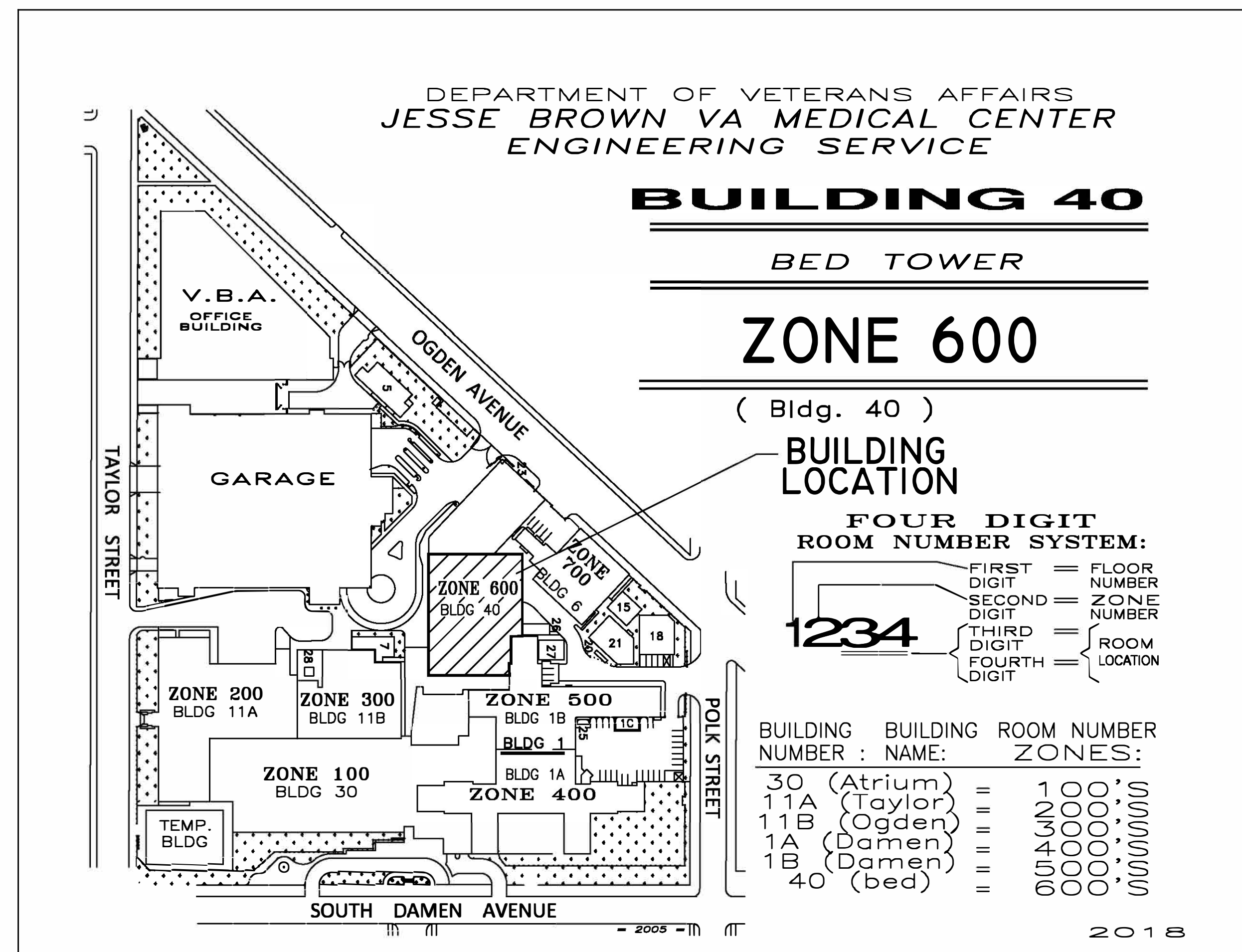
### UPGRADE TO SANITARY DRAIN PIPING 3RD FLOOR MECHANICAL ROOM BED TOWER, BLDG. 40

#### INDEX OF DRAWINGS:

40-G1	TITLE SHEET AND LOCATION PLAN
40-P1	SANITARY DRAIN PIPING LAYOUT
40-P2	ILLUSTRATIONS ON PROPOSED ROUTING FOR DRAIN PIPING

