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		Drawing Title MECHANICAL PIPINO	S AND	Project Title	CARE SYS	STEM	Project Num 438-16-104
	THE ARCHITECT EXPRESSLY RESERVES HIS COMMON LAW AND STATUTORY LAW COPYRIGHTS AND OTHER PROPERTY RIGHTS FOR THESE "ARCHITECTURAL WORKS" AND "TECHNICAL DOCUMENTS"	CONTROL DIAGRA		Building Nur 5			
	AND ANY DERIVITIVES THEREOF. THESE DRAWINGS AND DOCUMENTS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY MANNER WHATSOEVER FOR ANY USE WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF LOUIS G. CHIODINI, CHIODINI ASSOCIATES.	Approved: Project Director Approver		Location VAS 438-16-104 BLDG. 5 CHAPEL SIOUX FALLS, SD 57105			
	NOR ARE THEY TO BE ASSIGNED TO ANY PARTY WITHOUT FIRST OBTAINING SAID WRITTEN PERMISSION AND CONSENT. C COPYRIGHT PENDING			Date 2017.03.13	Checked Aws	Drawn MCB	
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	PROJECT PLUMBING NOTES
<u>GE</u> 1.	<u>NERAL PLUMBING NOTES:</u> PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL FEES AND PERMITS ASSOCI
2	PORTION OF THE WORK.
2.	SUBSTANTIAL COMPLETION EXCEPT WHERE NOTED AS MORE STRINGENT IN PROJECT I
3.	AND DURING CONSTRUCTION/INSTALLATION.
4.	WORK PLANS TO BE CONSIDERED AS DIAGRAMMATIC AND ALONG WITH THE SPECIFICA MINIMUM ACCEPTABLE STANDARD. ALL WORK SHALL CONFORM TO THE INTERNATIONA THE VETERANS AFFAIRS PLUMBING DESIGN MANUAL AND THE AMERICANS WITH DISABI
5.	GUIDELINES. PLUMBING CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZES OF EXISTING AND N
6	DWV LINES AND FIELD CONDITIONS, PRIOR TO STARTING WORK.
0.	CONTRACTOR SHALL ELECTRONICALLY SCAN FLOOR FOR POSSIBLE CONDUIT, PIPING C
	THE ENGINEER WHERE IN CONFLICT WITH PLUMBING INSTALLATION.
7.	WHEN A CONFLICT BETWEEN PLANS AND SPECIFICATIONS OR NOTES OCCURS, THE END
	PROVISION SHALL GOVERN. IF ANY DISCREPANCIES ARE DISCOVERED ON THE PLANS C
	PLANS AND THE SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND CLARIFICATION OF THE INTENT FROM THE ENGINEER PRIOR TO CONSTRUCTION OR INS
0	PROPOSED IMPROVEMENTS.
o. 9.	SEE ARCHITECTURAL DRAWINGS FOR FIXTURE HEIGHTS AND ACCESSIBILITY REQUIREM
10.	NOT ALL HANGER TYPES, LABEL DESIGNATIONS, OR LEGEND REFERENCES WILL NECES FOR THIS PROJECT. STANDARD INDUSTRY PRACTICE. SPECIFICATIONS, AND PLANS IND
	MAGNITUDE OF APPLICATION.
<u>PIP</u>	ING NOTES:
1.	WHERE EXISTING PLUMBING SYSTEMS ARE MODIFIED OR WHERE NEW PLUMBING SYSTEMS THE PLUMBING CONTRACTOR SHALL CLEAN AND FLUSH THE EXIST
	CONTRACTOR SHALL ENSURE THAT DRAINAGE LINES ALLOW PROPER FLOWS AND LINE
2.	FIXTURES AND ROUGHED IN FIXTURES SHALL BE COMPLETE WITH SUPPLY PIPES WITH
	STOPS TO BE CHROME PLATE ESCUTCHEONS. WHERE EXPOSED TO VIEW ESCUTCHEON
3.	ACCESSIBLE SHUTOFF VALVES TO BE PROVIDED FOR EACH TOILET ROOM. PLUMBING C
	PROVIDE 8"x8" (MIN.) ACCESS PANELS FOR SHUTOFF VALVES WHERE REQUIRED, COOR FINISH WITH ARCHITECTURAL REQUIREMENTS.
4.	ALL ABOVE CEILING ISOLATION/SHUT-OFF VALVES SHALL BE INSTALLED SUCH THAT THE
5.	PROVIDE SHOCK ARRESTORS PER FIXTURE GROUP AS RECOMMENDED BY PDI INSTITU
