



NORTHWESTERN UNIVERSITY

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

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

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

ISSUED: 12/12/2018

2" I'3,4\* + \$'32.# ( \$' \* 5.4'1 ( #+<4#5+'1), &'3,4\* ( #+<4#5+'1) 0.# 341.41) &' .12+#  
 %.#; \$' \* )47)1# \$1+ -#+- \$#\$1. '"  
 8" I'3,4\* + +,31#3\$, 32\$#31+#)13)"

B" P#. \*431 S32+\*4,+ : I' \*3\$1 ( 16-+), <4\$'1 ( >+), \$' \* &' )1\$, \$1. ' ,.3\$1. ' ) 76 #. .5 .0 +\$32  
 \$33+) ).#6 #+<4#+"

1" I\*+'1306 ,.3\$1. ' ) 4) ( #. .5 \*+)& ( '\$1. ' ) &' \*3\$1+\*"  
 2" I\*+'1306 \$33+) ).#3+ ) 4) ( \*+)& ( '\$1. ' ) &' \*3\$1+\*"

1"? INFORMATIONAL SUBMITTALS

A" S\$5 -,+ W\$##\$'16: F.# 5\$'40\$314#+) ) -+3\$, %##\$'16"

1"A CLOSEOUT SUBMITTALS

A" M\$'1+'\$'3+ D\$1\$: F.# \$33+) ).#3+ ) 1. &'3,4\* + &' 5\$'1+'\$'3+ 5\$'4\$,) "

1"8 WARRANTY

A" M\$'40\$314#+) S-+3\$, W\$##\$'16 0.# M##.#): M\$'40\$314#++ \$ (#+) 1. #+- \$# .# #+-, \$3+ 5##.#) 12\$1  
 0\$1, &' 5\$1+#\$,) .# %.#; 5\$' )2 - %12' ) -+300+\* %##\$'16 -+#. \*"

1" F\$1,4#+) &'3,4\* +, 741 \$#+ ' .1 ,&51+\* 1., /& )7,+ ) ,/+ # ) - . &,\$ ( + \*+0+31)"  
 2" W\$##\$'16 P+#.#: 1: 6+\$#) 0# .5 \*\$1+ .0 S47)1\$'1\$, C. 5 -,+1. '"

PART 2 - PRODUCTS

2"1 OWNER FURNISHED MATERIALS

A" O%'+# F4#')2+\* M\$1+#\$,): P\$-+# T.%+, D\$)-+')+#), S.\$- D\$)-+')+#), T.&+1 P\$-+#  
 D\$)-+')+#), \$' \* S\$'1\$#6 D\$)-.)\$,,

2"2 PERFORMANCE REBUIREMENTS

A" E,+31#3\$, C. 5 -. ' + '1), D+ /3+), \$' \* A33+) ).#3+): L&1+\* \$' \* , \$7+,+\* \$) \*+0&' +\* &' NFPA A0, 76  
 \$ <4\$,00+\* 1+)1 ( \$ (+ '36, \$' \* 5\$#; +\* 0.# &'1+'\*+\*, .3\$1. ' \$' \* \$- ,&3\$1. ' "

2"8 PUBLIC USE WASHROOM ACCESSORIES

A" S.4#3+ L&51\$1. ' ): O71\$ -47,3 4)+ %\$)2#..5 \$33+) ).#3+ ) 0# .5 )&' (+) .4#3+ 0# .5 )&' (+  
 5\$'40\$314#+"

B" S\$'1\$#6 N\$- ;&' /T\$5 - . ' V+ ' \* .#

1" B\$) ) .0 D+) ( ': B.7#3; W\$)2#..5 E<4- 5+'1, I'3'C B2A0? .# +<4\$,"  
 \$" M.4'1 ( : S4#0\$3+

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3" C.)1 .0 P#. \*431: F#++

C" ! # \$ 7 B \$ #:

1" M\$'40\$314#++): S47+=31 1. 3. 5 -, \$'3+ %12 #+<4#5+'1), -#./#\*+ -#.\*431) 76 . '+ .0 12+  
0.,.,%#(':

\$" AJW A#321+314#\$, P#. \*431)"

7" A5+#3\$' S-+31\$,1#+), I'3"

3" B.7#3; W\$)2#.. 5 E<4-5+'1, I'3"

\*" B#\$\*,+6 C.#- .#\$1\$. ' "

2" M.4 '1&' (: F,\$' (+) %12 3. '3+\$,+\* 0\$)1+'+#)"