#### GENERAL NOTES & CONDITIONS

- CONTRACTORS TO PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, AND SERVICES NECESSARY TO COMPLETE THE WORK INDICATED IN THE STATEMENT OF WORK (SOW). WORKMANSHIP SHALL BE COMPLETE IN EVERY ASPECT, TESTED, APPROVED AND SATISFACTORY TO JESSE BROWN VA MEDICAL CENTER (JB VAMC), THE COR, AND IN ACCORDANCE WITH VA REQUIREMENTS.
- THE DRAWINGS INDICATE DIAGRAMMATICALLY THE EXTENT AND LOCATION OF THE WORK INCLUDED. WORK INDICATED, BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED, SHALL BE PROVIDED, INCLUDING THESE DETAILS, WITHOUT EXTRA COST.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS AND PERMITS REQUIRED FROM VA JESSE BROWN BEFORE STARTING ANY WORK.
- THE WORK ON THESE DRAWINGS IS GENERALLY DIAGRAMMATIC AND IS INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE THE GENERAL ARRANGEMENT OF EQUIPMENT AND FINAL LAYOUT.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATION OF NEW CONSTRUCTION WITH EXISTING WALLS, FLOORS, CEILINGS, COLUMNS, MECHANICAL AND ELECTRICAL EQUIPMENT, AND EXISTING CONDITIONS.
- CONTRACTORS ARE RESPONSIBLE FOR CHECKING FIELD CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK. CONTRACTORS SHALL REPORT ANY PROBLEMS/CONFLICTS TO THE COR WITHIN TWO (2) DAYS OF DISCOVERY. ANY CHANGES RESULTING FROM CONDITIONS ARISING IN THE FIELD WHICH ARE NOT BROUGHT TO THE ATTENTION OF THE COR ARE TO BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO JESSE BROWN VA MEDICAL CENTER.
- FINAL LOCATION OF HVAC COMPONENTS AND EQUIPMENT SHALL BE APPROVED BY THE COR.
- CONTRACTORS SHALL WARRANT ALL WORK TO BE PERFORMED AND ALL MATERIALS TO BE FURNISHED UNDER THIS CONTRACT AGAINST DEFECTS IN WORKMANSHIP IN ACCORDANCE WITH VA'S STANDARD DOCUMENTS FOR CONSTRUCTION.
- IN ACCORDANCE WITH GENERAL CONSTRUCTION PRACTICES, CONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR WORKING CONDITIONS AT THE JOB SITE.
- CONTRACTORS SHALL ARRANGE FOR THE PREMISES TO BE MAINTAINED IN A CLEAN AND ORDERLY MANNER THROUGHOUT THE COURSE OF THE CONSTRUCTION. DO NOT BLOCK ENTRANCES, EXITS, LOBBIES, ETC. LEAVE AREAS CLEAN AND FREE OF DEBRIS AT THE END OF EACH DAY.
- CONTRACTORS SHALL BE RESPONSIBLE FOR REMOVING ALL LEFT-OVER MATERIALS, DEBRIS, AND EQUIPMENT INVOLVED IN HIS OPERATIONS AT THE CONCLUSION OF THE PROJECT. ALL PROJECT AREAS AND SURROUNDING AREAS AFFECTED BY THE CONSTRUCTION SHALL BE LEFT CLEAN AND IN GOOD CONDITION.
- CONTRACTORS SHALL TAKE PRECAUTIONARY MEASURES TO ENSURE THAT ALL PROPERTIES, EQUIPMENT, AND DEVICES AT THE PROJECT SITE ARE PROTECTED DURING THE CONSTRUCTION PERIOD. ANY DAMAGE TO EXISTING CONSTRUCTION, EQUIPMENT AND DEVICES SHALL BE REPAIRED AND RESTORED TO A CONDITION EQUAL TO THAT EXISTING AT THE COMMENCEMENT OF WORK.
- ALL FINISHED WORK WHICH IS DAMAGED OR STAINED SHALL BE REPAIRED OR REPLACED IF NECESSARY AT NO ADDITIONAL EXPENSE TO JESSE BROWN VA MEDICAL CENTER.
- CONTRACTORS SHALL IMMEDIATELY REPORT ANY ENCOUNTERED UNKNOWN OR SUSPECTED HAZARDOUS MATERIAL TO THE COR FOR TESTING.