6.	MANUFACTURER. INTERIOR WATER SUPPLY PIPING TO BE TYPE "L" COPPER WITH LEAD-FREE SOLDER JO
7	FOR ADDITIONAL INFORMATION.
7.	ADDITIONAL INFORMATION.
8.	PROVIDE CLEANOUTS AT BASE OF ALL DWV RISERS AND AS REQUIRED BY CODE, WHET DIRECTLY (AS DWGS. CLARITY ALLOWS) INDICATED ON PLUMBING PLAN.
9.	DRAINAGE (SANITARY) PIPE SHALL BE STANDARD, CODE APPROVED, DWV PATTERN FIT
10.	HUBLESS CAST IRON MUST BE SUPPORTED WITHIN 18" OF HUB COUPLING. ALL OTHER F
	SUPPORTED AS NOTED IN SPECIFICATIONS UNLESS MORE STRINGENT SUPPORT IS REC SUPPORT ALL PLUMBING PIPING FROM ROOF/FLOOR STRUCTURAL MEMBERS OR STRUC
	NOT CEILING. WHERE STRUCTURE SUPPORT FOR LONG VERTICAL RUNS IS NOT POSSIE
	SECURED TOGETHER AT INTERMEDIATE POINTS USING STRUT SUPPORT CHANNEL AND
11.	ROUTE WATER PIPING AS HIGH AS POSSIBLE, COORDINATE WITH OTHER TRADES AND C CONFLICT WITH HVAC AND ELECTRICAL TRADES.
12.	DWV AND SUPPLY PIPING ROUTED THROUGH FINISHED AREAS SHALL BE CONCEALED A
13.	PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY PIP
14.	GENERAL CONTRACTOR & COORDINATING ALL PIPE SLEEVE LOCATIONS (ABOVE AND BI CONTRACTOR SHALL PROVIDE ALL DRAINAGE LINES FROM EQUIPMENT TO FLOOR DRAI
	AND/OR HUB DRAINS. INSTALL DRAINAGE LINES WITH AN AIR GAP, A MINIMUM OF 2 TIME
15.	WHERE NEW PLUMBING VENTS THRU ROOF ARE PROVIDED, VENT TERMINALS SHALL BE
	FROM ANY HVAC OUTDOOR AIR OPENINGS OR WINDOWS. VENT THRU ROOF SHALL BE F OF WATER BASED LATEX EXTERIOR PAINT, AND SHALL MATCH ROOF COLOR.
16.	PIPE PENETRATIONS THRU ROOF SHALL MEET THE REQUIREMENTS OF THE ROOFING M
17.	MEDICAL AIR AND OXYGEN PIPING NEEDS TO BE THOROUGHLY CLEANED AND FLUSHED
18.	PROVIDE EXTENSIONS ON VALVES TO EXTEND VALVES HANDLES PAST THE INSULATION
	OPERATION WITHOUT DAMAGING THE INSULATION.
FIN	IISH NOTES:
1.	WHERE EXISTING PIPE INSULATION HAS BEEN REMOVED OR DAMAGED IN THE COURSE
	APPURTENANCES.
2.	PAINT ALL UNPAINTED/FERROUS FLOOR MOUNTED PLUMBING SUPPORTS, WITH A RUST TWO COATS OF GRAY/BLACK ENAMEL OR ACRYLIC PAINT
3.	CONTRACTOR SHALL PROVIDE ALL FIRESTOPPING AND/OR ACOUSTICAL SEALANTS FOR
	ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL RATED ASSEMBLIES. ALL RATED F
	ACOUSTICALLY SEALED AND /OR FIRESTOPPED TO ORIGINAL ASSEMBLY RATING. ALL NO PENETRATIONS SHALL BE SEALED WATER TIGHT WITH A FLEXIBLE SEALANT
4.	PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING AN
	PENETRATED OR DAMAGED. FINAL FINISHES SHALL BE THE RESPONSIBILITY OF GENER.
5.	THE PLUMBING CONTRACTOR SHALL PROVIDE ROOF PATCHING FOR ANY PLUMBING RC
~	MANNER CONSISTENT WITH THE ROOF SYSTEM WARRANTY REQUIREMENTS.
6.	SHALL MATCH ROOF COLOR. EXCEPTION: WHERE ROOF IS BLACK IN COLOR, VENT PIPIN
7	GREY. PROVIDE CEILING THE MARKERS INDICATING THE LOCATION OF ABOVE CEILING PLUMB
	GENERAL NOTES: (DWG P001 - P901)
1.	NOT ALL HANGER TYPES, LABEL DESIGNATIONS, OR LEGEND REFERENCES WILL NECES THIS PROJECT. STANDARD INDUSTRY PRACTICE, SPECIFICATIONS, AND PLANS INDICAT
2	APPLICATION. PLUMBING PIPE, FITTINGS, VALVES, TRIM AND FTC. IN CONTACT WITH POTABLE WATER
۲.	LEAD FREE MATERIALS IN COMPLIANCE WITH NSF/ANSI 61,SECTION 8 AND NSF/ANSI 372
	EFFECTIVE JANUARY 4, 2014.