8" M\$1+#\$,: S1\$&' ,+) )1++,, 0"0: &' 32 E1"8 5 5 F 12&3;"

\$" F&'&)2: S5 . . 12, N. " 9 0&'&)2 E)\$1&'F"

9" O41)&\*+ D&\$5+1+#: 1 1/2 &' 32+) E88 5 5 F"

:" C. '0&(4#\$1\$. ' \$' \* L+' (12: A) &' \*13\$1+\* . ' D#\$%&' ()"

D" M##.# U'&1:

1" B\$&) .0 D+)&(' : B.7#3; W\$)2#.. 5 E<4-5+'1, I'3" C.# )47+=31 1. 3. 5 -, \$'3+ %12  
#+<4#5+'1), -#./#\*+ -#.\*431) 6603(:) -11.71(1)413207(#)-Us11.3583(4)0.712601(3N002398) N0.356603(S

- 2" D+)3#-1. ': S1\$' ,+) )1++ ,)2+,0 %12 HI 7\$3; )-,)\$2" L+' (12: J&' )+#1 ,+' (12 &' &' 32+) 2+#+K J)++ \*\$%&' ( )K"
- 8" D+-12: J&' )+#1 \*+-12 &' &' 32+) 2+#+K J)++ \*\$%&' ( )K"
- 9" M\$1+##\$, \$' \* F&' &' 2: T6-+ 809 )1\$&' ,+) )1++ , %12 )1\$&' 0&' &' 2" A., %+, \*+\* 3.' )1#431&' . 'C +D- . )+\* )4#0\$3+) )2\$,, 2\$/+ )\$1&' 0&' &' 2"
- \$" S2+,0 )2\$,, 7+ 18 (\$4(+, %12 8/9L #+14# ' +\* (+), \$' \* )2\$,, 2\$/+ 0# . '1 +\* (+ 2+5 5 +\* 0.# )\$0+16"
- 7" B#\$3;+1) )2\$,, 7+ 1? (\$4(+, %+, \*+\* 1. 4' \*+ #)&\*+ . 0 )2+,0"

2"9 PUBLIC USE SHOWER ROOM ACCESSORIES

A" S.4#3+ L&5 &' 1\$1&' . ': O71\$&' -47, &' 3 4)+ )2. %+# #. . 5 \$33+) . #&+) 0# . 5 )&' (,+ ) . 4#3+ 0# . 5 )&' (,+ 5 \$' 40\$314#+#"

B" S2. %+# C4#1\$&' R. \*:

- 1" B\$&' . 0 D+)&' (': B. 7#&' 3; W\$)2# . . 5 E<4&- 5+' 1, I' 3" C B 20A . # )47-+31 1. 3. 5 -,&' 3+ %12 #+<4&#+5+' 1), -# . /&' \*+ -# . \* 431) 76 . ' + . 0 12+ 0. . , . %&' (':  
 \$" AJW A#32&' 1+314#\$, P# . \* 431)"  
 7" A5+##3\$' S-+3&' \$, &' +), I' 3"  
 3" B. 7#&' 3; W\$)2# . . 5 E<4&- 5+' 1, I' 3"  
 \*" B#\$\* ,+6 C. # - . # \$1&' . ' "

- 2" D+)3#-1. ': 1 &' 32 E2: "9 5 5 F ODC 0\$7#&' 3\$1+\* 0# . 5 ' . 5 &' \$, 0"08A: &' 32 E0"G: 5 5 F 12&' 3; )1\$&' ,+) )1++,"
- 8" M. 4' 1&' ( F, \$' (+): S1\$&' ,+) )1++ , 0, \$' (+) \*+)&' (+\* 0. # 3. ' 3+ \$, +\* 0\$)1+' + #)"
- 9" F&' &' 2: S1\$&' ,+) )1++ , N. " 9 0&' &' 2 E)\$1&' F"

C" S2. %+# C4#1\$&' :

- 1" M\$' 40\$314#+#): S47-314118713207 (#) - 5 . 00129 ("9)0. 713207 ( ) - 7 (: ) 0. 35 6301 5 ( ) - 7 (: ) 0. 35 6301 5 ( ) - 7 (: ) 0. . .