#### APPLICABLE CODES AND STANDARDS

ALL WORK SHALL COMPLY TO:

- ALL VA POLICIES
- VA HVAC DESIGN MANUAL, 11/01/2017
- ASHRAE 170-2017 VENTILATION OF HEALTH CARE FACILITIES
- VA CONSTRUCTION SAFETY
- VA INFECTION CONTROL POLICIES
- CODES, STANDARDS AND EXECUTIVE ORDERS FOUND AT: <http://www.cfm.va.gov/til/>
- 2018 INTERNATIONAL MECHANICAL
- 2018 INTERNATIONAL ENERGY CODE
- 2017 NFPA-70, NATIONAL ELECTRIC CODE

ARCHITECT/ENGINEERS:

JESSE BROWN VAMC  
PLANNING AND CONSTRUCTION

Drawing Title  
TITLE SHEET AND LOCATION PLAN

3rd FLOOR MECHANICAL ROOM

Project Title  
UPGRADE SANITARY DRAIN  
PIPING, 3RD FLOOR, MECH.  
ROOM, BED TOWER

Location  
JESSE BROWN VAMC

Date:  
JUNE 15, 2018

Checked:  
MS

Prepared:  
TN

Project Number  
537-19-133

Building Number  
40

Drawing Number  
40-G1

Dwg. 1 of 3

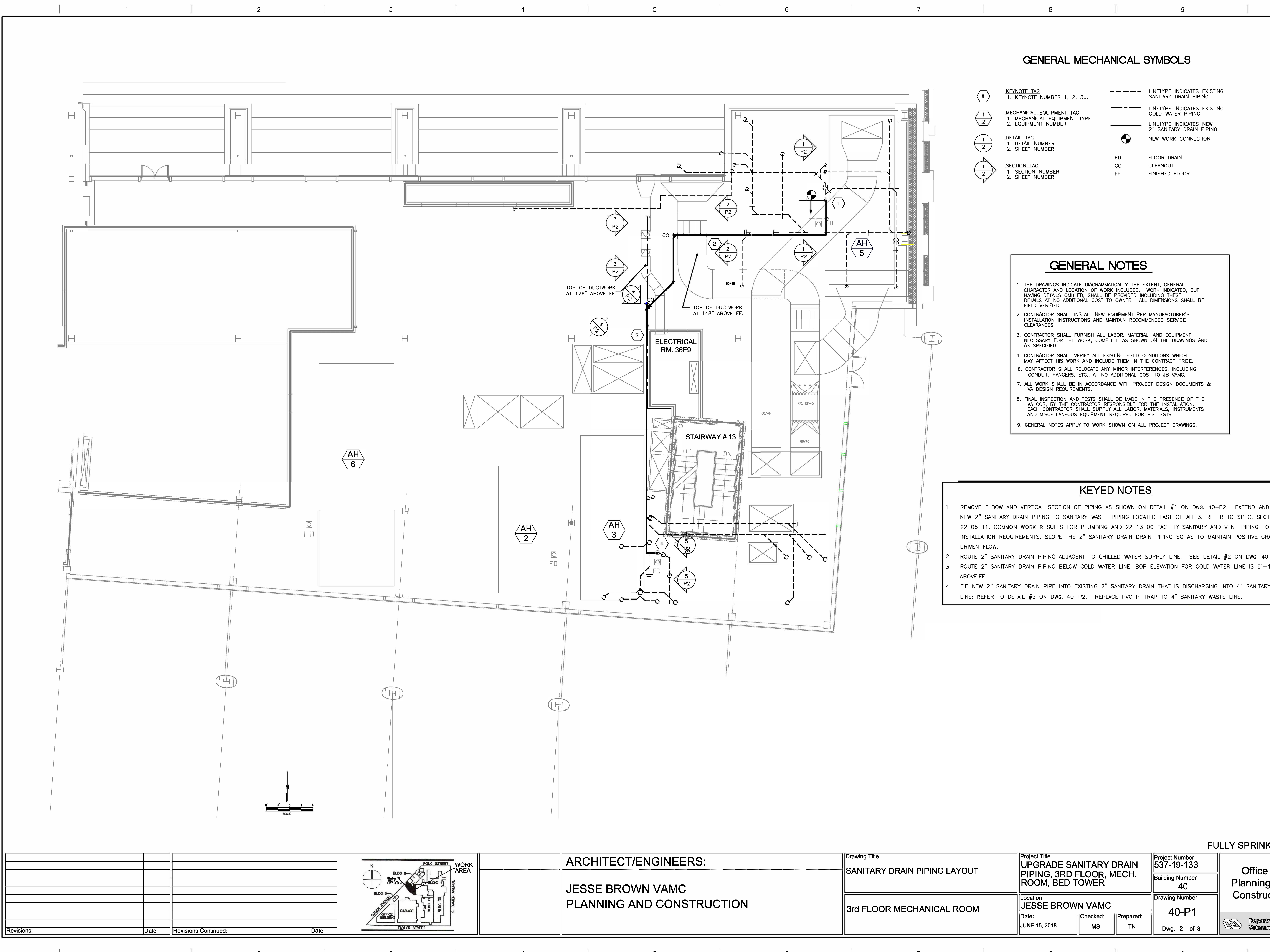
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Office of  
Planning and  
Construction

