



NORTHWESTERN UNIVERSITY

PROJECT NAME \_\_\_\_\_

JOB # \_\_\_\_\_

FOR: \_\_\_\_\_

ISSUED: 11/06/2017

1\$ M&3-%(&. & ) , T4(5; ) -++: B%&+6 0\$0 2")54 8()(878 34(5; ) -++6 & ) , 4&1() \* /%-" , %(.. , 0% +3&8 / - , 40.-+ 20% &3&548 - ) 3 4&%, ' &%-\$

2\$ M()(878 L&=-. S(C:- L-) \* 34 & ) , ' ( , 34 1&%9 20% %-<7(%- , .&=-. 50)3-)36 =73 )03 .-++ 34& ) 2"1/2 =9 / : ( )54\$

\$ M()(878 L-33-% S(C:- 1/: ( )54 20% )&8 - 02 7)(3+ (2 1(- ' ) \* , (+3&)5- ( + .-++ 34& ) 2: ( )54 -+6 1/2 ( )54 20% 1(- ' ) \* , (+3&)5-+ 7/ 30 72 ( )54 -+6 & ) , /%0/0%3(0)&3-.9 .&%\*-% .-33-%( ) \* 20% \*% -&3-% 1(- ' ) \* , (+3&)5-+\$ 1)5.7 , - ++50) , &%9 .-33-%( ) \* 3 ' 0"34% , + 30 34% - -"207%34+ 34- +(C- 02 /%()5(/&. .-33-%( ) \* \$

:\$ F&+3- ) -%+: S3&().-++"3- .-%(1-3+ 0% +-.2"3&/ / ( ) \* +5%- ' +\$

!\$ A , 4-+(1-: C0)3&53"39/ - / -% 8 & ) - ) 3 & , 4-+(1-6 508 / &3(=- ' (34 .&=-. & ) , ' (34 +7=+3%&3-\$

B\$ P.&+3(5 L&=-. + 20% E<7( / 8 - ) 3:

1\$ M&3-%(&. & ) , T4(5; ) -++: M7.3(&9-% 8 7.3(50.0%6 / .&+3(5 .&=-. + 20% 8 -54&)(5&. - ) \*%&1() \* 6 1/D ( )54 34(5; 6 & ) , 4&1() \* /%-" , %(.. , 40.-+ 20% &3&548 - ) 3 4&%, ' &%-\$

2\$ L-33-% C0.0%: W4(3-\$

\$ B&5; \*%07) , C0.0%: B.&5;\$

:\$ M&E(878 T- 8 / -%&37%-: A=-. 30 ' (34+3& ) , 3- 8 / -%&37%-+ 7/ 30 160 , - \* F\$

!\$ M()(878 L&=-. S(C:- L-) \* 34 & ) , ' ( , 34 1&%9 20% %-<7(%- , .&=-. 50)3-)36 =73 )03 .-++ 34& ) 2"1/2 =9 / : ( )54\$

6\$ M()(878 L-33-% S(C:- 1/: ( )54 20% )&8 - 02 7)(3+ (2 1(- ' ) \* , (+3&)5- ( + .-++ 34& ) 2: ( )54 -+6 1/2 ( )54 20% 1(- ' ) \* , (+3&)5-+ 7/ 30 72 ( )54 -+6 & ) , /%0/0%3(0)&3-.9 .&%\*-% .-33-%( ) \* 20% \*% -&3-% 1(- ' ) \* , (+3&)5-+\$ 1)5.7 , - ++50) , &%9 .-33-%( ) \* 3 ' 0"34% , + 30 34% - -"207%34+ 34- +(C- 02 /%()5(/&. .-33-%( ) \* \$

7\$ F&+3- ) -%+: S3&().-++"3- .-%(1-3+ 0% +-.2"3&/ / ( ) \* +5%- ' +\$

D\$ A , 4-+(1-: C0)3&53"39/ - / -% 8 & ) - ) 3 & , 4-+(1-6 508 / &3(=- ' (34 .&=-. & ) , ' (34 +7=+3%&3-\$

C\$ L&=-. C0)3-)3: 1)5.7 , - -<7( / 8 - ) 3) + D%&' ( ) \* , -+(\* )&3(0) 0% 7)(<7- -<7( / 8 - ) 3 ) 78=-% D%&' ( ) \* ) 78=-%+ ' 4-%- -<7( / 8 - ) 3 ( + ( ) , (5&3- , >/.&)+6 , -3&( +6 & ) , +54- , 7.-+76 / .7+ 34- S/ -5(2(5&3(0) S-53(0) ) 78=-% & ) , 3(3.- ' 4-%- -<7( / 8 - ) 3 ( + / -5(2(- , \$