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\$" AJW A#321+314#\$, P#. \*431)"

7" A5+#3\$' S-+3i\$,1i+), I'3"

3" B.7#3; W\$)2#..5 E<4i-5+'1, I'3"

\*" B#\$\*,+6 C.#-.#\$1i.1"

2" D+)3#i-1i. ': R+/#)i7,+ 0., \*i' ( )2.%+# )+\$1 )2\$, 2\$/+ \$ 0#\$5+ 3. ')1#431+\* .0)"3+ )+ 3

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8" L+' (12: 89 &'32+)"  
9" H.;): F.4#"  
:" M.-/B#. .5 H., \*+#): T2##+, )-#&' ( ,. \$\*+\*, #477+# 2\$, 3\$5 16-+ "  
?" M\$1+#\$, \$' \* F&'&)2: S1\$&' ,+) )1++., N." 9 0&'&)2 E)\$1&' F"  
\$" S2+,0: N.1 ,+) )2\$' ' .5&' \$, 0"0: &'32 E1"8 5 5 F 12&3; )1\$&' ,+) )1++,"

2"G MATERIALS

- A" S1\$&' ,+) S1++,: ASTM A ???, T6-+ 809, 0"081 &'32 E0"8 5 5 F 5&'&545 ' .5&' \$, 12&3; ' +) ) 4' ,+))  
.12+##%&) + &' \*&3\$1+\*"
- B" B#&)): ASTM B 1G, 0,\$1 -#. \*431)C ASTM B 1?/B 1?M, #. \*), )2\$-+), 0.#(&' ( ), \$' \* 0,\$1 -#. \*431)  
%&12 0&'&)2+\* +\* (+)C .# ASTM B 80, 3\$)1&' ( )"
- C" S1++ , S2++1: ASTM A 1008/A 1008M, D+)&' \$1&' . ' CS E3. , \* #. , +\* , 3. 5 5 +#3&\$, )1++ , F, 0"08? &' 32  
E0"G 5 5 F 5&'&545 ' .5&' \$, 12&3; ' +) )"
- D" ! \$,/\$' &>+\* S1++ , S2++1: ASTM A ? : 8/A ? : 8M, %&12 ! ?0 EQ180F 2.1 \*&- >&' 3 3 . \$1&' ( "
- E" ! \$,/\$' &>+\* S1++ , M. 4' 1&' ( D+//&3+): ASTM A 1 : 8/A 1 : 8M, 2.1 \*&- ( \$,/\$' &>+\* \$01+# 0\$7#&3\$1&' . "
- F" F\$)1+#+#): S3##% , 7. ,1) , \$' \* .12+# \*+//&3+ ) .0 )\$5+ 5\$1+#&\$, \$) \$33+)) .#6 4' &' \$' \* 1\$5 -+# \$' \*  
12+01 #+)&)1\$' 1 %2+##+ +D- . )+\* , \$' \* .0 ( \$,/\$' &>+\* )1++ , %2+##+ 3. '3+\$,+\*"
- !" C2#. 5 + P,\$1&' (: ASTM B 9:?, S+##/&3+ C. ' \*&1&' . ' N457+# SC 2 E5 . \*+##\$1+ )+##/&3+F"
- H" M&##.#): ASTM C 1:08, M&##.# ! ,&>&' ( B4\$,&16, 3,+## (,\$) 5&##.#), ' .5&' \$, ?"0 5 5 12&3; "

2"10 FABRICATION

- A" ! +'+##\$: F\$1+ /\$+\$' &1) , T dU868302( ) -7 ( ,752 (>) 5 .070149(2)0.713207 ( ) ] T J U 2599(1)0.356603( ) 0.35647( )

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C" !#\$7 B\$#): I')1\$,, 1. %12)1\$' \* \$ \* .%'%\$#\* ,.\$\* .0 \$1 ,+)\$1 2:0 ,70 E1112 NF, %2+' 1+)1+\* \$33.#\*1' ( 1. ASTM F 99?"

8"2 ADJUSTIN ! AND CLEANIN !

A" A\*=4)1 \$33+)) .#1+) 0.# 4'+ '3457+#+\* , ) 5 . .12 . -+#\$11. " R+- , \$3+ \*\$5\$(+\* .# \*+0+311/+ 1+5)"

B" R+5 ./+ 1+5 - .#\$6 , \$7+,) \$' \* -#.1+311/+ 3. \$11' ( )"

C" C,+ \$' \$' \* - .,1)2 +D- . )+\* )4#0\$3+ ) \$33.#\*1' ( 1. 5 \$' 40\$314#+#1) %11+ ' 1#4311. ' )"

"#\$ %& S" ' (1%# 10 2)00