Department of  
Veterans Affairs



one eighth inch = one foot  
one quarter inch = one foot  
three eighths inch = one foot  
one half inch = one foot  
one inch = one foot  
three quarters inch = one foot  
one and one half inches = one foot  
one and one half inches = one foot  
three inches = one foot



GENERAL MECHANICAL SYMBOLS

- #

KEYNOTE TAG  
1. KEYNOTE NUMBER 1, 2, 3...
- 1  
2

MECHANICAL EQUIPMENT TAG  
1. MECHANICAL EQUIPMENT TYPE  
2. EQUIPMENT NUMBER
- 1  
2

DETAIL TAG  
1. DETAIL NUMBER  
2. SHEET NUMBER
- 1  
2

SECTION TAG  
1. SECTION NUMBER  
2. SHEET NUMBER
- LINETYPE INDICATES EXISTING  
SANITARY DRAIN PIPING
- LINETYPE INDICATES EXISTING  
COLD WATER PIPING
- LINETYPE INDICATES NEW  
2" SANITARY DRAIN PIPING
- +

NEW WORK CONNECTION
- FD

FLOOR DRAIN
- CO

CLEANOUT
- FF

FINISHED FLOOR

GENERAL NOTES

- THE DRAWINGS INDICATE DIAGRAMMATICALLY THE EXTENT, GENERAL CHARACTER AND LOCATION OF WORK INCLUDED. WORK INDICATED, BUT HAVING DETAILS OMITTED, SHALL BE PROVIDED INCLUDING THESE DETAILS AT NO ADDITIONAL COST TO OWNER. ALL DIMENSIONS SHALL BE FIELD VERIFIED.
- CONTRACTOR SHALL INSTALL NEW EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND MAINTAIN RECOMMENDED SERVICE CLEARANCES.
- CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY FOR THE WORK, COMPLETE AS SHOWN ON THE DRAWINGS AND AS SPECIFIED.
- CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS WHICH MAY AFFECT HIS WORK AND INCLUDE THEM IN THE CONTRACT PRICE.
- CONTRACTOR SHALL RELOCATE ANY MINOR INTERFERENCES, INCLUDING CONDUIT, HANGERS, ETC., AT NO ADDITIONAL COST TO JB VAMC.
- ALL WORK SHALL BE IN ACCORDANCE WITH PROJECT DESIGN DOCUMENTS & VA DESIGN REQUIREMENTS.
- FINAL INSPECTION AND TESTS SHALL BE MADE IN THE PRESENCE OF THE VA COR. BY THE CONTRACTOR RESPONSIBLE FOR THE INSTALLATION. EACH CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, INSTRUMENTS AND MISCELLANEOUS EQUIPMENT REQUIRED FOR HIS TESTS.
- GENERAL NOTES APPLY TO WORK SHOWN ON ALL PROJECT DRAWINGS.

KEYED NOTES

- REMOVE ELBOW AND VERTICAL SECTION OF PIPING AS SHOWN ON DETAIL #1 ON DWG. 40-P2. EXTEND AND ROUTE NEW 2" SANITARY DRAIN PIPING TO SANITARY WASTE PIPING LOCATED EAST OF AH-3. REFER TO SPEC. SECTION 22 05 11, COMMON WORK RESULTS FOR PLUMBING AND 22 13 00 FACILITY SANITARY AND VENT PIPING FOR INSTALLATION REQUIREMENTS. SLOPE THE 2" SANITARY DRAIN PIPING SO AS TO MAINTAIN POSITIVE GRAVITY DRIVEN FLOW.
- ROUTE 2" SANITARY DRAIN PIPING ADJACENT TO CHILLED WATER SUPPLY LINE. SEE DETAIL #2 ON DWG. 40-P2
- ROUTE 2" SANITARY DRAIN PIPING BELOW COLD WATER LINE. BOP ELEVATION FOR COLD WATER LINE IS 9'-4" ABOVE FF.
- TIE NEW 2" SANITARY DRAIN PIPE INTO EXISTING 2" SANITARY DRAIN THAT IS DISCHARGING INTO 4" SANITARY WASTE LINE; REFER TO DETAIL #5 ON DWG. 40-P2. REPLACE PVC P-TRAP TO 4" SANITARY WASTE LINE.