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M DATE OF NUAL. ES PRIOR TO
ONS, REFLECT A

NAL PLUMBING CODE, BILITIES ACT

NEW SUPPLY AND S, PLUMBING GOR ANCILLARY **ATTENTION OF**

NGINEER SHALL STRICTER OR BETWEEN THE ND OBTAIN ISTALLATION OF

EMENTS. ESSARILY BE USED NDICATE THE

STEMS INTERFACE WITH ISTING PIPING SYSTEM. INE CARRY. BRING ANY ITIVE.

ONS SHALL BE SET CONTRACTOR TO

HEY MAY BE EASILY UTE AND

OINTS. SEE SCHEDULE SPECIFICATIONS FOR THER OR NOT

FITTINGS WITH THE ID SCHEMATICS. IR PIPING SHALL BE REQUIRED BY MFR. RUCTURAL WALLS ONLY,

SIBLE, PIPING SHALL BE ID CLAMPS. OFFSET WHERE IN

ABOVE CEILING OR IN EAS. IPE SLEEVES TO THE D BELOW GRADE). RAINS, FLOOR SINKS IMES THE DRAINAGE PIPE

BE A MINIMUM OF 12'-0" PAINTED WITH 1 COAT MANUFACTURER'S

D PRIOR TO RETURNING ON AND ALLOW PROPER

E OF THIS PROJECT, THE S, BANDS AND

T INHIBITIVE PRIMER AND OR PLUMBING PIPE ASSEMBLIES. SEE

D PENETRATIONS SHALL BE NON-RATED FLOOR AND SLEEVES REQUIRED CONDITION WHERE

RAL CONTRACTOR. ROOF PENETRATIONS NOT BE PERFORMED IN A X EXTERIOR PAINT, AND

PING SHALL BE PAINTED

IBING VALVES.

ESSARILY BE USED FOR TE THE MAGNITUDE OF ER, SHALL BE MADE OF 372, IN CONFORMANCE IKING WATER ACT"