1\$ L&=-. ( + 30 &.+0 ( ) , (5&3- &%-& & ) , 39/ - 02 +- %1(5- =-( ) \* /%01( , - , \$

&\$ F0% EE&8 / .- AHU " S-%1(5-+ 2.00%+ 1": -35\$

= \$ P HHW P78 / S-%1(5-+ =7( , ( ) \* / -%(8 -3-%

D\$ E<7( / 8 - ) 3 L&=-. S54- , 7.-: F0% -&54 (3- 8 02 -<7( / 8 - ) 3 30 =- .&=-. , 6 0) D"1/2"=9"11"( )54 =0) , /&/ -%\$ T&=7.&3- -<7( / 8 - ) 3 ( , - ) 3(2(5&3(0) ) 78=-% & ) , ( , - ) 3(29 D%&' ( ) \* ) 78=-%+ ' 4-%- -<7( / 8 - ) 3 ( + ( ) , (5&3- , >/.&)+6 , -3&( +6 & ) , +54- , 7.-+76 / .7+ 34- S/ -5(2(5&3(0) S-53(0) ) 78=-% & ) , 3(3.- ' 4-%- -<7( / 8 - ) 3 ( + / -5(2(- , \$ E<7( / 8 - ) 3 +54- , 7.- +4&.. =- ( ) 5.7 , - , ( ) 0/ -%&3(0) & ) , 8 &( ) 3- ) & ) 5- , &3&\$

2\$ WARNIN# SI#NS AND LABELS

A\$ M&3-%(&. & ) , T4(5; ) -++: M7.3(&9-% 8 7.3(50.0%6 / .&+3(5 .&=-. + 20% 8 -54&)(5&. - ) \*%&1() \* 6 1/D ( )54 34(5; 6 & ) , 4&1() \* /%-" , %(.. , 40.-+ 20% &3&548 - ) 3 4&%, ' &%-\$

B\$ L-33-% C0.0%: W4(3-\$

C\$ B&5; \*%07) , C0.0%: R- , \$

D\$ M&E(878 T- 8 / -%&37%-: A=-. 30 ' (34+3& ) , 3- 8 / -%&37%-+ 7/ 30 160 , - \* F\$



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\$2 PREPARATION

A\$ C.-& ) /(/() \* & ) , -<7(/ 8 - )3 +7%2&5-+ 02 +7=+3&)5-+ 34&3 507. , ( 8 /&(% =0) , 02 ( , - )3(2(5&3(0) , -1(5-+6 ( )5.7 , ( ) \* , (%36 0(.6 \*%-&+-6 %-.-&+- &\* - )3+6 & ) , ( )508 /&3(=- /%(8 -%+6 /&()3+6 & ) , -)5&/+7.&)3+\$

\$ EBUIPMENT LABEL INSTALLATION

A\$ I)+3&.. 0% / -%8 & ) - )3.9 2&+3- ) .&=-. + 0) -&54 8&f0% (3- 8 02 8 -54&)(5& .-<7(/ 8 - )3\$

B\$ L05&3- -<7(/ 8 - )3 .&=-. + ' 4-%- &55-++(=- & ) , 1(+(-.\$

\$: PIPE LABEL INSTALLATION

A\$ P(/() \* C0.0%"C0 , ( ) \*: P&()3() \* 02 /(/() \* (+ + / -5(2(- , ( ) D(1+(0) 0J S-53(0) GI)3-(0% P&()3() \*\$G

B\$ L05&3- /(/ - .&=-. + ' 4-%- /(/() \* (+ -E/0+- , 0% &=01- &55-++(=- 5-(.) \*+ ( ) 2() (+4- , + /&5-+K 8 &54() - %008 +K &55-++(=- 8 &()3- ) &)5- + /&5- + +754 &+ +4&23+6 37) ) - .+6 & ) , /.- )78 +K & ) , -E3-(0% -E/0+- , .05&3(0) + &+ 20..0 ' +:

1\$ N-% -&54 1&.1- & ) , 50)3%0. , -1(5-\$

2\$ N-% -&54 =%&)54 50) ) -53(0)6 -E5.7 , ( ) \* +40%3 3& ; -022+ 20% 2(E37\$

-2(-2(4 6 207( )0.355.07055(-)0.713207( 6.)00.715(149( ) -

2\$ N - - .787(5) -7(0)0.713207( ) -11.3583(0)0.713207