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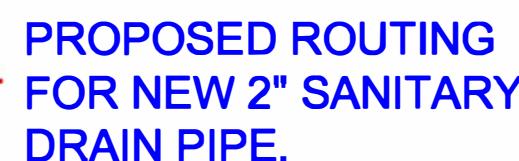
Revisions:		Date	Revisions Continued:	Date		ARCHITECT/ENGINEERS:		Drawing Title		Project Title		Project Number		Office of Planning and Construction 	
		Date	Revisions Continued:	Date		JESSE BROWN VAMC PLANNING AND CONSTRUCTION		SANITARY DRAIN PIPING LAYOUT		537-19-133					
		Date	Revisions Continued:	Date			3rd FLOOR MECHANICAL ROOM		Building Number		Drawing Number				
		Date	Revisions Continued:	Date					40						
		Date	Revisions Continued:	Date					Location		Dwg. 2 of 3				
		Date	Revisions Continued:	Date					JESSE BROWN VAMC						
		Date	Revisions Continued:	Date					Date:		Checked: MS Prepared: TN				
		Date	Revisions Continued:	Date					JUNE 15, 2018						





REMOVE VERTICAL  
SECTION OF 2"  
SANITARY DRAIN PIPE,  
INCLUDING TRAP. CUT  
AND CAP SANITARY  
WASTE LINE 3" ABOVE  
FF