			PIF	PE SYMB	OL LI	EGEND
~			~	DOMESTIC COLD V	ATER (CV	V) PIPING
<u> </u>	CW		~	DOMESTIC COLD W	ATER (CV	V) PIPING BELOW FLOOR
~			~	DOMESTIC HOT WA	ATER (HW)) PIPING
~	—HW		~	DOMESTIC HOT WA	ATER (HW)) PIPING BELOW FLOOR
<u> </u>	НТ		~	HEAT TRACED, DO	MESTIC H	OT WATER (HT) PIPING
~			,	UNDERGROUND W	ATER SEF	RVICE
~	—т —		~	DOMESTIC TEMPER	RED WATE	ER (T) PIPING
			ر	DOMESTIC CIRULA	TED HOT	WATER (HWC) PIPING
~	SAN		-7	SANITARY WASTE/	SEWER (S	AN) PIPING
~	——SAN —		÷	SANITARY WASTE/	SEWER (S	AN) PIPING BELOW FLOOR
~			~	STORM SEWER (SS	6) PIPING	
	SS		~	STORM SEWER (SS	6) PIPING E	BELOW FLOOR
<u> </u>	V		~	VENT (V) PIPING		
~	V		ł	VENT (V) PIPING BE	LOW FLO	OR
~	— AW-1-		~	ACID WASTE (AW)	PIPING BE	LOW FLOOR - POLYPROPYLENE
~	AW-2		~	ACID WASTE (AW)	PIPING BE	LOW FLOOR - CPVC (PLENUM R
~	— AWV –		~	ACID WASTE VENT	(AWV) PIF	PING - CPVC (PLENUM RATED)
~	GT		~	SANITARY SEWER	(GT) PIPIN	IG TO GREASE TRAP
<u> </u>	G		~	NATURAL GAS (G)	PIPING	
<u> </u>	C/A		~	COMPRESSED AIR	(C/A) PIPII	NG
	,C	~		PIPE DOWN		
	~			PIPE UP		
	ب ع	_		TEE DOWN		
				TEE UP		
	~	_		PIPE BREAK (FOR (CLARITY)	
	C			CAPPED PIPE		
				GAS SHUT-OFF VA	LVE	
	<u> </u>			BALL VALVE		
				BUTTERFLY VALVE		
	<u>→</u>	~		UNION		
				PRESSURE REGUL	ATING VA	LVE
		-~		GLOBE VALVE		
				GATE VALVE		
		-7		STRAINER WITH BL	OW DOW	N VALVE
ć		~		STRAINER		
	<u>о</u>			WALL CLEANOUT		
	<u> </u>			TEMPERATURE AN	D PRESSI	JRE RELIEF VALVE
	~~~ N			CHECK VALVE		
	0			SHOCK ARRESTER		
	 ب_الــــــ			CALIBRATED BALA	NCE VALV	Έ
Ş P ≹	RESSURE	GAGE	•••••••	THERMOMETER		NEW TO EXISTING INTERFACE
		PLB	G /	ABBREVI	ATIO	N LEGEND*
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AFF				UK		

PLBG ABBREVIATION LEGEND*
RICANS WITH DISABILITIES ACT GUIDELINES
VED FINISHED FLOOR
OW FINISHED FLOOR

BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
СВ	CATCH BASIN
CF	CUBIC FEET
CI	CAST IRON
CO	CLEANOUT
DBL-CHK	DOUBLE CHECK (BACKFLOW PREVENTER)
DDC	DOUBLE DETECTOR CHECK (BACKELOW PREVENTER)
DS	DOWNSPOUT
DT	DII UTION TANK
DWV	DRAIN/WASTE/VENT
EWC	ELCTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FD/CO	FLOOR DRAIN W/ CLEANOUT
FD	FLOOR DRAIN
FFD	FUNNEL FLOOR DRAIN
FS	FLOOR SINK
G	NATURAL GAS
GCO	GRADE CLEANOUT
GD	GARBAGE DISPOSAL
GPM	GALLONS PER MINUTE
GT	GREASE TRAP
IPC	INTERNATIONAL PLUMBING CODE
LAV	LAVATORY
MBH	1,000 BTUH
MS	MOP SINK
NT	NEUTRALIZATION TANK
OS	OIL SEPARATOR
PRV	PRESSURE REGULATING VALVE
PT	PLASTER TRAP
RD	ROOF DRAIN
RDO	ROOF DRAIN OVERFLOW
RI	ROUGH-IN
RPZ	REDUCED PRESSURE ZONE (BACKFLOW PREVENTER)
SK	SINK
T/P	TEMPERATURE AND PRESSURE
TD	TRENCH DRAIN
TMV	THERMOSTATIC MIXING VALVE
TOJ	TOP OF JOIST
TOS	TOP OF STEEL