## #1 REMOVAL OF VERTICAL SECTION OF SANITARY DRAIN PIPING



#2 SUGGESTED ROUTING FOR NEW 2" SANITARY DRAIN PIPING



#3 ROUTE DUCTWORK AND BELOW COLD WTR. LINE

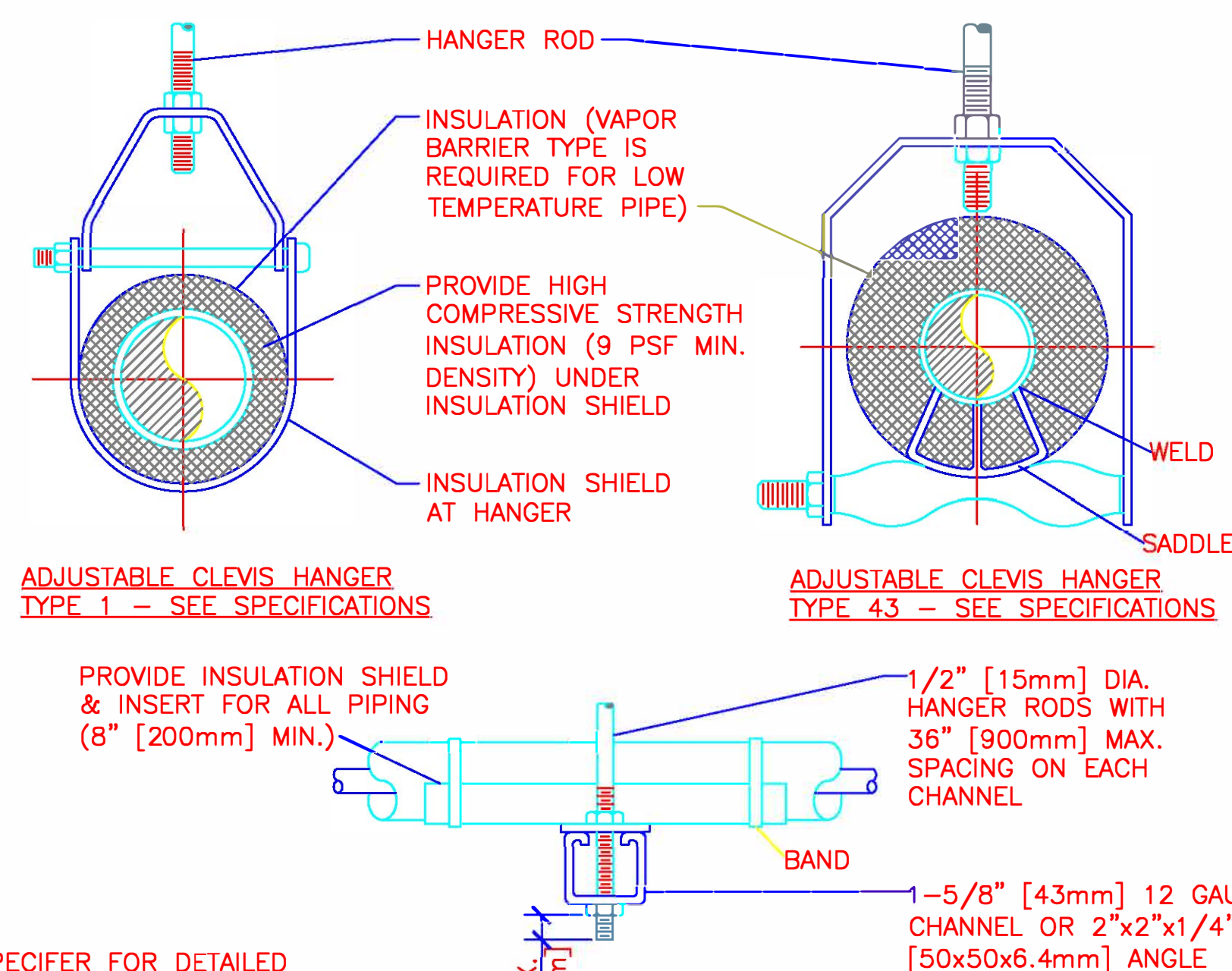


#4 ROUTE SANITARY DRAIN BELOW COLD WTR. LINE

NEW FRPP  
TRAP 7

EXISTING  
DRAIN  
PIPING

EXISTING  
SANITARY  
WASTE  
LINE



NOTES:  
SEE SPECIFER FOR DETAILED  
HANGER REQUIREMENTS

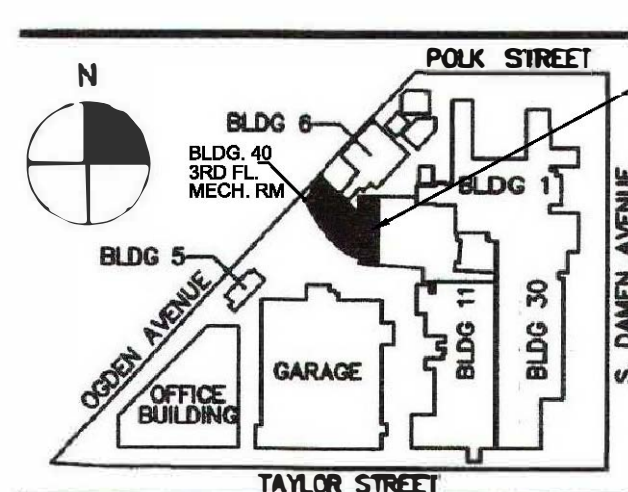
**SIDE VIEW TRAPEZE HANGER FOR UP TO  
1000 LB. [453KG] UNIFORM LOAD**

		MAXIMUM PIPE/TUBING SUPPORT SPACING																	
NOM. SIZE	IN. [mm]	THRU 3/4 [20]	1 [25]	1 1/4 [32]	1 1/2 [40]	2 [51]	2 1/2 [63]	3 [76]	4 [101]	5 [127]	6 [152]	8 [203]	10 [254]	12 [305]	14 [356]	16 [406]	18 [457]	20 [508]	24 [609]
PIPE	FT. [mm]	[210]	[210]	[210]	[270]	[300]	[340]	[370]	[410]	[490]	[520]	[580]	[670]	[700]	[760]	[820]	[850]	[910]	[960]
TUBING	FT. [mm]	5 FT. [1500]	6 [1800]	7 [2100]	8 [2400]	7 [2100]	8 [2400]	9 [2700]	10 [3000]	12 [3700]	14 [4000]	16 [4100]	18 [4900]	-	-	-	-	-	-

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

## #6 PIPE HANGERS

[illegible]

ARCHITECT/ENGINEERS:

JESSE BROWN VAMC  
PLANNING AND CONSTRUCTION

Drawing Title
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### ILLUSTRATIONS ON PROPOSED ROUTING FOR SANITARY DRAIN PIPING

3rd FLOOR MECHANICAL ROOM

Project Title
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UPGRADE SANITARY DRAIN  
PIPING, 3RD FLOOR, MECH.  
ROOM, BED TOWER

	Location
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**JESSE B**

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## VN VAM

	Project Number
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537-19-133

Building Number  
40

Drawing Number

40-P2

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Office of  
Planning and  
Construction