UR	URINAL
USB	UTILITY SERVICE BOX
VTR	VENT THRU ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER
WHB	WALL HYDRANT HOSE BIBB
X	DESIGNATION FOR EXISTING EQUIPMENT/FIXTURE/PIPE
VCO	

YCO YARD CLEANOUT * SEE PLUMBUNG SCHEDULES FOR ADDITIONAL KEY MARK (ABBREVIATIONS) OF FIXTURE CALLOUTS

		Drawing Title <b>PI UMBING</b>	I FGENDS AN	Project Title VA HEALTH	CARE SYS	STEM	Project Nur 438-16-104
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		THE ARCHITECT EXPRESSLY RESERVES HIS COMMON LAW AND STATUTORY LAW COPYRIGHTS AND OTHER PROPERTY RIGHTS FOR THESE "ARCHITECTURAL WORKS" AND "TECHNICAL DOCUMENTS"	Drawing Title PLUMBING THIRD FLOOR DEMOLITION PLAN			Project Title VA HEALTH CARE SYSTEM			Project Nur 438-16-104 Building Nu 5
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aphics 144		NOR ARE THEY TO BE ASSIGNED TO ANY PARTY WITHOUT FIRST OBTAINING SAID WRITTEN PERMISSION AND CONSENT. C COPYRIGHT PENDING				Date 2017.03.13	Checked VAA	Drawn MFB	
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1	DEMOLISH AND LEGALLY DISPOSE OF THE EXISTING WALL HUNG WATER CLOSET, TRIM AND ASSOCIATED DWV AND SUPPLY PIPING. BELOW FLOOR SANITARY PIPING AND SUPPLY PIPING SHALL BE DEMOLISHED TO WITHIN 12" OF THE ACTIVE PIPING SYSTEM AND PREPARED FOR SUBSEQUENT CONNECTIONS. VENT PIPING SHALL BE DEMOLISHED AND ABANDONED AND CAPPED WITHIN WALL CAVITY.
2	DEMOLISH AND LEGALLY DISPOSE OF THE EXISTING WALL HUNG LAVATORY, TRIM AND ASSOCIATED DWV AND SUPPLY PIPING. BELOW FLOOR SANITARY PIPING AND SUPPLY PIPING SHALL BE DEMOLISHED TO WITHIN 12" OF THE ACTIVE PIPING SYSTEM AND PREPARED FOR SUBSEQUENT CONNECTIONS. VENT PIPING SHALL BE DEMOLISHED AND ABANDONED AND CAPPED WITHIN WALL CAVITY.
3	DEMOLISH AND LEGALLY DISPOSE OF THE EXISTING SHOWER, TRIM AND ASSOCIATED DWV AND SUPPLY PIPING. BELOW FLOOR SANITARY PIPING AND SUPPLY PIPING SHALL BE DEMOLISHED TO WITHIN 12" OF THE ACTIVE PIPING SYSTEM AND PREPARED FOR SUBSEQUENT CONNECTIONS. VENT PIPING SHALL BE DEMOLISHED AND ABANDONED AND CAPPED WITHIN WALL CAVITY.
4	DEMOLISH EXISTING COPPER SANITARY FROM EXISTING ELECTRIC WATER COOLER INTO EXISTING COPPER HUB DRAIN. PREPARE SANITARY PIPING FOR HARD CONNECTION UNDER THE MODIFICATION PORTION OF THIS PROJECT.
5	NEW ROOF TOP UNIT WILL BE INSTALLED. ANY VENT THROUGH ROOFS WILL NEED TO BE RE-LOCATED. COORDINATE WITH MECHANICAL CONTRACTOR AND ENSURE THE NEW LOCATIONS ARE GREATER THAN 12 FOOT FROM SUPPLY AIR OPENING ON THE UNIT.
6	REMOVE AND TEMPORARILY STORE EXISTING ELECTRIC WATER COOLER. DWV AND SUPPLY PIPING SHALL BE ADJUSTED AS NECESSARY TO ACCOMMODATE THE SUBSEQUENT REINSTALLATION OF ELECTRIC WATER COOLER.





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	GENERAL NOTES
1.	SEE DRAWING P001 FOR PROJECT NOTES AND SPECIFICATIONS FOR ADDITIONAL CONTRACTOR INFORMATION
2.	IN GENERAL COLD AND HOT WATER PIPING AND SANITAF PIPING ARE LOCATED ABOVE CEILING ON THE SECOND F AND IN CHASE/WALL CAVITIES. VENT PIPING IN GENERAL LOCATED ABOVE CEILING ON THE THIRD FLOOR AND IN CHASE/WALL CAVITIES. EXCEPTIONS AS NOTED IN PLANS
3.	SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND FIXTURE HEIGHT REQUIREMENTS.
4.	THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WALL/FLOOR/CEILING/ ROOF CUTTING AND PATCHING AS REQUIRED FOR THIS TRADE (PLUMBING) WORK
5.	FINAL FINISHES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
6.	WHERE EXISTING PLUMBING SYSTEMS ARE MODIFIED OF WHERE NEW PLUMBING SYSTEMS INTERFACE WITH EXIS SYSTEMS, THE PLUMBING CONTRACTOR SHALL CLEAN A FLUSH THE EXISTING PLUMBING LINES AS REQUIRED TO ENSURE PROPER FLOWS AND/OR LINE CARRY
7.	DURING THE COURSE OF DEMOLITION WORK, THE CONTRACTOR SHALL KEEP IN MIND THE POSSIBLITY OF FUTURE RECONNECTION OR EXTENSION OF THE EXISTIN PLUMBING SYSTEMS AND ITS COMPONENTS
8.	COORDINATE WITH THE MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR AND SPRINKLER CONTRACTOR PRIOR TO AND DURING THE DEMOLITION OF PLUMBING SYSTEMS AND COMPONENTS THAT MAY HAVE APPLICAT

1	EXISTING 1" HOT WATER PIPING AND EXISTING 2" COL PIPING IN SECOND FLOOR CEILING.
2	1/2" HOT AND COLD WATER PIPING UP TO NEW LAVAT THIRD FLOOR. 2" SANITARY PIPING DOWN FROM NEW ON THIRD FLOOR.
3	3" SANITARY PIPING DOWN FROM NEW FLOOR DRAIN FLOOR.
4	1-1/4" COLD WATER PIPING UP TO NEW WATER CLOSE FLOOR. 4" SANITARY DOWN FROM NEW WATER CLOS THIRD FLOOR.
5	1/2" HOT AND COLD WATER PIPING UP TO NEW SINK ( FLOOR. 2" SANITARY PIPING DOWN FROM NEW SINK ( FLOOR.
6	INSTALL NEW ISOLATION BALL VALVES WITHIN 24" OF EXISTING RISERS. INSTALL NEW CIRCUIT SETTER SET IN NEW 1/2" HOT WATER RECIRCULATION PIPING. LEA ISOLATION VALVES CLOSED UNTIL FUTURE SINK IS IN TO PREVENT DEAD-END RUNS.
7	PROVIDE ROUGH-IN FOR FUTURE SINK. ROUTE 1/2" HO COLD WATER UP FROM SECOND FLOOR AND 2" SANIT TO SECOND FLOOR.
8	2" SANITARY DOWN FROM MOP SINK ON THIRD FLOOP
9	INSTALL NEW MOP SINK AND ANCILLARY TRIM AS SCH MOP SINK SHALL HAVE HIGH QUALITY BASKET STRAIN AND ROD EXISTING SANITARY PIPING PRIOR TO CONN MOP SINK INTO EXISTING SYSTEM.
10	WHEN ROUTING, KEEP SANITARY PIPING AS HIGH AS
11	NEW ROOF TOP UNIT WILL BE INSTALLED. ANY VENT ROOFS WILL NEED TO BE RE-LOCATED. COORDINATE MECHANICAL CONTRACTOR AND ENSURE THE NEW L ARE GREATER THAN 12 FOOT FROM SUPPLY AIR OPE

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